

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
 Reference number: LACO1504024  
 Issue date: 4/17/2015 Revision date: 8/2/2022 Supersedes: 6/18/2015 Version: 2.1

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
 Trade name : Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
 Use of the substance/mixture : Temperature indicator

##### 1.2.2. Uses advised against

Restrictions on use : No data available

#### 1.3. Details of the supplier of the safety data sheet

LA-CO Industries Europe  
 Parc Industriel de la Plaine de l'Ain - Allée des Combes  
 01150 Blyes  
 France  
 T +33 474462323 - F +33 (0)4 74 46 23 29  
[info-europe@laco.com](mailto:info-europe@laco.com) - [www.markal-city.com](http://www.markal-city.com)

#### 1.4. Emergency telephone number

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887;  
 全国应急中心 0532 8388 9090

| EU Member State | Officieel adviesorgaan                                                                                                       | Adres                                                         | Noodnummer                         |
|-----------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------|
| AUSTRIA         | Vergiftungsinformationszentrale (Poisons Information Centre)                                                                 | Allgemeines Krankenhaus Waehringer<br>Geurtel 18-20 1090 Wien | +43 1 406 43 43                    |
| BELARUS         | The Belarus Republican Poisons Centre                                                                                        | Kizhevatova str. 58<br>Minsk 220115                           | +375 (0)17 201 9158                |
| BELGIUM         | Centre Anti-Poisons/Antigifcentrum<br>c/o Hôpital Central de la Base - Reine Astrid                                          | Rue Bruyn 1<br>B -1120 Bruxelles/Brussel                      | +32 70 245 245                     |
| BULGARIA        | Национален токсикологичен информационен център<br>National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov" | 21 Totleben Boulevard<br>1606 SOFIA                           | +359 2 9154 409                    |
| CROATIA         | Poisons Control Centre<br>Institute of Medical Research & Occupational Health                                                | Ksaverska Cesta 2<br>P.O. Box 291<br>HR-10000 Zagreb          | +385 1 234 8342                    |
| CZECH REPUBLIC  | Toxikologické informační středisko<br>Clinic For Occupational Medicine, 1st Medical Faculty, Charles University              | Na Bojišti 1<br>120 00 Praha 2                                | +42 2 2491 9293<br>+42 2 2491 5402 |
| DENMARK         | Giftlinjen<br>Bispebjerg Hospital                                                                                            | Bispebjerg Bakke 23, 60, 1<br>DK-2400 København NV            | +45 82 12 12 12<br>+45 35 31 55 55 |
| ESTONIA         | Mürgistusteabekeskus                                                                                                         | Gonsiori 29 15027 Tallinn                                     | +372 626 93 90                     |
| FINLAND         | Myrkytystietokeskus                                                                                                          | P.O.B 340 (Haartmaninkatu 4)<br>HUS<br>SF - 00029 Helsinki    | +358 9 471 977                     |
| FRANCE          | ORFILA                                                                                                                       |                                                               | +33 1 45 42 59 59                  |
| GERMANY         | Berliner Betrieb für Zentrale Gesundheitliche Aufgaben                                                                       | Oranienburger Strasse 285 13437 Berlin                        | +49 30 19240                       |
| GERMANY         | Informations und Beratungszentrum für Vergiftungsfälle                                                                       | Kirrberger Straße, Gebäude 9 D-66421<br>Homburg/Saar          | +49 6841 19240                     |
| GERMANY         | Beratungstelle bei Vergiftungen, Klinische Toxikologie und Beratungsstelle bei Vergiftungen                                  | Langenbeckstrasse 1 55131 Mainz                               | +49 6131 19240                     |
| GREECE          | Poisons Information Centre                                                                                                   | 11527 Athens                                                  | +30 10 779 3777                    |
| HUNGARY         | Országos Kémiai Biztonsági Intézet (National                                                                                 | 1437 Budapest PO Box 839                                      | +36 80 20 11 99                    |

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| EU Member State | Officieel adviesorgaan                                                                                                                                                   | Adres                                                                    | Noodnummer                                                     |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------|
|                 | Institute of Chemical Safety)<br>Egészségügyi Toxikológiai Tájékoztató Szolgálat<br>(Health Toxicological Information Service)                                           | 1097 Budapest, Nagyvárad tér 2                                           |                                                                |
| ICELAND         | Eitrunarmiðstöðin                                                                                                                                                        | Eitrunarmiðstöðin 108 Reykjavík                                          | +354 543 22 22                                                 |
| IRELAND         | National Poisons Information Centre                                                                                                                                      | Beaumont Hospital PO Box 1297<br>Beaumont Road 9 Dublin                  | +353 1 809 2166                                                |
| ITALY           | Centro Antiveleni di Bergamo<br>Azienda Ospedaliera Papa Giovanni XXII                                                                                                   | Piazza OMS - Organizzazione<br>Mondiale della Sanità, 1<br>24127 Bergamo | 800 88 33 00                                                   |
| ITALY           | Centro Antiveleni di Milano<br>Ospedale Niguarda Ca' Granda                                                                                                              | Piazza Ospedale Maggiore 3<br>20162 Milano                               | +39 02 6610 1029                                               |
| ITALY           | Centro Antiveleni di Roma<br>CAV Policlinico "A. Gemelli", Dipartimento di<br>Tossicologia Clinica<br>Universita Cattolica del Sacro Cuore                               | Largo Agostino Gemelli, 8<br>00168 Roma                                  | +39 06 305 4343                                                |
| ITALY           | Centro Antiveleni di Roma<br>CAV Policlinico "Umberto I", Università di Roma                                                                                             | Viale del Policlinico, 155<br>00161 Roma                                 | +39 06 4997 8000                                               |
| ITALY           | Centro Antiveleni di Firenze<br>Az. Osp. "Careggi" U.O. Tossicologia Medica,<br>S.O.D. di Tossicologia Clinica                                                           | Largo Brambilla, 3<br>50134 Firenze                                      | +39 055 794 7819                                               |
| ITALY           | Centro Antiveleni di Pavia<br>CAV Centro Nazionale di Informazione<br>Tossicologica, IRCCS Fondazione Maugeri                                                            | Via Salvatore Maugeri, 10<br>27100 Pavia                                 | +39 03 822 4444                                                |
| ITALY           | Centro Antiveleni di Roma<br>CAV "Osp. Pediatrico Bambino Gesù" Dip.<br>Emergenza e Accettazione DEA                                                                     | Piazza Sant'Onofrio, 4<br>00165 Roma                                     | +39 06 6859 3726                                               |
| ITALY           | Centro Antiveleni di Foggia<br>Az. Osp. Univ. Foggia                                                                                                                     | V.le Luigi Pinto, 1<br>71122 Foggia                                      | +39 800 183 459                                                |
| ITALY           | Centro Antiveleni di Napoli<br>Az. Osp. "A. Cardarelli"                                                                                                                  | Via A. Cardarelli, 9<br>80131 Napoli                                     | +39 081 54 53 333                                              |
| ITALY           | Centro Antiveleni di Verona<br>Azienda Ospedaliera Integrata Verona                                                                                                      | Piazzale Aristide Stefani, 1<br>37126 Verona                             | +39 800 011 858                                                |
| ITALY           | CAVp "Osp. Pediatrico Bambino Gesù"                                                                                                                                      | Piazza Sant'Onofrio, 4<br>00165 Roma                                     | 06 68593726                                                    |
| ITALY           | Az. Osp. Univ. Foggia                                                                                                                                                    | V.le Luigi Pinto, 1<br>71122 Foggia                                      | 0881-732326                                                    |
| LATVIA          | Valsts Toksikoloģijas centra Saindēšanās un<br>zāļu informācijas centrs                                                                                                  | 2 Hipocrate Street LV 1038 Riga                                          | +371 67 04 24 73                                               |
| LITHUANIA       | Apsinuodijimų kontrolės ir informacijos biuras                                                                                                                           | Siltnamiu 29 2043 Vilnius                                                | +370 5 236 20 52/+370 687<br>53 378                            |
| MALTA           | Medicines & Poisons Info Office                                                                                                                                          | Mater Dei Hospital, Msida MSD 2090<br>Malta                              | 25450000                                                       |
| NETHERLANDS     | Nationaal Vergiftigingen Informatie Centrum<br>National Institute for Public Health and the<br>Environment, NB this service is only available to<br>health professionals | Huispostnummer B.00.118, PO Box<br>85500<br>3508 GA Utrecht              | +31 30 274 88 88                                               |
| PORTUGAL        | Centro de Informação Antivenenos<br>Instituto Nacional de Emergência Médica (INEM)                                                                                       | Rua Almirante Barroso, 36<br>1000-013 Lisboa                             | 808 250 143 (for use only in<br>Portugal),<br>+351 21 330 3284 |
| ROMANIA         | Biroul pentru Regulamentul Sanitar International<br>si Informare Toxicologica                                                                                            | Str. Dr. Leonte Anastasievici Nr.1-3,<br>Sector 5<br>50463 Bucuresti     | +40 21 318 36 06                                               |
| SLOVAKIA        | Národné toxikologické informačné centrum<br>University Hospital Bratislava                                                                                               | Limbová 5<br>833 05 Bratislava                                           | +421 2 54 77 4 166                                             |
| SPAIN           | Servicio de Información Toxicológica<br>Instituto Nacional de Toxicología, Departamento<br>de Madrid                                                                     | Calle Luis Cabrera 9<br>E-28002 Madrid                                   | +34 91 562 04 20                                               |
| SWEDEN          | Giftinformationscentralen<br>Swedish Poisons Information Centre, Karolinska<br>Hospital                                                                                  | Box 60 500<br>SE-171 76 Stockholm                                        | +46 8 33 12 31<br>(International) 112 (National)               |
| SWITZERLAND     | Centre Suisse d'Information Toxicologique                                                                                                                                | Freiestrasse 16 Postfach CH-8028<br>Zurich                               | +41 44 251 51 51<br>(International) 145 (National)             |

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2 H319

Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

No data available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP: Classification, Labelling, Packaging.)



GHS07

Signal word (CLP) : Warning  
Hazard statements (CLP) : H319 - Causes serious eye irritation.  
Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name                                                                                                   | Product identifier                                                                                 | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------|
| adipic acid<br>substance with national workplace exposure limit(s)<br>(DK, FI, DE, LV, PL, PT, SI, ES) | CAS-No.: 124-04-9<br>EC-No.: 204-673-3<br>EC Index-No.: 607-144-00-9                               | 0 - 100 | Eye Irrit. 2, H319                                              |
| myristic acid                                                                                          | CAS-No.: 544-63-8<br>EC-No.: 208-875-2                                                             | 0 - 90  | Eye Irrit. 2, H319                                              |
| sodium carbonate                                                                                       | CAS-No.: 497-19-8<br>EC-No.: 207-838-8<br>EC Index-No.: 011-005-00-2<br>REACH-no: 01-2119485498-19 | 0 - 20  | Acute Tox. 4 (Inhalation:dust,mist), H332<br>Eye Irrit. 2, H319 |
| cetyl alcohol<br>substance with national workplace exposure limit(s)<br>(DE, SI)                       | CAS-No.: 36653-82-4<br>EC-No.: 253-149-0                                                           | 0 - 15  | Not classified                                                  |
| Ethyl cellulose<br>substance with national workplace exposure limit(s)<br>(BE, FR, IE, ES)             | CAS-No.: 9004-57-3<br>EC-No.: 232-674-9                                                            | 0 - 10  | Not classified                                                  |

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Name                                                                                                                                                                                                   | Product identifier                        | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------|-----------------------------------------------------------------|
| Iron oxide red<br>substance with national workplace exposure limit(s)<br>(AT, BE, DK, FI, FR, HU, IE, LT, PL, PT, SK, ES, SE)                                                                          | CAS-No.: 1309-37-1<br>EC-No.: 215-168-2   | < 0.2   | Aquatic Chronic 2, H411                                         |
| 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32<br>copper<br>substance with national workplace exposure limit(s)<br>(LV)                                                                                  | CAS-No.: 147-14-8<br>EC-No.: 205-685-1    | < 0.2   | Not classified                                                  |
| Limestone<br>substance with national workplace exposure limit(s)<br>(BE, CZ, HU, IE, ES)                                                                                                               | CAS-No.: 1317-65-3<br>EC-No.: 215-279-6   | < 0.1   | Not classified                                                  |
| Silicon dioxide (cristobalite)<br>substance with national workplace exposure limit(s)<br>(AT, BE, DK, FI, FR, HU, IE, LT, NL, PL, PT, SK, ES, SE); substance with a Community workplace exposure limit | CAS-No.: 14808-60-7<br>EC-No.: 238-878-4  | < 0.1   | Carc. 1A, H350                                                  |
| Carbon black<br>substance with national workplace exposure limit(s)<br>(BE, CZ, DK, FI, FR, HU, IE, PL, PT, ES, SE)                                                                                    | CAS-No.: 1333-86-4<br>EC-No.: 215-609-9   | < 0.1   | STOT RE Not classified                                          |
| Silicon dioxide (amorphous)<br>substance with national workplace exposure limit(s)<br>(AT, CZ, FI, DE, IE, LV, PL, SI, ES)                                                                             | CAS-No.: 112926-00-8<br>EC-No.: 231-545-4 | < 0.001 | Not classified                                                  |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.                                                                        |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                                                                                                                 |
| First-aid measures after skin contact | : Gently wash with plenty of soap and water.                                                                                                                                     |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Do NOT induce vomiting. Get medical advice/attention.                                                                                                                          |

### 4.2. Most important symptoms and effects, both acute and delayed

|                                    |                                  |
|------------------------------------|----------------------------------|
| Symptoms/effects after eye contact | : Causes serious eye irritation. |
|------------------------------------|----------------------------------|

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                                        |
|--------------------------------|--------------------------------------------------------|
| Suitable extinguishing media   | : Foam. Dry powder. Carbon dioxide. Sand. Water spray. |
| Unsuitable extinguishing media | : None known.                                          |

### 5.2. Special hazards arising from the substance or mixture

|                                                  |                                                                                               |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Fire hazard                                      | : No specific fire or explosion hazard. Burning produces irritating, toxic and noxious fumes. |
| Hazardous decomposition products in case of fire | : Thermal decomposition generates : Carbon dioxide. Carbon monoxide. Mixture of hydrocarbons. |

### 5.3. Advice for firefighters

|                                |                                                                                                                                                                                                 |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.            |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. EN469. |

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid creating or spreading dust. Avoid contact with skin and eyes.

##### 6.1.1. For non-emergency personnel

Protective equipment : Chemical goggles or safety glasses. Dust impervious gloves.

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Chemical goggles or safety glasses. Dust impervious gloves.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Avoid generating dust. Contain and collect as any solid.

Methods for cleaning up : Minimise generation of dust. On land, sweep or shovel into suitable containers.

#### 6.4. Reference to other sections

Section 13: Disposal information. Section 7: Safe handling. Section 8: Personal protective equipment.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

Incompatible products : Strong oxidizers. Strong bases.

Prohibitions on mixed storage : Keep away from incompatible materials.

Storage area : Store in dry, cool, well-ventilated area.

#### 7.3. Specific end use(s)

Temperature indicator.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

| cetyl alcohol (36653-82-4)                               |                                             |
|----------------------------------------------------------|---------------------------------------------|
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |                                             |
| Occupational exposure limit value (mg/m <sup>3</sup> )   | 200 mg/m <sup>3</sup>                       |
| Occupational exposure limit value (ppm)                  | 20 ppm                                      |
| Limitation of exposure peaks (mg/m <sup>3</sup> )        | 200 mg/m <sup>3</sup>                       |
| Limitation of exposure peaks (ppm)                       | 20 ppm                                      |
| <b>Slovenia - Occupational Exposure Limits</b>           |                                             |
| Local name                                               | heksadekan-1-ol                             |
| OEL TWA                                                  | 200 mg/m <sup>3</sup>                       |
| OEL TWA [ppm]                                            | 20 ppm                                      |
| OEL STEL                                                 | 200 mg/m <sup>3</sup>                       |
| OEL STEL [ppm]                                           | 20 ppm                                      |
| Regulatory reference                                     | Uradni list RS, št. 72/2021 z dne 11.5.2021 |
| <b>Iron oxide red (1309-37-1)</b>                        |                                             |

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Iron oxide red (1309-37-1)                      |                                                                                                                                                        |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Austria - Occupational Exposure Limits</b>   |                                                                                                                                                        |
| MAK [mg/m <sup>3</sup> ]                        | 10 mg/m <sup>3</sup> (einatembare Fraktion)<br>5 mg/m <sup>3</sup> (aveolengängige Fraktion)                                                           |
| MAK Short time value [mg/m <sup>3</sup> ]       | 20 mg/m <sup>3</sup> (einatembare Fraktion) max. 2x60 min./Schicht<br>10 mg/m <sup>3</sup> (aveolengängige Fraktion) max. 2x60 min./Schicht            |
| <b>Belgium - Occupational Exposure Limits</b>   |                                                                                                                                                        |
| Limit value [mg/m <sup>3</sup> ]                | 5 mg/m <sup>3</sup>                                                                                                                                    |
| Limit value [ppm]                               | 2 ppm                                                                                                                                                  |
| Remark (BE)                                     | (trioxyde de; fumées, en Fe)                                                                                                                           |
| <b>Denmark - Occupational Exposure Limits</b>   |                                                                                                                                                        |
| Local name                                      | Jernoxid                                                                                                                                               |
| Grænseværdi (8 timer) (mg/m <sup>3</sup> )      | 3.5 mg/m <sup>3</sup> beregnet som Fe                                                                                                                  |
| Grænseværdi (STEL) (mg/m <sup>3</sup> )         | 7 mg/m <sup>3</sup>                                                                                                                                    |
| Regulatory reference                            | BEK nr 2203 af 29. november 2021                                                                                                                       |
| <b>Finland - Occupational Exposure Limits</b>   |                                                                                                                                                        |
| Local name                                      | Rautaoksidi, huurut                                                                                                                                    |
| HTP-arvo (8h) (mg/m <sup>3</sup> )              | 5 mg/m <sup>3</sup> Fe                                                                                                                                 |
| Regulatory reference                            | HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)                                                                                              |
| <b>France - Occupational Exposure Limits</b>    |                                                                                                                                                        |
| Local name                                      | Fer (Trioxyde de di-, fumées), en Fe                                                                                                                   |
| VME [mg/m <sup>3</sup> ]                        | 5 mg/m <sup>3</sup>                                                                                                                                    |
| Note (FR)                                       | Valeurs recommandées/admises                                                                                                                           |
| Regulatory reference                            | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)                                                                                           |
| <b>Hungary - Occupational Exposure Limits</b>   |                                                                                                                                                        |
| Local name                                      | VAS(III)-OXID (Fe-ra számítva)                                                                                                                         |
| AK-érték                                        | 4 mg/m <sup>3</sup> respirábilis frakció                                                                                                               |
| Remark                                          | T (Azok az anyagok, amelyek egészségkárosító hatása TARTÓS expozíciót követően jelentkezik)                                                            |
| Regulatory reference                            | 5/2020. (II. 6.) ITM rendelet - A kémiai kórosító tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről                     |
| <b>Ireland - Occupational Exposure Limits</b>   |                                                                                                                                                        |
| OEL (8 hours ref) (mg/m <sup>3</sup> )          | 5 mg/m <sup>3</sup> (Iron oxide, fume as Fe)<br>10 mg/m <sup>3</sup> (Rouge total inhalable dust)<br>4 mg/m <sup>3</sup> (Rouge total respirable dust) |
| OEL (15 min ref) (mg/m <sup>3</sup> )           | 10 mg/m <sup>3</sup> (Iron oxide, fume as Fe)                                                                                                          |
| <b>Lithuania - Occupational Exposure Limits</b> |                                                                                                                                                        |
| IPRV (mg/m <sup>3</sup> )                       | 3.5 mg/m <sup>3</sup>                                                                                                                                  |
| <b>Poland - Occupational Exposure Limits</b>    |                                                                                                                                                        |
| Local name                                      | Tlenek żelaza (III)                                                                                                                                    |
| NDS (mg/m <sup>3</sup> )                        | 5 mg/m <sup>3</sup> w przeliczeniu na Fe: frakcja wdychalna                                                                                            |

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Iron oxide red (1309-37-1)                 |                                                                                                                                                                                                                                                                                                    |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | 2.5 mg/m <sup>3</sup> w przeliczeniu na Fe: frakcja respirabilna                                                                                                                                                                                                                                   |
| NDSCh (mg/m <sup>3</sup> )                 | 5 mg/m <sup>3</sup> w przeliczeniu na Fe: frakcja respirabilna<br>10 mg/m <sup>3</sup> w przeliczeniu na Fe: frakcja wdychalna                                                                                                                                                                     |
| Remark                                     | Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej. |
| Regulatory reference                       | Dz. U. 2018 poz. 1286                                                                                                                                                                                                                                                                              |
| Portugal - Occupational Exposure Limits    |                                                                                                                                                                                                                                                                                                    |
| Local name                                 | Óxido de ferro                                                                                                                                                                                                                                                                                     |
| OEL TWA (mg/m <sup>3</sup> )               | 5 mg/m <sup>3</sup> R (Fração respirável)                                                                                                                                                                                                                                                          |
| Remark                                     | A4 (Agente não classificável como carcinogénico no Homem)                                                                                                                                                                                                                                          |
| Regulatory reference                       | Norma Portuguesa NP 1796:2014                                                                                                                                                                                                                                                                      |
| Slovakia - Occupational Exposure Limits    |                                                                                                                                                                                                                                                                                                    |
| Local name                                 | Oxidy železa, dymy (ako Fe)                                                                                                                                                                                                                                                                        |
| NPHV (priemerná) (mg/m <sup>3</sup> )      | 1.5 mg/m <sup>3</sup> respirabilná frakcia<br>4 mg/m <sup>3</sup> inhalovateľná frakcia                                                                                                                                                                                                            |
| Regulatory reference                       | Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)                                                                                                                                                                                                                                                |
| Spain - Occupational Exposure Limits       |                                                                                                                                                                                                                                                                                                    |
| Local name                                 | Óxido de hierro (III)                                                                                                                                                                                                                                                                              |
| VLA-ED (mg/m <sup>3</sup> )                | 5 mg/m <sup>3</sup> polvo y humos, como Fe                                                                                                                                                                                                                                                         |
| Notes                                      | (Óxido de hierro(III) (polvo y humos), como Fe)                                                                                                                                                                                                                                                    |
| Regulatory reference                       | Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT                                                                                                                                                                                                                      |
| Sweden - Occupational Exposure Limits      |                                                                                                                                                                                                                                                                                                    |
| Local name                                 | Järnoxid (som Fe)                                                                                                                                                                                                                                                                                  |
| Nivågränsvärde (NVG) (mg/m <sup>3</sup> )  | 3.5 mg/m <sup>3</sup> respirabel fraktion                                                                                                                                                                                                                                                          |
| Remark                                     | 3 (Den respirabla fraktionen är de inhalerbara partiklar som når längst ner i luftvägarna, till alveolerna i lungorna)                                                                                                                                                                             |
| Regulatory reference                       | Hygieniska gränsvärden (AFS 2018:1)                                                                                                                                                                                                                                                                |
| Norway - Occupational Exposure Limits      |                                                                                                                                                                                                                                                                                                    |
| Local name                                 | Jern(III)oksid (beregnet som Fe)                                                                                                                                                                                                                                                                   |
| Grenseverdier (AN) (mg/m <sup>3</sup> )    | 3 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                |
| Regulatory reference                       | FOR-2021-06-28-2248                                                                                                                                                                                                                                                                                |
| Switzerland - Occupational Exposure Limits |                                                                                                                                                                                                                                                                                                    |
| VME [mg/m <sup>3</sup> ]                   | 3 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                |
| Remark                                     | (alveolengängiger Staub)                                                                                                                                                                                                                                                                           |
| Ethyl cellulose (9004-57-3)                |                                                                                                                                                                                                                                                                                                    |
| Belgium - Occupational Exposure Limits     |                                                                                                                                                                                                                                                                                                    |
| Limit value [mg/m <sup>3</sup> ]           | 10 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                               |
| France - Occupational Exposure Limits      |                                                                                                                                                                                                                                                                                                    |

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| <b>Ethyl cellulose (9004-57-3)</b>                       |                                                                                                                                                                                                                                                            |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VME [mg/m <sup>3</sup> ]                                 | 10 mg/m <sup>3</sup>                                                                                                                                                                                                                                       |
| <b>Ireland - Occupational Exposure Limits</b>            |                                                                                                                                                                                                                                                            |
| OEL (8 hours ref) (mg/m <sup>3</sup> )                   | 10 mg/m <sup>3</sup> total inhalable dust<br>4 mg/m <sup>3</sup> respirable dust                                                                                                                                                                           |
| OEL (15 min ref) (mg/m <sup>3</sup> )                    | 20 mg/m <sup>3</sup> total inhalable dust                                                                                                                                                                                                                  |
| <b>Spain - Occupational Exposure Limits</b>              |                                                                                                                                                                                                                                                            |
| VLA-ED (mg/m <sup>3</sup> )                              | 10 mg/m <sup>3</sup>                                                                                                                                                                                                                                       |
| Notes                                                    | inhalable aerosol                                                                                                                                                                                                                                          |
| <b>Switzerland - Occupational Exposure Limits</b>        |                                                                                                                                                                                                                                                            |
| VME [mg/m <sup>3</sup> ]                                 | 3 mg/m <sup>3</sup>                                                                                                                                                                                                                                        |
| Remark                                                   | (respirable aerosol)                                                                                                                                                                                                                                       |
| <b>adipic acid (124-04-9)</b>                            |                                                                                                                                                                                                                                                            |
| <b>Denmark - Occupational Exposure Limits</b>            |                                                                                                                                                                                                                                                            |
| Local name                                               | Adipinsyre                                                                                                                                                                                                                                                 |
| Grænseværdi (8 timer) (mg/m <sup>3</sup> )               | 5 mg/m <sup>3</sup>                                                                                                                                                                                                                                        |
| Regulatory reference                                     | BEK nr 2203 af 29. november 2021                                                                                                                                                                                                                           |
| <b>Finland - Occupational Exposure Limits</b>            |                                                                                                                                                                                                                                                            |
| Local name                                               | Adipiinihappo                                                                                                                                                                                                                                              |
| HTP-arvo (8h) (mg/m <sup>3</sup> )                       | 5 mg/m <sup>3</sup>                                                                                                                                                                                                                                        |
| Regulatory reference                                     | HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)                                                                                                                                                                                                  |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |                                                                                                                                                                                                                                                            |
| Occupational exposure limit value (mg/m <sup>3</sup> )   | 2 mg/m <sup>3</sup> (E)                                                                                                                                                                                                                                    |
| Peak exposure limitation factor                          | 2(l)                                                                                                                                                                                                                                                       |
| Remark                                                   | DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden |
| Regulatory reference                                     | TRGS900                                                                                                                                                                                                                                                    |
| <b>Latvia - Occupational Exposure Limits</b>             |                                                                                                                                                                                                                                                            |
| Local name                                               | Adipīnskābe (1,4-butāndikarbonskābe)                                                                                                                                                                                                                       |
| OEL TWA                                                  | 4 mg/m <sup>3</sup>                                                                                                                                                                                                                                        |
| Regulatory reference                                     | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325                                                                                                                                                                                                 |
| <b>Poland - Occupational Exposure Limits</b>             |                                                                                                                                                                                                                                                            |
| Local name                                               | Kwas adypinowy pyły                                                                                                                                                                                                                                        |
| NDS (mg/m <sup>3</sup> )                                 | 5 mg/m <sup>3</sup>                                                                                                                                                                                                                                        |
| NDSCh (mg/m <sup>3</sup> )                               | 10 mg/m <sup>3</sup>                                                                                                                                                                                                                                       |
| Remark                                                   | Fracja wdychalna – frakcja aerozolu wnika przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.                                                                                                                    |
| Regulatory reference                                     | Dz. U. 2018 poz. 1286                                                                                                                                                                                                                                      |
| <b>Portugal - Occupational Exposure Limits</b>           |                                                                                                                                                                                                                                                            |



# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| <b>adipic acid (124-04-9)</b>                                         |                                                                                                                                    |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Local name                                                            | Ácido adípico                                                                                                                      |
| OEL TWA (mg/m <sup>3</sup> )                                          | 5 mg/m <sup>3</sup>                                                                                                                |
| Regulatory reference                                                  | Norma Portuguesa NP 1796:2014                                                                                                      |
| <b>Slovenia - Occupational Exposure Limits</b>                        |                                                                                                                                    |
| Local name                                                            | adipinska kislina                                                                                                                  |
| OEL TWA                                                               | 2 mg/m <sup>3</sup>                                                                                                                |
| OEL STEL                                                              | 4 mg/m <sup>3</sup>                                                                                                                |
| Remark                                                                | Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)                                   |
| Regulatory reference                                                  | Uradni list RS, št. 72/2021 z dne 11.5.2021                                                                                        |
| <b>Spain - Occupational Exposure Limits</b>                           |                                                                                                                                    |
| Local name                                                            | Ácido adípico                                                                                                                      |
| VLA-ED (mg/m <sup>3</sup> )                                           | 5 mg/m <sup>3</sup>                                                                                                                |
| Regulatory reference                                                  | Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT                                                      |
| <b>29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper (147-14-8)</b> |                                                                                                                                    |
| <b>Latvia - Occupational Exposure Limits</b>                          |                                                                                                                                    |
| Local name                                                            | Vara ftalocianīns                                                                                                                  |
| OEL TWA                                                               | 5 mg/m <sup>3</sup>                                                                                                                |
| Regulatory reference                                                  | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92) |
| <b>Limestone (1317-65-3)</b>                                          |                                                                                                                                    |
| <b>Belgium - Occupational Exposure Limits</b>                         |                                                                                                                                    |
| Limit value [mg/m <sup>3</sup> ]                                      | 10 mg/m <sup>3</sup>                                                                                                               |
| Remark (BE)                                                           | (carbonate de)                                                                                                                     |
| <b>Czech Republic - Occupational Exposure Limits</b>                  |                                                                                                                                    |
| Local name                                                            | Vápenec, mramor                                                                                                                    |
| Expoziční limity (PEL) (mg/m <sup>3</sup> )                           | 10 mg/m <sup>3</sup>                                                                                                               |
| Remark                                                                | Prachy s převážně nespecifickým účinkem.                                                                                           |
| Regulatory reference                                                  | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)                                                                              |
| <b>Hungary - Occupational Exposure Limits</b>                         |                                                                                                                                    |
| Local name                                                            | KALCIUM-KARBONÁT                                                                                                                   |
| AK-érték                                                              | 10 mg/m <sup>3</sup>                                                                                                               |
| Remark                                                                | N (Irritáló anyagok, egyszerű fajtógázok, csekély egészségkárosító hatással bíró anyagok)                                          |
| Regulatory reference                                                  | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről   |
| <b>Ireland - Occupational Exposure Limits</b>                         |                                                                                                                                    |
| OEL (8 hours ref) (mg/m <sup>3</sup> )                                | 10 mg/m <sup>3</sup> total inhalable dust<br>4 mg/m <sup>3</sup> respirable dust                                                   |
| <b>Spain - Occupational Exposure Limits</b>                           |                                                                                                                                    |

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Limestone (1317-65-3)                              |                                                                                                                                                   |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| VLA-ED (mg/m <sup>3</sup> )                        | 10 mg/m <sup>3</sup>                                                                                                                              |
| Notes                                              | inhalable aerosol                                                                                                                                 |
| Switzerland - Occupational Exposure Limits         |                                                                                                                                                   |
| VME [mg/m <sup>3</sup> ]                           | 3 mg/m <sup>3</sup>                                                                                                                               |
| Remark                                             | (respirable aerosol)                                                                                                                              |
| Silicon dioxide (cristobalite) (14808-60-7)        |                                                                                                                                                   |
| EU - Indicative Occupational Exposure Limit (IOEL) |                                                                                                                                                   |
| Local name                                         | Silica crystalline (Quartz)                                                                                                                       |
| IOEL TWA                                           | 0.05 mg/m <sup>3</sup> (respirable dust)                                                                                                          |
| Notes                                              | (Year of adoption 2003)                                                                                                                           |
| Regulatory reference                               | SCOEL Recommendations                                                                                                                             |
| Austria - Occupational Exposure Limits             |                                                                                                                                                   |
| MAK [mg/m <sup>3</sup> ]                           | 0.15 mg/m <sup>3</sup>                                                                                                                            |
| Remark (AT)                                        | (alveolengängige Fraktion; Jahres-Miw)                                                                                                            |
| Belgium - Occupational Exposure Limits             |                                                                                                                                                   |
| Limit value [mg/m <sup>3</sup> ]                   | 0.1 mg/m <sup>3</sup>                                                                                                                             |
| Remark (BE)                                        | (poussières alvéolaires)                                                                                                                          |
| Denmark - Occupational Exposure Limits             |                                                                                                                                                   |
| Local name                                         | Kvarts                                                                                                                                            |
| Grænseværdi (8 timer) (mg/m <sup>3</sup> )         | 0.3 mg/m <sup>3</sup> total<br>0.1 mg/m <sup>3</sup> total, respirabel                                                                            |
| Grænseværdi (STEL) (mg/m <sup>3</sup> )            | 0.6 mg/m <sup>3</sup> (inhalable aerosol)<br>0.2 mg/m <sup>3</sup> (K, respirable aerosol)                                                        |
| Remark                                             | E (betyder, at stoffet har en EF-grænseværdi); K (betyder, at stoffet anses for at kunne være kræftfremkaldende)                                  |
| Regulatory reference                               | BEK nr 2203 af 29. november 2021                                                                                                                  |
| Finland - Occupational Exposure Limits             |                                                                                                                                                   |
| Local name                                         | Kvartsi                                                                                                                                           |
| HTP-arvo (8h) (mg/m <sup>3</sup> )                 | 0.05 mg/m <sup>3</sup> alveolijae                                                                                                                 |
| Regulatory reference                               | HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)                                                                                         |
| France - Occupational Exposure Limits              |                                                                                                                                                   |
| Local name                                         | Silice (poussières alvéolaires de quartz)                                                                                                         |
| VME [mg/m <sup>3</sup> ]                           | 0.1 mg/m <sup>3</sup>                                                                                                                             |
| Note (FR)                                          | Valeurs réglementaires contraignantes                                                                                                             |
| Regulatory reference                               | Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849) |
| Hungary - Occupational Exposure Limits             |                                                                                                                                                   |
| AK-érték                                           | 0.15 mg/m <sup>3</sup>                                                                                                                            |
| Ireland - Occupational Exposure Limits             |                                                                                                                                                   |

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| <b>Silicon dioxide (cristobalite) (14808-60-7)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OEL (8 hours ref) (mg/m <sup>3</sup> )             | 0.1 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Lithuania - Occupational Exposure Limits</b>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| IPRV (mg/m <sup>3</sup> )                          | 0.1 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Netherlands - Occupational Exposure Limits</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Local name                                         | Respirabel kristallijn silicastof: – kwarts                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Grenswaarde TGG 8H (mg/m <sup>3</sup> )            | 0.075 mg/m <sup>3</sup> Respirabele fractie                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Remark                                             | Kankerverwekkende stof                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Regulatory reference                               | Arbeidsomstandighedenregeling 2022                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Poland - Occupational Exposure Limits</b>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Local name                                         | Krzemionka krystaliczna – kwarc                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| NDS (mg/m <sup>3</sup> )                           | 0.1 mg/m <sup>3</sup> frakcja respirabilna                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Remark                                             | Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.                                                                                                                                                                                                                                                                                                                     |
| Regulatory reference                               | Dz. U. 2018 poz. 1286                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Portugal - Occupational Exposure Limits</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Local name                                         | Silica, cristalina α-Quartzo                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| OEL TWA (mg/m <sup>3</sup> )                       | 0.025 mg/m <sup>3</sup> R (Fração respirável)                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Remark                                             | A2 (Agente carcinogénico confirmado nos animais de laboratorio con relevância desconhecida no Homem)                                                                                                                                                                                                                                                                                                                                                                       |
| Regulatory reference                               | Norma Portuguesa NP 1796:2014                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Slovakia - Occupational Exposure Limits</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Local name                                         | Oxid kremičitý, kryštalický                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| NPHV (priemerná) (mg/m <sup>3</sup> )              | 0.1 mg/m <sup>3</sup> respirabilná frakcia (TSH)                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Remark                                             | Kategória karcinogénov 1A – Dokázaný karcinogén pre ľudí                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Regulatory reference                               | Nariadenie vlády č. 356/2006 Z. z. (235/2020 Z. z.)                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Spain - Occupational Exposure Limits</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Local name                                         | Sílice Cristalina: Cuarzo                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| VLA-ED (mg/m <sup>3</sup> )                        | 0.05 mg/m <sup>3</sup> Fracción respirable                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Notes                                              | v (Agente cancerígeno con valor límite vinculante recogido en el anexo III del Real Decreto 665/1997 y en sus modificaciones posteriores), d (Véase UNE EN 481: Atmosferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles), y (Reclasificado, por la International Agency for Research on Cancer (IARC) de grupo 2A (probablemente carcinogénico en humanos) a grupo 1 (carcinogénico en humanos)). |
| Regulatory reference                               | Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Sweden - Occupational Exposure Limits</b>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Local name                                         | Kvarts                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Nivågränsvärde (NVG) (mg/m <sup>3</sup> )          | 0.1 mg/m <sup>3</sup> respirabel fraktion; Se även: Kristobalit och Tridymit                                                                                                                                                                                                                                                                                                                                                                                               |
| Remark                                             | C (Ämnet är cancerframkallande. Risk för cancer finns även vid annan exponering än via inandning. För vissa cancerframkallande ämnen som inte har gränsvärden gäller förbud eller tillståndskrav enligt föreskrifterna om kemiska arbetsmiljörisiker); M (Medicinska                                                                                                                                                                                                       |

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Silicon dioxide (cristobalite) (14808-60-7)   |                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                               | kontroller kan krävas för hantering av ämnet. Se vidare föreskrifterna om medicinska kontroller i arbetslivet. För vissa ämnen ska arbetsgivaren erbjuda läkarundersökning och för andra ämnen gäller krav på periodisk läkarundersökning och tjänstbarhetsbedömning); 3 (Den respirabla fraktionen är de inhalerbara partiklar som når längst ner i luftvägarna, till alveolerna i lungorna) |
| Regulatory reference                          | Hygieniska gränsvärden (AFS 2018:1)                                                                                                                                                                                                                                                                                                                                                           |
| Norway - Occupational Exposure Limits         |                                                                                                                                                                                                                                                                                                                                                                                               |
| Local name                                    | Krystallinsk silika (SiO <sub>2</sub> ), α-kvarts                                                                                                                                                                                                                                                                                                                                             |
| Grænseverdier (AN) (mg/m <sup>3</sup> )       | 0.3 mg/m <sup>3</sup> Totalstøv<br>0.1 mg/m <sup>3</sup> Respirabelt støv                                                                                                                                                                                                                                                                                                                     |
| Remark                                        | K: Kjemikalier som skal betraktes som kreftfremkallende; G: EU har fastsatt en bindende grenseverdi og/eller anmerkning for stoffet; 7) Støv som inneholder α-kvarts, kristobalitt og/eller tridymitt vurderes ut fra summasjonsformel. Samtidig må verdiene for sjenerende støv overholdes.                                                                                                  |
| Regulatory reference                          | FOR-2021-06-28-2248                                                                                                                                                                                                                                                                                                                                                                           |
| Switzerland - Occupational Exposure Limits    |                                                                                                                                                                                                                                                                                                                                                                                               |
| VME [mg/m <sup>3</sup> ]                      | 0.15 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                        |
| Remark                                        | (respirable aerosol)                                                                                                                                                                                                                                                                                                                                                                          |
| Carbon black (1333-86-4)                      |                                                                                                                                                                                                                                                                                                                                                                                               |
| Belgium - Occupational Exposure Limits        |                                                                                                                                                                                                                                                                                                                                                                                               |
| Limit value [mg/m <sup>3</sup> ]              | 3.5 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                         |
| Czech Republic - Occupational Exposure Limits |                                                                                                                                                                                                                                                                                                                                                                                               |
| Local name                                    | Amorfní uhlík (Carbon Black)                                                                                                                                                                                                                                                                                                                                                                  |
| Expoziční limity (PEL) (mg/m <sup>3</sup> )   | 10 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                          |
| Remark                                        | Prachy s převážně nespecifickým účinkem.                                                                                                                                                                                                                                                                                                                                                      |
| Regulatory reference                          | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)                                                                                                                                                                                                                                                                                                                                         |
| Denmark - Occupational Exposure Limits        |                                                                                                                                                                                                                                                                                                                                                                                               |
| Local name                                    | Carbon black                                                                                                                                                                                                                                                                                                                                                                                  |
| Grænseværdi (8 timer) (mg/m <sup>3</sup> )    | 3.5 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                         |
| Remark                                        | K (betyder, at stoffet anses for at kunne være kræftfremkaldende)                                                                                                                                                                                                                                                                                                                             |
| Regulatory reference                          | BEK nr 2203 af 29. november 2021                                                                                                                                                                                                                                                                                                                                                              |
| Finland - Occupational Exposure Limits        |                                                                                                                                                                                                                                                                                                                                                                                               |
| Local name                                    | Nokimusta                                                                                                                                                                                                                                                                                                                                                                                     |
| HTP-arvo (8h) (mg/m <sup>3</sup> )            | 3.5 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                         |
| HTP-arvo (15 min)                             | 7 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                           |
| Regulatory reference                          | HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden tutkimuskeskus)                                                                                                                                                                                                                                                                                                                                 |
| France - Occupational Exposure Limits         |                                                                                                                                                                                                                                                                                                                                                                                               |
| Local name                                    | Noir de carbone                                                                                                                                                                                                                                                                                                                                                                               |
| VME [mg/m <sup>3</sup> ]                      | 3.5 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                         |
| Note (FR)                                     | Valeurs recommandées/admises                                                                                                                                                                                                                                                                                                                                                                  |
| Regulatory reference                          | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)                                                                                                                                                                                                                                                                                                                                  |

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| <b>Carbon black (1333-86-4)</b>                      |                                                                                                                                             |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hungary - Occupational Exposure Limits</b>        |                                                                                                                                             |
| Local name                                           | Ipari korom [„Carbon Black“]                                                                                                                |
| AK-érték                                             | 3 mg/m <sup>3</sup> belélegezhető koncentráció                                                                                              |
| Regulatory reference                                 | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről            |
| <b>Ireland - Occupational Exposure Limits</b>        |                                                                                                                                             |
| OEL (8 hours ref) (mg/m <sup>3</sup> )               | 3.5 mg/m <sup>3</sup>                                                                                                                       |
| OEL (15 min ref) (mg/m <sup>3</sup> )                | 7 mg/m <sup>3</sup>                                                                                                                         |
| <b>Poland - Occupational Exposure Limits</b>         |                                                                                                                                             |
| Local name                                           | Sadza techniczna                                                                                                                            |
| NDS (mg/m <sup>3</sup> )                             | 4 mg/m <sup>3</sup> frakcja wdychalna                                                                                                       |
| Remark                                               | Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. |
| Regulatory reference                                 | Dz. U. 2018 poz. 1286                                                                                                                       |
| <b>Portugal - Occupational Exposure Limits</b>       |                                                                                                                                             |
| Local name                                           | Carbono, preto (Negro de fumo)                                                                                                              |
| OEL TWA (mg/m <sup>3</sup> )                         | 3 mg/m <sup>3</sup> I (Fração inalável)                                                                                                     |
| Remark                                               | A3 (Agente carcinogénico confirmado nos animais de laboratorio con relevância desconhecida no Homem)                                        |
| Regulatory reference                                 | Norma Portuguesa NP 1796:2014                                                                                                               |
| <b>Spain - Occupational Exposure Limits</b>          |                                                                                                                                             |
| Local name                                           | Negro de humo                                                                                                                               |
| VLA-ED (mg/m <sup>3</sup> )                          | 3.5 mg/m <sup>3</sup>                                                                                                                       |
| Regulatory reference                                 | Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT                                                               |
| <b>Sweden - Occupational Exposure Limits</b>         |                                                                                                                                             |
| Local name                                           | Kimrök                                                                                                                                      |
| Nivågränsvärde (NVG) (mg/m <sup>3</sup> )            | 3 mg/m <sup>3</sup>                                                                                                                         |
| <b>Norway - Occupational Exposure Limits</b>         |                                                                                                                                             |
| Local name                                           | Carbon Black (lampesot)                                                                                                                     |
| Greenseverdier (AN) (mg/m <sup>3</sup> )             | 3.5 mg/m <sup>3</sup>                                                                                                                       |
| Regulatory reference                                 | FOR-2021-06-28-2248                                                                                                                         |
| <b>Silicon dioxide (amorphous) (112926-00-8)</b>     |                                                                                                                                             |
| <b>Austria - Occupational Exposure Limits</b>        |                                                                                                                                             |
| MAK [mg/m <sup>3</sup> ]                             | 4 mg/m <sup>3</sup>                                                                                                                         |
| Remark (AT)                                          | (einatembare Fraktion)                                                                                                                      |
| <b>Czech Republic - Occupational Exposure Limits</b> |                                                                                                                                             |
| Local name                                           | Amorfní SiO <sub>2</sub>                                                                                                                    |
| Expoziční limity (PEL) (mg/m <sup>3</sup> )          | 4 mg/m <sup>3</sup>                                                                                                                         |
| Remark                                               | Prachy s možným fibrogenním účinkem.                                                                                                        |

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| <b>Silicon dioxide (amorphous) (112926-00-8)</b>         |                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regulatory reference                                     | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)                                                                                                                                                                                                                                              |
| <b>Finland - Occupational Exposure Limits</b>            |                                                                                                                                                                                                                                                                                                    |
| Local name                                               | Piidioksidi, saostettu                                                                                                                                                                                                                                                                             |
| HTP-arvo (8h) (mg/m <sup>3</sup> )                       | 5 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                |
| Regulatory reference                                     | HTP-ARVOT 2020 (Sosiaali- ja terveystieteiden ministeriö)                                                                                                                                                                                                                                          |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |                                                                                                                                                                                                                                                                                                    |
| Occupational exposure limit value (mg/m <sup>3</sup> )   | 4 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                |
| Remark                                                   | (einatembare Fraktion)                                                                                                                                                                                                                                                                             |
| Regulatory reference                                     | TRGS900                                                                                                                                                                                                                                                                                            |
| <b>Ireland - Occupational Exposure Limits</b>            |                                                                                                                                                                                                                                                                                                    |
| OEL (8 hours ref) (mg/m <sup>3</sup> )                   | 2.4 mg/m <sup>3</sup><br>6 mg/m <sup>3</sup> (total inhalable dust)                                                                                                                                                                                                                                |
| <b>Latvia - Occupational Exposure Limits</b>             |                                                                                                                                                                                                                                                                                                    |
| Local name                                               | Silīcija dioksīds                                                                                                                                                                                                                                                                                  |
| OEL TWA                                                  | 1 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                |
| Regulatory reference                                     | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2020. gada 7. janvārī noteikumiem Nr. 11)                                                                                                                                                                  |
| <b>Poland - Occupational Exposure Limits</b>             |                                                                                                                                                                                                                                                                                                    |
| Local name                                               | Krzemionka bezpostaciowa i syntetyczna: krzemionka bezpostaciowa syntetyczna (strącona i żel)                                                                                                                                                                                                      |
| NDS (mg/m <sup>3</sup> )                                 | 10 mg/m <sup>3</sup> frakcja wdychalna<br>2 mg/m <sup>3</sup> frakcja respirabilna                                                                                                                                                                                                                 |
| Remark                                                   | Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaćca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej. |
| Regulatory reference                                     | Dz. U. 2018 poz. 1286                                                                                                                                                                                                                                                                              |
| <b>Slovenia - Occupational Exposure Limits</b>           |                                                                                                                                                                                                                                                                                                    |
| Local name                                               | silikagel                                                                                                                                                                                                                                                                                          |
| OEL TWA                                                  | 4 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                |
| Remark                                                   | Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)                                                                                                                                                                                                   |
| Regulatory reference                                     | Uradni list RS, št. 72/2021 z dne 11.5.2021                                                                                                                                                                                                                                                        |
| <b>Spain - Occupational Exposure Limits</b>              |                                                                                                                                                                                                                                                                                                    |
| VLA-ED (mg/m <sup>3</sup> )                              | 10 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                               |
| Notes                                                    | (respirable aerosol)                                                                                                                                                                                                                                                                               |
| <b>Switzerland - Occupational Exposure Limits</b>        |                                                                                                                                                                                                                                                                                                    |
| VME [mg/m <sup>3</sup> ]                                 | 4 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                |
| Remark                                                   | (einatembarer Staub)                                                                                                                                                                                                                                                                               |

### 8.1.2. Recommended monitoring procedures

No data available

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 8.1.3. Air contaminants formed

No data available

### 8.1.4. DNEL and PNEC

No data available

### 8.1.5. Control banding

No data available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Avoid dispersal of dust in the air (i.e. clearing dust surfaces with compressed air). Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses. EN166

#### 8.2.2.2. Skin protection

##### Hand protection:

Wear dust impervious gloves. EN374

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Use air-purifying respirator equipped with particulate filtering cartridges. EN 12083

#### 8.2.2.4. Thermal hazards

No data available

### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                             |                               |
|-----------------------------|-------------------------------|
| Physical state              | : Solid                       |
| Colour                      | : Variable                    |
| Appearance                  | : A solid crayon-like marker. |
| Odour                       | : Odourless                   |
| Odour threshold             | : Not available               |
| Melting point               | : Not available               |
| Freezing point              | : Not available               |
| Boiling point               | : Not available               |
| Flammability                | : Not available               |
| Explosive limits            | : Not applicable              |
| Lower explosion limit       | : Not applicable              |
| Upper explosive limit (UEL) | : Not applicable              |
| Flash point                 | : Not applicable              |
| Auto-ignition temperature   | : Not applicable              |
| Decomposition temperature   | : Not available               |
| pH                          | : Not available               |
| pH solution                 | : Not available               |
| Viscosity, kinematic        | : Not applicable              |
| Solubility                  | : Not available               |

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

|                                  |                  |
|----------------------------------|------------------|
| Log Kow                          | : Not available  |
| Vapour pressure                  | : Not available  |
| Vapour pressure at 50 °C         | : Not available  |
| Density                          | : Not available  |
| Relative density                 | : Not available  |
| Relative vapour density at 20 °C | : Not applicable |
| Particle size                    | : Not available  |
| Particle size distribution       | : Not available  |
| Particle shape                   | : Not available  |
| Particle aspect ratio            | : Not available  |
| Particle aggregation state       | : Not available  |
| Particle agglomeration state     | : Not available  |
| Particle specific surface area   | : Not available  |
| Particle dustiness               | : Not available  |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No data available

#### 9.2.2. Other safety characteristics

VOC content : 0 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Keep away from incompatible materials. Avoid creating or spreading dust.

### 10.5. Incompatible materials

Strong bases. Strong oxidizers.

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

#### myristic acid (544-63-8)

|               |               |
|---------------|---------------|
| LD50 Oral rat | > 10000 mg/kg |
|---------------|---------------|

#### cetyl alcohol (36653-82-4)

|               |                                                                        |
|---------------|------------------------------------------------------------------------|
| LD50 Oral rat | 5000 mg/kg Source: International Uniform Chemical Information Database |
|---------------|------------------------------------------------------------------------|

|                    |                                                   |
|--------------------|---------------------------------------------------|
| LD50 Dermal rabbit | > 2600 mg/kg Source: National Library of Medicine |
|--------------------|---------------------------------------------------|

#### Iron oxide red (1309-37-1)

|               |                            |
|---------------|----------------------------|
| LD50 Oral rat | > 10000 mg/kg Source: ECHA |
|---------------|----------------------------|

|           |                                                                                    |
|-----------|------------------------------------------------------------------------------------|
| LD50 oral | > 5000 mg/kg bodyweight Animal: , Guideline: EU Method B.1 (Acute Toxicity (Oral)) |
|-----------|------------------------------------------------------------------------------------|

|                 |            |
|-----------------|------------|
| LD50 Dermal rat | 5500 mg/kg |
|-----------------|------------|

|                     |              |
|---------------------|--------------|
| LC50 Inhalation rat | 5.05 mg/l/4h |
|---------------------|--------------|

|                                 |                        |
|---------------------------------|------------------------|
| LC50 Inhalation rat (dust/mist) | 5.05 mg/l Source: ECHA |
|---------------------------------|------------------------|



# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| <b>sodium carbonate (497-19-8)</b>                                    |                                                                 |
|-----------------------------------------------------------------------|-----------------------------------------------------------------|
| LD50 Oral rat                                                         | 2800 mg/kg                                                      |
| LD50 Dermal rabbit                                                    | > 2000 mg/kg                                                    |
| LC50 Inhalation rat (dust/mist)                                       | 2.3 mg/l/4h                                                     |
| <b>Ethyl cellulose (9004-57-3)</b>                                    |                                                                 |
| LD50 Oral rat                                                         | > 5000 mg/kg                                                    |
| LD50 Dermal rat                                                       | > 5000 mg/kg                                                    |
| LD50 Dermal rabbit                                                    | > 5000 mg/kg Source: Corporate Solution From Thomson Micromedex |
| <b>adipic acid (124-04-9)</b>                                         |                                                                 |
| LD50 Oral rat                                                         | 11000 mg/kg                                                     |
| LD50 Dermal rabbit                                                    | 7940 ml/kg                                                      |
| LC50 Inhalation rat                                                   | 7.7 mg/l                                                        |
| <b>29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper (147-14-8)</b> |                                                                 |
| LD50 Oral rat                                                         | > 10000 mg/kg                                                   |
| LD50 Dermal rat                                                       | > 5000 mg/kg                                                    |
| <b>Limestone (1317-65-3)</b>                                          |                                                                 |
| LD50 Oral rat                                                         | 6450 mg/kg                                                      |
| <b>Carbon black (1333-86-4)</b>                                       |                                                                 |
| LD50 Oral rat                                                         | > 8000 mg/kg                                                    |
| LD50 Dermal rabbit                                                    | > 8000 mg/kg Source: ECHA                                       |
| LC50 Inhalation rat                                                   | > 4.6 mg/m <sup>3</sup> 4 h                                     |
| <b>Silicon dioxide (amorphous) (112926-00-8)</b>                      |                                                                 |
| LD50 Oral rat                                                         | > 5000 mg/kg                                                    |
| LD50 Dermal rat                                                       | > 5000 mg/kg Source: ECHA                                       |
| LD50 Dermal rabbit                                                    | > 2000 mg/kg                                                    |
| LC50 Inhalation rat                                                   | > 58.8 mg/l/4h                                                  |
| Skin corrosion/irritation                                             | : Not classified                                                |
| Serious eye damage/irritation                                         | : Causes serious eye irritation.                                |
| Respiratory or skin sensitisation                                     | : Not classified                                                |
| Germ cell mutagenicity                                                | : Not classified                                                |
| Carcinogenicity                                                       | : Not classified                                                |
| <b>Iron oxide red (1309-37-1)</b>                                     |                                                                 |
| IARC group                                                            | 3 - Not classifiable                                            |
| <b>sodium carbonate (497-19-8)</b>                                    |                                                                 |
| IARC group                                                            | Not listed in carcinogenicity class                             |
| <b>Silicon dioxide (cristobalite) (14808-60-7)</b>                    |                                                                 |
| IARC group                                                            | 1 - Carcinogenic to humans                                      |
| <b>Carbon black (1333-86-4)</b>                                       |                                                                 |
| IARC group                                                            | 2B - Possibly carcinogenic to humans,Inhalation of dust         |

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Silicon dioxide (amorphous) (112926-00-8)

|                       |                      |
|-----------------------|----------------------|
| IARC group            | 3 - Not classifiable |
| Reproductive toxicity | : Not classified     |
| STOT-single exposure  | : Not classified     |

### sodium carbonate (497-19-8)

|                                         |                  |
|-----------------------------------------|------------------|
| LOAEC (inhalation, rat, dust/mist/fume) | 70 mg/l/4h       |
| STOT-repeated exposure                  | : Not classified |

### Iron oxide red (1309-37-1)

|                                                  |                                                                                                                           |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| LOAEC (inhalation, rat,dust/mist/fume, 90 days)  | 0.2102 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) |
| NOAEC (inhalation, rat, dust/mist/fume, 90 days) | ≥ 0.03 mg/l air Animal: rat, Animal sex: male                                                                             |

### adipic acid (124-04-9)

|                            |                          |
|----------------------------|--------------------------|
| NOAEL (oral, rat, 90 days) | 750 mg/kg bodyweight/day |
|----------------------------|--------------------------|

### Carbon black (1333-86-4)

|                                                  |                                                                                                                          |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| LOAEC (inhalation, rat,dust/mist/fume, 90 days)  | 0.0071 mg/l air Animal: rat, Animal sex: male                                                                            |
| NOAEL (oral, rat, 90 days)                       | > 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEC (inhalation, rat, dust/mist/fume, 90 days) | 0.0011 mg/l air Animal: rat, Animal sex: male                                                                            |

Aspiration hazard : Not classified

### 11.2. Information on other hazards

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified

### myristic acid (544-63-8)

|                |                         |
|----------------|-------------------------|
| LC50 fish 1    | 118 mg/l Source: IUCLID |
| EC50 crustacea | > 27 mg/l 16 h          |

### Iron oxide red (1309-37-1)

|                                |                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| LC50 fish 1                    | ≥ 50000 mg/l Source: ECHA                                                                                                                 |
| EC50 crustacea                 | > 100 mg/l Source: ECHA                                                                                                                   |
| EC50 other aquatic organisms 1 | > 100 mg/l Test organisms (species):                                                                                                      |
| EC50 72h - Algae [1]           | > 20 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

### sodium carbonate (497-19-8)

|                |                              |
|----------------|------------------------------|
| LC50 fish 1    | 300 mg/l Lepomis macrochirus |
| EC50 crustacea | 200 – 227 g/l                |

### adipic acid (124-04-9)

|                |         |
|----------------|---------|
| LC50 fish 1    | 97 mg/l |
| EC50 crustacea | 46 mg/l |

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| <b>29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper (147-14-8)</b> |                         |
|-----------------------------------------------------------------------|-------------------------|
| LC50 fish 1                                                           | > 100 mg/l 96 h         |
| EC50 crustacea                                                        | > 500 mg/l 48 h         |
| EC50 72h - Algae [1]                                                  | > 100 mg/l Source: ECHA |

| <b>Limestone (1317-65-3)</b> |            |
|------------------------------|------------|
| LC50 fish 1                  | > 200 mg/l |

| <b>Carbon black (1333-86-4)</b> |                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------|
| LC50 fish 1                     | > 1000 mg/l Source: NITE                                                                                |
| EC50 72h - Algae [1]            | > 10000 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| EC50 72h - Algae [2]            | > 10000 mg/l Test organisms (species):                                                                  |
| ErC50 algae                     | > 10000 mg/l Source: EHCA                                                                               |

| <b>Silicon dioxide (amorphous) (112926-00-8)</b> |              |
|--------------------------------------------------|--------------|
| LC50 fish 1                                      | > 10000 mg/l |
| EC50 crustacea                                   | > 1000 mg/l  |

### 12.2. Persistence and degradability

| <b>myristic acid (544-63-8)</b> |                        |
|---------------------------------|------------------------|
| Persistence and degradability   | Readily biodegradable. |
| Biodegradation                  | 99 % 15 d              |

| <b>adipic acid (124-04-9)</b> |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |
| Biodegradation                | 90 % 5 d               |

| <b>29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper (147-14-8)</b> |                        |
|-----------------------------------------------------------------------|------------------------|
| Persistence and degradability                                         | Readily biodegradable. |

| <b>Limestone (1317-65-3)</b>  |                            |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |

| <b>Carbon black (1333-86-4)</b> |                            |
|---------------------------------|----------------------------|
| Persistence and degradability   | Not readily biodegradable. |

| <b>Silicon dioxide (amorphous) (112926-00-8)</b> |                   |
|--------------------------------------------------|-------------------|
| Persistence and degradability                    | Product persists. |

### 12.3. Bioaccumulative potential

| <b>myristic acid (544-63-8)</b> |                         |
|---------------------------------|-------------------------|
| Log Pow                         | 6.11 Source: ChemIDplus |

| <b>cetyl alcohol (36653-82-4)</b>   |                                                                  |
|-------------------------------------|------------------------------------------------------------------|
| Bioconcentration factor (BCF REACH) | 56                                                               |
| Log Pow                             | 6.65 Source: International Uniform Chemical Information Database |
| Log Kow                             | 6.65 – 6.73                                                      |

| <b>Ethyl cellulose (9004-57-3)</b> |  |
|------------------------------------|--|
|------------------------------------|--|

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Ethyl cellulose (9004-57-3)

|         |                                                             |
|---------|-------------------------------------------------------------|
| Log Pow | 5.5 Source: National Institute of Technology and Evaluation |
|---------|-------------------------------------------------------------|

### adipic acid (124-04-9)

|            |       |
|------------|-------|
| BCF fish 1 | 3.162 |
|------------|-------|

|         |      |
|---------|------|
| Log Pow | 0.08 |
|---------|------|

### 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper (147-14-8)

|            |       |
|------------|-------|
| BCF fish 1 | < 3.6 |
|------------|-------|

|         |                  |
|---------|------------------|
| Log Pow | 6.6 Source: HSDB |
|---------|------------------|

### Limestone (1317-65-3)

|                           |                                       |
|---------------------------|---------------------------------------|
| Bioaccumulative potential | Does not bioaccumulate significantly. |
|---------------------------|---------------------------------------|

#### 12.4. Mobility in soil

### cetyl alcohol (36653-82-4)

|                  |                                                                           |
|------------------|---------------------------------------------------------------------------|
| Mobility in soil | 25000 Source: National Library of Medicine/Hazardous Substances Data Bank |
|------------------|---------------------------------------------------------------------------|

#### 12.5. Results of PBT and vPvB assessment

### Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

|                       |
|-----------------------|
| PBT: not yet assessed |
|-----------------------|

|                        |
|------------------------|
| vPvB: not yet assessed |
|------------------------|

#### 12.6. Endocrine disrupting properties

No data available

#### 12.7. Other adverse effects

No data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                                   |                                                                                                                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sewage disposal recommendations   | : Do not dispose of waste into sewer.                                                                                                                                          |
| Waste disposal recommendations    | : Dispose in a safe manner in accordance with local/national regulations.                                                                                                      |
| Ecology - waste materials         | : Avoid release to the environment.                                                                                                                                            |
| European List of Waste (LoW) code | : For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.                                                             |
| HP Code                           | : H4 - 'Irritant': non-corrosive substances and preparations which, through immediate, prolonged or repeated contact with the skin or mucous membrane, can cause inflammation. |

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

#### 14.1. UN number or ID number

|               |                 |
|---------------|-----------------|
| UN-No. (ADR)  | : Not regulated |
| UN-No. (IMDG) | : Not regulated |
| UN-No. (IATA) | : Not regulated |
| UN-No. (ADN)  | : Not regulated |
| UN-No. (RID)  | : Not regulated |

#### 14.2. UN proper shipping name

|                             |                 |
|-----------------------------|-----------------|
| Proper Shipping Name (ADR)  | : Not regulated |
| Proper Shipping Name (IMDG) | : Not regulated |
| Proper Shipping Name (IATA) | : Not regulated |
| Proper Shipping Name (ADN)  | : Not regulated |
| Proper Shipping Name (RID)  | : Not regulated |

#### 14.3. Transport hazard class(es)

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### ADR

Transport hazard class(es) (ADR) : Not regulated

### IMDG

Transport hazard class(es) (IMDG) : Not regulated

### IATA

Transport hazard class(es) (IATA) : Not regulated

### ADN

Transport hazard class(es) (ADN) : Not regulated

### RID

Transport hazard class(es) (RID) : Not regulated

### 14.4. Packing group

Packing group (ADR) : Not regulated

Packing group (IMDG) : Not regulated

Packing group (IATA) : Not regulated

Packing group (ADN) : Not regulated

Packing group (RID) : Not regulated

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

No data available

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

No data available

#### Rail transport

No data available

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

VOC content : 0 %

#### 15.1.2. National regulations

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS).

All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

WGK remark : Classification based on the R-phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

### Netherlands

ABM category : A(3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic environment

SZW-lijst van kankerverwekkende stoffen : Ethyl cellulose, Silicon dioxide (cristobalite) are listed

SZW-lijst van mutagene stoffen : Ethyl cellulose is listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : disodium molybdate is listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

### Denmark

Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### Switzerland

Storage class (LK) : LK 11/13 - Solids

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

### Indication of changes:

General information.

### Abbreviations and acronyms:

|  |                                                                                             |
|--|---------------------------------------------------------------------------------------------|
|  | ATE: Acute Toxicity Estimate                                                                |
|  | CAS (Chemical Abstracts Service) number                                                     |
|  | CLP: Classification, Labelling, Packaging.                                                  |
|  | EC50: Environmental Concentration associated with a response by 50% of the test population. |
|  | GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).              |
|  | LD50: Lethal Dose for 50% of the test population                                            |
|  | OSHA: Occupational Safety & Health Administration                                           |
|  | PBT: Persistent, Bioaccumulative, Toxic                                                     |
|  | TWA: Time Weighted Average                                                                  |
|  | TSCA: Toxic Substances Control Act                                                          |

Data sources : ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association. Fire Protection Guide to Hazardous Materials; 10th edition. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None

# Tempilstik® 119 °F (48 °C), 122 °F (50 °C), 125 °F (52 °C), 284 °F (140°C), 294 °F (146 °C), 1100 °F (593 °C), 1112 °F (600 °C)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Full text of H- and EUH-statements:

|                                        |                                                                   |
|----------------------------------------|-------------------------------------------------------------------|
| Acute Tox. 4<br>(Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4                  |
| Aquatic Chronic 2                      | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Carc. 1A                               | Carcinogenicity, Category 1A                                      |
| Eye Irrit. 2                           | Serious eye damage/eye irritation, Category 2                     |
| H319                                   | Causes serious eye irritation.                                    |
| H332                                   | Harmful if inhaled.                                               |
| H350                                   | May cause cancer.                                                 |
| H411                                   | Toxic to aquatic life with long lasting effects.                  |
| STOT RE Not classified                 | Specific target organ toxicity (repeated exposure) Not classified |

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

|              |      |                    |
|--------------|------|--------------------|
| Eye Irrit. 2 | H319 | Calculation method |
|--------------|------|--------------------|

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.