

LA-CO Industries, Inc.

Thermomelt® HEAT-STIK Markers : 113 °F, 125 °F, 131 °F, 138 °F, 156 °F, 163 °F, 188 °F, 194 °F, 238 °F, 256 °F, 269 °F, 319 °F, 325 °F, 331 °F, 338 °F, 344 °F, 350 °F, 375 °F, 425 °F, 438 °F, 525 °F, 600 °F, 650 °F, 850 °F, 900 °F, 932 °F, 950 °F, 1000 °F, 1022 °F, 1100 °F, 1150 °F, 1200 °F, 1250 °F, 1300 °F, 1350 °F, 1400 °F, 1425 °F, 1450 °F, 1480 °F, 1500 °F, 1550 °F, 1600 °F, 1650 °F, 1700 °F, 1850 °F, 1900 °F, 1950 °F, 2000 °F, 2050 °F, 2200 °F

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 06/04/2015

Revision date: 26/10/2015

Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Trade name : Thermomelt® HEAT-STIK Markers : 113 °F, 125 °F, 131 °F, 138 °F, 156 °F, 163 °F, 188 °F, 194 °F, 238 °F, 256 °F, 269 °F, 319 °F, 325 °F, 331 °F, 338 °F, 344 °F, 350 °F, 375 °F, 425 °F, 438 °F, 525 °F, 600 °F, 650 °F, 850 °F, 900 °F, 932 °F, 950 °F, 1000 °F, 1022 °F, 1100 °F, 1150 °F, 1200 °F, 1250 °F, 1300 °F, 1350 °F, 1400 °F, 1425 °F, 1450 °F, 1480 °F, 1500 °F, 1550 °F, 1600 °F, 1650 °F, 1700 °F, 1850 °F, 1900 °F, 1950 °F, 2000 °F, 2050 °F, 2200 °F
Synonyms : Thermomelt® HEAT-STIK Marker 113 °F (45 °C), 125 °F (50, 52 °C), 131 °F (55 °C), 138 °F (59 °C, 60 °C), 156 °F, 163 °F (73, 75 °C), 188 °F (87 °C), 194 °F (90 °C), 238 °F (114 °C), 256 °F (124, 125 °C), 269 °F (131, 132 °C), 319 °F (159, 160 °C), 325 °F (163 °C), 331 °F (165, 166 °C), 338 °F (170 °C), 344 °F (173 °C), 350 °F (175, 177, 180 °C), 375 °F (191 °C), 425 °F (218 °C), 438 °F (225 °C), 525 °F (274, 275 °C), 600 °F (316 °C), 650 °F (343, 350 °C), 850 °F (450, 454 °C), 900 °F (482 °C), 932 °F (500 °C), 950 °F (510 °C), 1000 °F (538 °C), 1022 °F (550 °C), 1100 °F (593, 600 °C), 1200 °F (649, 650 °C), 1250 °F (677 °C), 1300 °F (700, 704 °C), 1350 °F (732 °C), 1400 °F (750, 760 °C), 1425 °F (774 °C), 1450 °F (788 °C), 1480 °F (800, 804 °C), 1500 °F (816 °C), 1550 °F (843, 850 °C), 1600 °F (871 °C), 1650 °F (899, 900 °C), 1700 °F (927 °C), 1850 °F (1000, 1010 °C), 1900 °F (1038 °C), 1950 °F (1066 °C), 2000 °F (1100 °C), 2050 °F (1121 °C), 2200 °F (1200, 1204 °C)

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

1.2.1. Relevant identified uses

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

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LA-CO Industries Europe S.A.S.
Parc Industriel de la Plaine de l'Ain - Allée des Combes.
01150.BLYES.France.
Phone: +33 (0)4 74 46 23 23
Fax: +33 (0)4 74 46 23 29
E-mail: info@eu.laco.com
Web: http://www.markal.com



1.4. Emergency telephone number

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887

| EU Member State | Officieel adviesorgaan | Adres | Noodnummer |
|-----------------|--|--|---------------------|
| AUSTRIA | Vergiftungsinformationszentrale (Poisons Information Centre) | Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien | +43 1 406 43 43 |
| BELARUS | The Belarus Republican Poisons Centre | Kizhevatova str. 58 220115 Minsk | +375 (0)17 201 9158 |
| BELGIUM | Centre Anti-Poisons/Antigifocentrum c/o Hôpital Central de la Base - Reine Astrid | Rue Bruyn 1 B -1120 Bruxelles/Brussel | +32 70 245 245 |
| BULGARIA | Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov" | 21 Totleben Boulevard 1606 SOFIA | +359 2 9154 409 |

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| | | | |
|----------------|--|--|---|
| CROATIA | Poisons Control Centre Institute of Medical Research & Occupational Health | Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb | +385 1 234 8342 |
| CZECH REPUBLIC | Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University | Na Bojišti 1 120 00 Praha 2 | +42 2 2491 9293 +42 2 2491 5402 |
| DENMARK | Giflinjen Bispebjerg Hospital | Bispebjerg Bakke 23, 60, 1 DK-2400 København NV | +45 82 12 12 12 +45 35 31 55 55 |
| ESTONIA | Mürgistusteabekeskus | Gonsiori 29 15027 Tallinn | +372 626 93 90 |
| FINLAND | Myrkytystietokeskus | P.O.B 340 (Haartmaninkatu 4) HUS 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 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 Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service) | 1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2 | +36 80 20 11 99 |
| ICELAND | Eitrunarmiðstöðin | Eitrunarmiðstöðin 108 Reykjavik | +354 543 22 22 |
| IRELAND | National Poisons Information Centre | Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2166 |
| LATVIA | Valsts Toksikoloģijas centra Saindēšanās un 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 53 378 |
| MALTA | Medicines & Poisons Info Office | Mater Dei Hospital, Msida MSD 2090 Malta | 25450000 |
| NETHERLANDS | Nationaal Vergiftigingen Informatie Centrum National Institute for Public Health and the Environment, NB this service is only available to health professionals | Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht | +31 30 274 88 88 |
| PORTUGAL | Centro de Informação Antivenenos Instituto Nacional de Emergência Médica (INEM) | Rua Almirante Barroso, 36 1000-013 Lisboa | 808 250 143 (for use only in Portugal), +351 21 330 3284 |
| ROMANIA | Biroul pentru Regulamentul Sanitar International si Informare Toxicologica | Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 50463 Bucuresti | +40 21 318 36 06 |
| SLOVAKIA | Národné toxikologické informačné centrum University Hospital Bratislava | Limbová 5 833 05 Bratislava | +421 2 54 77 4 166 |
| SPAIN | Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid | Calle Luis Cabrera 9 E-28002 Madrid | +34 91 562 04 20 |
| SWEDEN | Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital | Box 60 500 SE-171 76 Stockholm | +46 8 33 12 31 (International) 112 (National) |
| SWITZERLAND | Centre Suisse d'Information Toxicologique | Freiestrasse 16 Postfach CH-8028 Zurich | +41 44 251 51 51 (International) 145 (National) |

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

EUH-statements

: EUH210 - Safety data sheet available on request

Unknown acute toxicity (CLP: Classification, Labelling, Packaging.) - SDS

: 0% of the mixture consists of ingredient(s) of unknown acute oral toxicity
0% of the mixture consists of ingredient(s) of unknown acute dermal toxicity
0% percent of the mixture consists of ingredient(s) of unknown acute inhalation (dust/mist) toxicity

2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Comments

: Variable

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|--------|---|
| Potassium chloride | (CAS No) 7447-40-7 (EC no) 231-211-8 | 0 – 97 | Not classified |
| Sodium chloride | (CAS No) 7647-14-5 (EC no) 231-598-3 | 0 – 97 | Not classified |
| potassium sulfate | (CAS No) 7778-80-5 (EC no) 231-915-5 | 0 – 97 | Not classified |
| Sodium sulfate | (CAS No) 7757-82-6 (EC no) 231-820-9 | 0 – 95 | Not classified |
| 2',4'-dimethylacetoacetanilide | (CAS No) 97-36-9 (EC no) 202-576-0 | 0 – 95 | Acute Tox. 4 (Oral), H302 |
| 1-[(2,4-dinitrophenyl)azo]-2-naphthol C.I. Pigment Orange 5 | (CAS No) 3468-63-1 (EC no) 222-429-4 | 0 – 70 | Not classified |
| calcium sulfate | (CAS No) 7778-18-9 (EC no) 231-900-3 | 0 – 35 | Not classified |
| limestone | (CAS No) 1317-65-3 (EC no) 215-279-6 | 0 – 25 | Not classified |
| adipic acid | (CAS No) 124-04-9 (EC no) 204-673-3 (EC index no) 607-144-00-9 | 0 – 7 | Eye Irrit. 2, H319 |
| dilithium molybdate | (CAS No) 13568-40-6 (EC no) 236-977-7 | 0 – 6 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 |
| myristic acid | (CAS No) 544-63-8 (EC no) 208-875-2 | 0 – 6 | Eye Irrit. 2, H319 |
| 2-methoxy-1-methylethyl acetate | (CAS No) 108-65-6 (EC no) 203-603-9 (EC index no) 607-195-00-7 | 0 – 3 | Flam. Liq. 3, H226 |
| Talc | (CAS No) 14807-96-6 (EC no) 238-877-9 | 0 – 2 | Not classified |
| 1-Methoxy-2-propanol | (CAS No) 107-98-2 (EC no) 203-539-1 (EC index no) 603-064-00-3 | 0 – 2 | Flam. Liq. 3, H226 STOT SE 3, H336 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|---------|--|
| Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) | (CAS No) 64742-95-6 (EC no) 265-199-0 (EC index no) 649-356-00-4 | 0 – 2 | Asp. Tox. 1, H304 |
| 1,2,4-trimethylbenzene | (CAS No) 95-63-6 (EC no) 202-436-9 (EC index no) 601-043-00-3 | 0 – 2 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411 |
| Iron oxide red | (CAS No) 1309-37-1 (EC no) 215-168-2 | 0 – 2 | Aquatic Chronic 2, H411 |
| calcium carbonate | (CAS No) 471-34-1 (EC no) 207-439-9 | 0 – 1 | Not classified |
| cumene | (CAS No) 98-82-8 (EC no) 202-704-5 (EC index no) 601-024-00-X | 0 – 0.1 | Flam. Liq. 3, H226 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Silicon dioxide (amorphous) | (CAS No) 7631-86-9 (EC no) 231-545-4 | 0 – 0.1 | Not classified |
| barium sulfate | (CAS No) 7727-43-7 (EC no) 231-784-4 | 0 – 0.1 | Not classified |
| Carbon black | (CAS No) 1333-86-4 (EC no) 215-609-9 | 0 – 0.1 | Carc. 2, H351 |
| Silicon dioxide (cristobalite) | (CAS No) 14808-60-7 (EC no) 238-878-4 | 0 – 0.1 | Carc. 1A, H350i |

Full text of R- and H-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. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with mild soap and water. |
| First-aid measures after eye contact | : If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. |

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

| | |
|-------------------|--|
| Symptoms/injuries | : Not expected to present a significant hazard under anticipated conditions of normal use. |
|-------------------|--|

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

All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Carbon dioxide. Dry powder. Foam. Water spray. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|---|
| Fire hazard | : No specific fire or explosion hazard. |
| Hazardous decomposition products in case of fire | : Carbon dioxide. Carbon monoxide. metallic oxides. Sulphur oxides. |

5.3. Advice for firefighters

| | |
|---------------------------|---|
| Firefighting instructions | : Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses. |
|---------------------------|---|

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Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus. EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.1.1. For non-emergency personnel

Protective equipment : In case of inadequate ventilation wear respiratory protection.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment.

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

Methods for cleaning up : Take up in non-combustible absorbent material and shove into container for disposal. Minimize generation of dust.

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. Avoid breathing dust, fume.

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 only in the original container in a cool well ventilated place. Keep container closed when not in use.

Incompatible products : Strong acids. Strong oxidizers. Strong bases.

Incompatible materials : Sources of ignition.

7.3. Specific end use(s)

Temperature indicator.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| adipic acid (124-04-9) | | |
|------------------------|--|--|
| Finland | HTP-arvo (8h) (mg/m ³) | 5 mg/m ³ |
| Poland | Remark (PL) | pyly |
| Spain | VLA-ED (mg/m ³) | 5 mg/m ³ |
| limestone (1317-65-3) | | |
| Belgium | Remark (BE) | (carbonate de) |
| Hungary | Megjegyzések (HU) | inhalable aerosol |
| Ireland | OEL (8 hours ref) (mg/m ³) | 10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust |
| Spain | VLA-ED (mg/m ³) | 10 mg/m ³ |
| Spain | Notes | inhalable aerosol |

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| limestone (1317-65-3) | | |
|---------------------------------------|---|--|
| United Kingdom | WEL TWA (mg/m ³) | 10 mg/m ³ (total dust) 4 mg/m ³ (respirable dust) |
| Switzerland | Remark (CH) | (respirable aerosol) |
| Iron oxide red (1309-37-1) | | |
| Belgium | Remark (BE) | (trioxyde de; fumées, en Fe) |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 7 mg/m ³ |
| Denmark | Anmærkninger (DK) | (Jernoxid, total dust) |
| Finland | Huomautus (FI) | (Fe) |
| Hungary | Megjegyzések (HU) | (respirabilis por) |
| Ireland | OEL (8 hours ref) (mg/m ³) | 5 mg/m ³ (Iron oxide, fume as Fe) 10 mg/m ³ (Rouge total inhalable dust) 4 mg/m ³ (Rouge total respirable dust) |
| Ireland | OEL (15 min ref) (mg/m ³) | 10 mg/m ³ (Iron oxide, fume as Fe) |
| Lithuania | Remark (LT) | (Piūrėk IX skyriaus 3 pastabà.) |
| Poland | Remark (PL) | (dymy) |
| Slovakia | NPHV (priemerná) (mg/m ³) | 1.5 mg/m ³ (respirabilná frakcia) 4 mg/m ³ (inhalovateľná frakcia) |
| Spain | Notes | (Óxido de hierro(III) (polvo y humos), como Fe) |
| Sweden | Anmärkning (SE) | (Järnoxid, respirabelt damm) |
| United Kingdom | WEL TWA (mg/m ³) | 10 mg/m ³ (Rouge, inhalable fraction) 4 mg/m ³ (Rouge, respirable fraction) 5 mg/m ³ (fume, as Fe) |
| United Kingdom | WEL STEL (mg/m ³) | 10 mg/m ³ (fume, as Fe) |
| Norway | Merknader (NO) | (Jern(III)oksid, beregnet som Fe) |
| Switzerland | Remark (CH) | (alveolengängiger Staub) |
| Potassium chloride (7447-40-7) | | |
| Lithuania | IPRV (mg/m ³) | 5 mg/m ³ |
| Talc (14807-96-6) | | |
| Austria | Remark (AT) | (alveolengängige Fraktion) |
| Belgium | Remark (BE) | (sans fibre d'amiante) |
| Finland | HTP-arvo (8h) (mg/m ³) | 2 mg/m ³ (Talkki, rakeinen; hengittävä pöly) 1 mg/m ³ (Talkki, rakeinen; alveolijae) 0.5 mg/m ³ (Talkki, kuitumainen) |
| Hungary | AK-érték | 2 mg/m ³ |
| Hungary | Megjegyzések (HU) | respirable aerosol |
| Ireland | OEL (8 hours ref) (mg/m ³) | 10 mg/m ³ total inhalable dust 0.8 mg/m ³ respirable dust |
| Lithuania | IPRV (mg/m ³) | 2 mg/m ³ (ikvėpiamoji frakcija) 1 mg/m ³ (alveolinė frakcija) |
| Netherlands | Remark (MAC) | respirable aerosol |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 2 mg/m ³ total dust, 1 1 mg/m ³ respirable dust, 1 |
| United Kingdom | Local name | Talc |
| United Kingdom | WEL TWA (mg/m ³) | 1 mg/m ³ |
| United Kingdom | Remark (WEL) | respirable aerosol |
| Norway | Grenseverdier (AN) (mg/m ³) | 3 mg/m ³ (respirabelt støv) 6 mg/m ³ (totalstøv) |

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| Talc (14807-96-6) | | |
|--|---|---|
| Switzerland | Remark (CH) | (respirable aerosol) |
| Carbon black (1333-86-4) | | |
| Belgium | Limit value (mg/m ³) | 3.5 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 3.5 mg/m ³ |
| Denmark | Anmærkninger (DK) | K |
| Finland | HTP-arvo (8h) (mg/m ³) | 3.5 mg/m ³ |
| Finland | HTP-arvo (15 min) | 7 mg/m ³ |
| France | VME (mg/m ³) | 3.5 mg/m ³ |
| Ireland | OEL (8 hours ref) (mg/m ³) | 3.5 mg/m ³ |
| Ireland | OEL (15 min ref) (mg/m ³) | 7 mg/m ³ |
| Spain | VLA-ED (mg/m ³) | 3.5 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 3 mg/m ³ |
| United Kingdom | Local name | Carbon black |
| United Kingdom | WEL TWA (mg/m ³) | 3.5 mg/m ³ |
| United Kingdom | WEL STEL (mg/m ³) | 7 mg/m ³ |
| Norway | Grenseverdier (AN) (mg/m ³) | 3.5 mg/m ³ |
| potassium sulfate (7778-80-5) | | |
| Lithuania | IPRV (mg/m ³) | 10 mg/m ³ |
| calcium sulfate (7778-18-9) | | |
| Belgium | Remark (BE) | (sulfate de) |
| Hungary | Megjegyzések (HU) | (respirable aerosol) |
| Slovakia | NPHV (priemerná) (mg/m ³) | 1.5 mg/m ³ (respirabilná frakcia) 4 mg/m ³ (inhalovateľná frakcia) |
| United Kingdom | WEL TWA (mg/m ³) | 4 mg/m ³ (respirable dust) 10 mg/m ³ (inhalable dust) |
| Switzerland | VME (mg/m ³) | 3 mg/m ³ |
| Switzerland | Remark (CH) | (respirable aerosol) |
| 1-Methoxy-2-propanol (107-98-2) | | |
| EU | IOELV TWA (mg/m ³) | 375 mg/m ³ |
| EU | IOELV TWA (ppm) | 100 ppm |
| EU | IOELV STEL (mg/m ³) | 568 mg/m ³ |
| EU | IOELV STEL (ppm) | 150 ppm |
| EU | Notes | Skin |
| Austria | MAK (mg/m ³) | 187 mg/m ³ |
| Austria | MAK (ppm) | 50 ppm |
| Austria | MAK Short time value (mg/m ³) | 187 mg/m ³ |
| Austria | MAK Short time value (ppm) | 50 ppm |
| Austria | Remark (AT) | (gemessen als Momentanwert), (H) |
| Belgium | Limit value (mg/m ³) | 375 mg/m ³ |
| Belgium | Limit value (ppm) | 100 ppm |
| Belgium | Short time value (mg/m ³) | 568 mg/m ³ |
| Belgium | Short time value (ppm) | 150 ppm |
| Belgium | Remark (BE) | D |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 270 mg/m ³ |
| Czech Republic | Expoziční limity (PEL) (ppm) | 73.17 ppm |
| Czech Republic | Expoziční limity (NPK-P) (mg/m ³) | 550 mg/m ³ |

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| 1-Methoxy-2-propanol (107-98-2) | | |
|--|---|-----------------------|
| Czech Republic | Expoziční limity (NPK-P) (ppm) | 149.05 ppm |
| Czech Republic | Remark (CZ) | D |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 185 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (ppm) | 50 ppm |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 370 mg/m ³ |
| Denmark | Grænseværdie (kortvarig) (ppm) | 100 ppm |
| Finland | HTP-arvo (8h) (mg/m ³) | 370 mg/m ³ |
| Finland | HTP-arvo (8h) (ppm) | 100 ppm |
| Finland | HTP-arvo (15 min) | 560 mg/m ³ |
| Finland | HTP-arvo (15 min) (ppm) | 150 ppm |
| Finland | Huomautus (FI) | iho |
| France | VME (mg/m ³) | 188 mg/m ³ |
| France | VME (ppm) | 50 ppm |
| France | VLE (mg/m ³) | 375 mg/m ³ |
| France | VLE (ppm) | 100 ppm |
| France | Note (FR) | Peau |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 370 mg/m ³ |
| Germany | TRGS 900 Occupational exposure limit value (ppm) | 100 ppm |
| Germany | TRGS 900 Limitation of exposure peaks (mg/m ³) | 740 mg/m ³ |
| Germany | TRGS 900 Limitation of exposure peaks (ppm) | 200 ppm |
| Hungary | AK-érték | 375 mg/m ³ |
| Hungary | CK-érték | 568 mg/m ³ |
| Ireland | OEL (8 hours ref) (mg/m ³) | 375 mg/m ³ |
| Ireland | OEL (8 hours ref) (ppm) | 100 ppm |
| Ireland | OEL (15 min ref) (mg/m ³) | 568 mg/m ³ |
| Ireland | OEL (15 min ref) (ppm) | 150 ppm |
| Lithuania | IPRV (mg/m ³) | 190 mg/m ³ |
| Lithuania | IPRV (ppm) | 50 ppm |
| Lithuania | TPRV (mg/m ³) | 300 mg/m ³ |
| Lithuania | TPRV (ppm) | 75 ppm |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 375 mg/m ³ |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 563 mg/m ³ |
| Netherlands | Remark (MAC) | (H) |
| Poland | NDS (mg/m ³) | 180 mg/m ³ |
| Poland | NDSch (mg/m ³) | 360 mg/m ³ |
| Slovakia | NPHV (priemerná) (mg/m ³) | 375 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 100 ppm |
| Slovakia | Upozornenie (SK) | (K) |
| Spain | VLA-ED (mg/m ³) | 375 mg/m ³ |
| Spain | VLA-ED (ppm) | 100 ppm |
| Spain | VLA-EC (mg/m ³) | 568 mg/m ³ |
| Spain | VLA-EC (ppm) | 150 ppm |
| Spain | Notes | vía dérmica,VLI |

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| 1-Methoxy-2-propanol (107-98-2) | | |
|---|--|---|
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 190 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 50 ppm |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 300 mg/m ³ |
| Sweden | kortidsvärde (KTV) (ppm) | 75 ppm |
| Sweden | Anmärkning (SE) | H |
| United Kingdom | WEL TWA (mg/m ³) | 375 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 100 ppm |
| United Kingdom | WEL STEL (mg/m ³) | 560 mg/m ³ |
| United Kingdom | WEL STEL (ppm) | 150 ppm |
| Norway | Grenseverdier (AN) (mg/m ³) | 180 mg/m ³ |
| Norway | Grenseverdier (AN) (ppm) | 50 ppm |
| Norway | Merknader (NO) | H |
| Switzerland | VME (mg/m ³) | 360 mg/m ³ |
| Switzerland | VME (ppm) | 100 ppm 20 ppm (urina; fine dell'esposizione / del turno) |
| Switzerland | VLE (mg/m ³) | 720 mg/m ³ |
| Switzerland | VLE (ppm) | 200 ppm |
| 1,2,4-trimethylbenzene (95-63-6) | | |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 200 mg/m ³ |
| Denmark | Grænseværdie (kortvarig) (ppm) | 40 ppm |
| Germany | TRGS 900 Limitation of exposure peaks (mg/m ³) | 200 mg/m ³ |
| Germany | TRGS 900 Limitation of exposure peaks (ppm) | 40 ppm |
| Lithuania | IPRV (mg/m ³) | 100 mg/m ³ |
| Lithuania | IPRV (ppm) | 20 ppm |
| Lithuania | Remark (LT) | Ta pati RV, iðreikðta mg/m ³ , yra taikoma kitiems polialkilbenzenams. |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 100 mg/m ³ |
| Netherlands | Grenswaarde TGG 15MIN (mg/m ³) | 200 mg/m ³ |
| Slovakia | NPHV (priemerná) (mg/m ³) | 100 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 20 ppm |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 170 mg/m ³ |
| Sweden | kortidsvärde (KTV) (ppm) | 35 ppm |
| Sweden | Anmärkning (SE) | 55 |
| United Kingdom | WEL TWA (mg/m ³) | 125 mg/m ³ |
| United Kingdom | WEL TWA (ppm) | 25 ppm |
| cumene (98-82-8) | | |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 200 mg/m ³ |
| Denmark | Grænseværdie (kortvarig) (ppm) | 40 ppm |
| Finland | Huomautus (FI) | iho |
| France | Note (FR) | Peau |
| Germany | TRGS 900 Limitation of exposure peaks (mg/m ³) | 250 mg/m ³ |
| Germany | TRGS 900 Limitation of exposure peaks (ppm) | 50 ppm |

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| cumene (98-82-8) | | |
|---|---|---|
| Germany | TRGS 903 (BGW) | 2 mg/l Isopropylbenzol (Blut; Expositionsende bzw. Schichtende) 50 mg/l 2-Phenylpropan-2-ol (Urin; Expositionsende bzw. Schichtende) |
| Slovakia | NPHV (priemerná) (mg/m ³) | 100 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 20 ppm |
| Slovakia | Upozornenie (SK) | (K) |
| Spain | VLA-ED (mg/m ³) | 100 mg/m ³ |
| Spain | VLA-ED (ppm) | 20 ppm |
| Spain | VLA-EC (mg/m ³) | 250 mg/m ³ |
| Spain | VLA-EC (ppm) | 50 ppm |
| Spain | Notes | vía dérmica, VLI |
| Sweden | Anmärkning (SE) | H |
| 2-methoxy-1-methylethyl acetate (108-65-6) | | |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 550 mg/m ³ |
| Denmark | Grænseværdie (kortvarig) (ppm) | 100 ppm |
| Finland | Huomautus (FI) | iho |
| France | Note (FR) | Peau |
| Germany | TRGS 900 Limitation of exposure peaks (mg/m ³) | 270 mg/m ³ |
| Germany | TRGS 900 Limitation of exposure peaks (ppm) | 50 ppm |
| Slovakia | NPHV (priemerná) (mg/m ³) | 275 mg/m ³ |
| Slovakia | NPHV (priemerná) (ppm) | 50 ppm |
| Slovakia | Upozornenie (SK) | (K) |
| Spain | VLA-ED (mg/m ³) | 275 mg/m ³ |
| Spain | VLA-ED (ppm) | 50 ppm |
| Spain | VLA-EC (mg/m ³) | 550 mg/m ³ |
| Spain | VLA-EC (ppm) | 100 ppm |
| Spain | Notes | VLI |
| Sweden | Anmärkning (SE) | H |
| Silicon dioxide (amorphous) (7631-86-9) | | |
| Austria | MAK (mg/m ³) | 4 mg/m ³ |
| Austria | Remark (AT) | (einatembare Fraktion) |
| Finland | HTP-arvo (8h) (mg/m ³) | 5 mg/m ³ |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 4 mg/m ³ |
| Germany | Remark (TRGS 900) | (einatembare Fraktion) |
| Ireland | OEL (8 hours ref) (mg/m ³) | 2.4 mg/m ³ 6 mg/m ³ (total inhalable dust) |
| Spain | VLA-ED (mg/m ³) | 10 mg/m ³ |
| Spain | Notes | (respirable aerosol) |
| United Kingdom | WEL TWA (mg/m ³) | 6 mg/m ³ (inhalable aerosol) 2.4 mg/m ³ (respirable aerosol) |
| Switzerland | VME (mg/m ³) | 4 mg/m ³ |
| Switzerland | Remark (CH) | (einatembarer Staub) |
| calcium carbonate (471-34-1) | | |
| France | VME (mg/m ³) | 10 mg/m ³ |
| France | Note (FR) | inhalable aerosol |
| Hungary | AK-érték | 10 mg/m ³ |

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| calcium carbonate (471-34-1) | | |
|--|---|--|
| Hungary | Megjegyzések (HU) | inhalable aerosol |
| Poland | NDS (mg/m ³) | 10 mg/m ³ |
| Poland | Remark (PL) | pyły |
| United Kingdom | WEL TWA (mg/m ³) | 10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol |
| Switzerland | VME (mg/m ³) | 3 mg/m ³ |
| Switzerland | Remark (CH) | (respirable aerosol) |
| barium sulfate (7727-43-7) | | |
| Belgium | Limit value (mg/m ³) | 10 mg/m ³ |
| Belgium | Remark (BE) | (sulfate de) |
| Ireland | OEL (8 hours ref) (mg/m ³) | 2 mg/m ³ |
| Slovakia | NPHV (priemerná) (mg/m ³) | 1.5 mg/m ³ (respirabilná frakcia) 4 mg/m ³ (inhalovateľná frakcia) |
| Spain | VLA-ED (mg/m ³) | 10 mg/m ³ |
| Spain | Notes | e |
| United Kingdom | WEL TWA (mg/m ³) | 10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol |
| Silicon dioxide (cristobalite) (14808-60-7) | | |
| Austria | MAK (mg/m ³) | 0.15 mg/m ³ |
| Austria | Remark (AT) | (alveolengängige Fraktion; Jahres-Miw) |
| Belgium | Limit value (mg/m ³) | 0.1 mg/m ³ |
| Belgium | Remark (BE) | (poussières alvéolaires) |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 0.3 mg/m ³ (inhalable aerosol) 0.1 mg/m ³ (K, respirable aerosol) |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 0.6 mg/m ³ (inhalable aerosol) 0.2 mg/m ³ (K, respirable aerosol) |
| Finland | HTP-arvo (8h) (mg/m ³) | 0.05 mg/m ³ |
| Finland | Huomautus (FI) | (alveolijae) |
| France | VME (mg/m ³) | 0.1 mg/m ³ |
| France | Note (FR) | (poussières alvéolaires de quartz) |
| Hungary | AK-érték | 0.15 mg/m ³ |
| Hungary | Megjegyzések (HU) | (respirable aerosol) |
| Ireland | OEL (8 hours ref) (mg/m ³) | 0.1 mg/m ³ |
| Lithuania | IPRV (mg/m ³) | 0.1 mg/m ³ |
| Lithuania | Remark (LT) | (piūrėk IX skyriaus 3 pastabà) |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 0.075 mg/m ³ |
| Netherlands | Remark (MAC) | (Voor respirabel stof) (kankerverwekkende stoff) |
| Poland | NDS (mg/m ³) | 2 mg/m ³ (krzemionke powyzej 50%; pyl calkowity) 0.3 mg/m ³ (krzemionke powyzej 50%; pyl respirabilny) 2 mg/m ³ (krzemionke od 2% do 50%; pyl calkowity) 0.3 mg/m ³ (krzemionke od 2% do 50%; pyl respirabilny) |
| Slovakia | NPHV (priemerná) (mg/m ³) | 0.1 mg/m ³ |
| Slovakia | Upozornenie (SK) | (Dokázaný karcinogén pre ľudí, R) |
| Spain | VLA-ED (mg/m ³) | 0.1 mg/m ³ |
| Spain | Notes | (respirable aerosol) |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 0.1 mg/m ³ |

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| Silicon dioxide (cristobalite) (14808-60-7) | | |
|---|--------------------------|--------------------------|
| Sweden | Anmärkning (SE) | (respirabelt damm; M, 1) |
| Switzerland | VME (mg/m ³) | 0.15 mg/m ³ |
| Switzerland | Remark (CH) | (respirable aerosol) |

8.2. Exposure controls

| | |
|----------------------------------|--|
| Appropriate engineering controls | : Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Provide local exhaust ventilation of closed transfer systems to minimize exposures. |
| Personal protective equipment | : Avoid all unnecessary exposure. |
| Hand protection | : It is a good industrial hygiene practice to minimize skin contact. If dust is formed: Wear dust impervious gloves. EN 374. |
| Eye protection | : In case of dust production: protective goggles. EN 166. |
| Respiratory protection | : In case of inadequate ventilation wear respiratory protection. Use air-purifying respirator equipped with particulate filtering cartridges. EN 12083. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|-------------------------------|
| Physical state | : Solid |
| Appearance | : A solid crayon-like marker. |
| Colour | : Various. |
| Odour | : odourless. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : Various |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : > 1 |
| Solubility | : No data available |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

| | |
|-------------|-------|
| VOC content | : 0 % |
|-------------|-------|

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Avoid creating or spreading dust. Direct sunlight. Keep away from sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. metallic oxides. Potassium oxides. Sulphur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Oral: Not classified. Dermal: Not classified. Inhalation:dust,mist: Not classified. (Based on available data, the classification criteria are not met)

| | |
|--|--------------------------------------|
| 2',4'-dimethylacetanilide (97-36-9) | |
| LD50 oral rat | 1995 mg/kg |
| ATE CLP (oral) | 1995.000 mg/kg bodyweight |
| adipic acid (124-04-9) | |
| LD50 oral rat | 5560 mg/kg |
| LD50 dermal rabbit | 7940 ml/kg |
| LC50 inhalation rat (mg/l) | > 7.7 mg/l/4h |
| ATE CLP (oral) | 5560.000 mg/kg bodyweight |
| limestone (1317-65-3) | |
| LD50 oral rat | 6450 mg/kg |
| ATE CLP (oral) | 6450.000 mg/kg bodyweight |
| Iron oxide red (1309-37-1) | |
| LD50 oral rat | > 10000 mg/kg |
| Potassium chloride (7447-40-7) | |
| LD50 oral rat | 3020 mg/kg |
| ATE CLP (oral) | 3020.000 mg/kg bodyweight |
| Sodium sulfate (7757-82-6) | |
| LD50 oral rat | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | > 2.4 mg/l/4h |
| Carbon black (1333-86-4) | |
| LD50 oral rat | > 8000 mg/kg |
| LC50 inhalation rat (mg/l) | > 4.6 mg/m ³ 4 h |
| Sodium chloride (7647-14-5) | |
| LD50 oral rat | 3550 mg/kg |
| LD50 dermal rat | > 10000 mg/kg |
| LC50 inhalation rat (mg/l) | > 42 mg/l/4h 1 hour |
| LC50 inhalation rat (Dust/Mist - mg/l/4h) | 10.5 mg/l/4h |
| ATE CLP (oral) | 3550.000 mg/kg bodyweight |
| ATE CLP (dust,mist) | 10.500 mg/l/4h |
| potassium sulfate (7778-80-5) | |
| LD50 oral rat | > 2000 mg/kg OECD 425 |
| LD50 dermal rat | > 2000 mg/kg OECD Test Guideline 402 |

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| | |
|--|--------------------------------------|
| potassium sulfate (7778-80-5) | |
| LC50 inhalation rat (mg/l) | > 1.2 mg/l/4h OECD Guideline 433 |
| calcium sulfate (7778-18-9) | |
| LD50 oral rat | > 1581 mg/kg No mortality observed |
| LC50 inhalation rat (mg/l) | > 3.26 mg/l/4h No mortality observed |
| 1-[(2,4-dinitrophenyl)azo]-2-naphthol C.I. Pigment Orange 5 (3468-63-1) | |
| LD50 oral rat | > 15000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| 1-Methoxy-2-propanol (107-98-2) | |
| LD50 oral rat | 4016 mg/kg bodyweight |
| LD50 dermal rat | > 2000 mg/kg bodyweight |
| LC50 inhalation rat (ppm) | > 7000 ppm 6 hr |
| ATE CLP (oral) | 4016.000 mg/kg bodyweight |
| Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6) | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | > 5610 mg/l/4h |
| 1,2,4-trimethylbenzene (95-63-6) | |
| LD50 oral rat | 3415 mg/kg |
| LD50 dermal rat | 3440 mg/kg |
| LC50 inhalation rat (ppm) | 954 ppm |
| ATE CLP (oral) | 3415.000 mg/kg bodyweight |
| ATE CLP (dermal) | 3440.000 mg/kg bodyweight |
| ATE CLP (dust,mist) | 1.500 mg/l/4h |
| cumene (98-82-8) | |
| LD50 oral rat | 4000 mg/kg |
| LD50 dermal rabbit | 10600 mg/kg |
| LC50 inhalation rat (mg/l) | 22.1 mg/l |
| LC50 inhalation rat (ppm) | 4510 ppm/4h |
| ATE CLP (oral) | 4000.000 mg/kg bodyweight |
| ATE CLP (dermal) | 10600.000 mg/kg bodyweight |
| ATE CLP (gases) | 4510.000 ppmv/4h |
| ATE CLP (vapours) | 22.100 mg/l/4h |
| ATE CLP (dust,mist) | 22.100 mg/l/4h |
| 2-methoxy-1-methylethyl acetate (108-65-6) | |
| LD50 oral rat | 8532 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 inhalation rat (ppm) | 4345 ppm 6 h |
| ATE CLP (oral) | 8532.000 mg/kg bodyweight |
| Silicon dioxide (amorphous) (7631-86-9) | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | > 58.8 mg/l/4h |
| calcium carbonate (471-34-1) | |
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 inhalation rat (mg/l) | > 3 mg/l/4h |
| barium sulfate (7727-43-7) | |
| LD50 oral rat | 307 g/kg |

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| barium sulfate (7727-43-7) | |
|-----------------------------------|-----------------------------|
| LD50 dermal rat | > 2000 mg/kg |
| ATE CLP (oral) | 307000.000 mg/kg bodyweight |

| myristic acid (544-63-8) | |
|---------------------------------|---------------|
| LD50 oral rat | > 10000 mg/kg |

| | |
|--|--|
| Skin corrosion/irritation | : Not classified (Based on available data, the classification criteria are not met) |
| Serious eye damage/irritation | : Not classified (Based on available data, the classification criteria are not met) |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity | : Not classified. (Based on available data, the classification criteria are not met) |
| Carcinogenicity | : Not classified. (Based on available data, the classification criteria are not met) |

| calcium sulfate (7778-18-9) | |
|---|-----------------------|
| NOAEL (chronic, oral, animal/male, 2 years) | 8400 mg/kg bodyweight |

| barium sulfate (7727-43-7) | |
|---|---------------------|
| NOAEL (chronic, oral, animal/male, 2 years) | 60 mg/kg bodyweight |
| NOAEL (chronic, oral, animal/female, 2 years) | 75 mg/kg bodyweight |

| | |
|---|---|
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met) |
| Specific target organ toxicity (single exposure) | : Not classified (Based on available data, the classification criteria are not met) |

| potassium sulfate (7778-80-5) | |
|--------------------------------------|---|
| NOAEL (oral, rat) | >= 1500 mg/kg bodyweight Animal testing did not show any effects on fertility, mutagenic, or teratogenic effects. |

| | |
|---|---|
| Specific target organ toxicity (repeated exposure) | : Not classified (Based on available data, the classification criteria are not met) |
|---|---|

| adipic acid (124-04-9) | |
|-------------------------------|--------------------------|
| NOAEL (oral, rat, 90 days) | 750 mg/kg bodyweight/day |

| potassium sulfate (7778-80-5) | |
|--------------------------------------|--------------------------|
| NOAEL (oral, rat, 90 days) | 256 mg/kg bodyweight/day |

| | |
|--------------------------|---|
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) |
|--------------------------|---|

SECTION 12: Ecological information

12.1. Toxicity

| 2',4'-dimethylacetanilide (97-36-9) | |
|--|----------------------|
| LC50 fish 1 | 250 (250 - 350) mg/l |

| adipic acid (124-04-9) | |
|-------------------------------|-------------------|
| LC50 fish 1 | >= 1000 mg/l 96 h |
| EC50 Daphnia 1 | 46 mg/l 48 h |

| limestone (1317-65-3) | |
|------------------------------|------------|
| LC50 fish 1 | > 200 mg/l |

| Iron oxide red (1309-37-1) | |
|-----------------------------------|------------|
| EC50 Daphnia 1 | > 100 mg/l |

| Potassium chloride (7447-40-7) | |
|---------------------------------------|------------------------------------|
| LC50 fish 1 | 880 mg/l Pimephales promelas 96 hr |
| EC50 Daphnia 1 | 440 - 880 48 hr |
| ErC50 (algae) | > 100 mg/l |
| NOEC (chronic) | 500 mg/l 7 day |

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| | |
|--|--|
| Sodium chloride (7647-14-5) | |
| LC50 fish 1 | 5840 mg/l 96 hour; Lepomis macrochirus |
| EC50 Daphnia 1 | 4136 mg/l 48 h |
| NOEC (acute) | 1500 mg/l Daphnia; 7 d |
| NOEC chronic fish | 252 mg/l 33 day |
| potassium sulfate (7778-80-5) | |
| LC50 fish 1 | 680 mg/l 96h Pimephales promelas |
| EC50 Daphnia 1 | 720 mg/l 48h |
| ErC50 (algae) | 2700 mg/l Chlorella vulgaris |
| calcium sulfate (7778-18-9) | |
| LC50 fish 1 | > 56000 mg/l 96 h |
| 1-[(2,4-dinitrophenyl)azo]-2-naphthol C.I. Pigment Orange 5 (3468-63-1) | |
| LC50 fish 1 | > 400 mg/l 48 h |
| EC50 Daphnia 1 | > 100 mg/l 24 h |
| 1-Methoxy-2-propanol (107-98-2) | |
| LC50 fish 1 | 20800 mg/l |
| EC50 Daphnia 1 | 23300 mg/l |
| ErC50 (algae) | > 1000 mg/l |
| Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6) | |
| LC50 fish 1 | 8.2 mg/l |
| EC50 Daphnia 1 | 4.5 mg/l |
| EC50 other aquatic organisms 1 | 3.7 mg/l |
| NOEC (acute) | 0.5 mg/l |
| 1,2,4-trimethylbenzene (95-63-6) | |
| LC50 fish 1 | 7.72 mg/l |
| LC50 other aquatic organisms 1 | 3.6 mg/l |
| EC50 other aquatic organisms 1 | 2.356 mg/l |
| cumene (98-82-8) | |
| LC50 fish 1 | 4.8 mg/l |
| EC50 other aquatic organisms 1 | 2.14 mg/l |
| NOEC (acute) | 1.9 mg/l |
| 2-methoxy-1-methylethyl acetate (108-65-6) | |
| LC50 fish 1 | 100 - 180 mg/l |
| EC50 Daphnia 1 | > 500 mg/l 48 h |
| ErC50 (algae) | > 1000 mg/l |
| Silicon dioxide (amorphous) (7631-86-9) | |
| LC50 fish 1 | > 10000 mg/l |
| EC50 Daphnia 1 | > 1000 mg/l |
| calcium carbonate (471-34-1) | |
| LC50 fish 1 | > 100 % v/v, 96 h |
| EC50 Daphnia 1 | > 100 % v/v, 48 h |
| barium sulfate (7727-43-7) | |
| LC50 fish 1 | > 3.5 mg/l 96 h |
| EC50 Daphnia 1 | 14500 µg/l 48 h |
| myristic acid (544-63-8) | |
| LC50 fish 1 | > 10000 mg/l 48 h |
| EC50 Daphnia 1 | > 27 mg/l 16 h |

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12.2. Persistence and degradability

| | |
|--|---|
| 2',4'-dimethylacetoacetanilide (97-36-9) | |
| Biodegradation | 25 % 28 d |
| adipic acid (124-04-9) | |
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 90 % 5 d |
| limestone (1317-65-3) | |
| Persistence and degradability | Not readily biodegradable. |
| Carbon black (1333-86-4) | |
| Persistence and degradability | Not readily biodegradable. |
| 1-[(2,4-dinitrophenyl)azo]-2-naphthol C.I. Pigment Orange 5 (3468-63-1) | |
| Persistence and degradability | Readily biodegradable. |
| 1-Methoxy-2-propanol (107-98-2) | |
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 96 % 28 d |
| Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6) | |
| Persistence and degradability | Not established. |
| cumene (98-82-8) | |
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| 2-methoxy-1-methylethyl acetate (108-65-6) | |
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 89 % 10 d |
| Silicon dioxide (amorphous) (7631-86-9) | |
| Persistence and degradability | Product persists. |
| myristic acid (544-63-8) | |
| Persistence and degradability | Readily biodegradable. |
| Biodegradation | 99 % 15 d |

12.3. Bioaccumulative potential

| | |
|--|---------------------------------------|
| 2',4'-dimethylacetoacetanilide (97-36-9) | |
| Log Pow | 1.4 |
| adipic acid (124-04-9) | |
| BCF fish 1 | 3.162 |
| Log Pow | 0.093 |
| limestone (1317-65-3) | |
| Bioaccumulative potential | Does not bioaccumulate significantly. |
| Sodium sulfate (7757-82-6) | |
| Bioconcentration factor (BCF REACH) | 0.5 |
| Bioaccumulative potential | Not expected to bioaccumulate. |
| potassium sulfate (7778-80-5) | |
| Bioaccumulative potential | This product is not bioaccumulating. |
| 1-[(2,4-dinitrophenyl)azo]-2-naphthol C.I. Pigment Orange 5 (3468-63-1) | |
| BCF fish 1 | < 2.9 l/kg |
| Log Pow | 2.45 |
| 1-Methoxy-2-propanol (107-98-2) | |
| Bioaccumulative potential | Not expected to bioaccumulate. |

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| | |
|--|------------------|
| Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6) | |
| Bioaccumulative potential | Not established. |
| cumene (98-82-8) | |
| Bioaccumulative potential | Not established. |
| 2-methoxy-1-methylethyl acetate (108-65-6) | |
| Log Pow | 0.43 |
| barium sulfate (7727-43-7) | |
| BCF fish 1 | 68.4 L/kg |
| myristic acid (544-63-8) | |
| Log Pow | 5.2 (5.2 - 6.11) |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

| | |
|--|---|
| Thermomelt® HEAT-STIK Markers : 113 °F, 125 °F, 131 °F, 138 °F, 156 °F, 163 °F, 188 °F, 194 °F, 238 °F, 256 °F, 269 °F, 319 °F, 325 °F, 331 °F, 338 °F, 344 °F, 350 °F, 375 °F, 425 °F, 438 °F, 525 °F, 600 °F, 650 °F, 850 °F, 900 °F, 932 °F, 950 °F, 1000 °F, 1022 °F, 1100 °F, 1150 °F, 1200 °F, 1250 °F, 1300 °F, 1350 °F, 1400 °F, 1425 °F, 1450 °F, 1480 °F, 1500 °F, 1550 °F, 1600 °F, 1650 °F, 1700 °F, 1850 °F, 1900 °F, 1950 °F, 2000 °F, 2050 °F, 2200 °F | |
| PBT: not yet assessed | |
| vPvB: not yet assessed | |
| Component | |
| Potassium chloride (7447-40-7) | PBT: not relevant – no registration required vPvB: not relevant – no registration required |
| Sodium chloride (7647-14-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| potassium sulfate (7778-80-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

12.6. Other adverse effects

No additional information 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. |

SECTION 14: Transport information

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

14.1. UN number

Not considered a dangerous good for transport regulations

14.2. UN proper shipping name

Proper Shipping Name (ADR) :

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

Thermomelt® HEAT-STIK Markers : 113 °F, 125 °F, 131 °F, 138 °F, 156 °F, 163 °F, 188 °F, 194 °F, 238 °F, 256 °F, 269 °F, 319 °F, 325 °F, 331 °F, 338 °F, 344 °F, 350 °F, 375 °F, 425 °F, 438 °F, 525 °F, 600 °F, 650 °F, 850 °F, 900 °F, 932 °F, 950 °F, 1000 °F, 1022 °F, 1100 °F, 1150 °F, 1200 °F, 1250 °F, 1300 °F, 1350 °F, 1400 °F, 1425 °F, 1450 °F, 1480 °F, 1500 °F, 1550 °F, 1600 °F, 1650 °F, 1700 °F, 1850 °F, 1900 °F, 1950 °F, 2000 °F, 2050 °F, 2200 °F

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14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Inland waterway transport

Carriage prohibited (ADN) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

VOC content : 0 %

15.1.2. National regulations

Germany

Water hazard class (WGK) : 1 - low hazard to waters

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

according to Regulation (EU) 2015/830

Indication of changes:

Added. Product.

Abbreviations and acronyms:

| | |
|--|---|
| | ACGIH (American Conference of Government Industrial Hygienists) |
| | 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 |
| | PNEC: Predicted No Effect Level |
| | STEL: Short Term Exposure Limits |
| | TSCA: Toxic Substances Control Act |
| | TWA: Time Weighted Average |

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Data sources

: ACGIH 2000.

Canadian Centre for Occupational Health and Safety. Accessed at: http://www.ccohs.ca/oshanswers/legisl/whmis_classifi.html.

ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>).

European Chemicals Agency (ECHA) Registered Substances list. Accessed at <http://echa.europa.eu/>. 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.

OSHA 29CFR 1910.1200 Hazard Communication Standard.

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.

TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>.

Other information

: None.

Full text of R-, H- and EUH-statements:

| | |
|-------------------------------------|--|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Carc. 1A | Carcinogenicity (inhalation) Category 1A |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H226 | Flammable liquid and vapour |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |
| H350i | May cause cancer by inhalation |
| H351 | Suspected of causing cancer |
| H411 | Toxic to aquatic life with long lasting effects |
| EUH210 | Safety data sheet available on request |
| R10 | Flammable |
| R22 | Harmful if swallowed |
| R36 | Irritating to eyes |
| R36/37/38 | Irritating to eyes, respiratory system and skin |
| R36/38 | Irritating to eyes and skin |
| R37 | Irritating to respiratory system |
| R40 | Limited evidence of a carcinogenic effect |
| R45 | May cause cancer |
| R46 | May cause heritable genetic damage |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |

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| | |
|-----|---|
| R65 | Harmful: may cause lung damage if swallowed |
| R67 | Vapours may cause drowsiness and dizziness |
| N | Dangerous for the environment |
| Xi | Irritant |
| Xn | Harmful |

LA-CO EU CLP SDS

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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