

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
 Product name. : M Paintstik® Red

**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 : Marking.

**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/Antigifcentrum 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
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	Gifflinjen 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, Nagyváradi 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

# M Paintstik® Red

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

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)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Aquatic Chronic 3 H412

Full text of H-phrases: see section 16

#### Classification according to Directive 67/548/EEC or 1999/45/EC

R52/53

Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

Signal word (CLP) : -

Hazardous ingredients : Iron oxide red

Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) : P273 - Avoid release to the environment  
P501 - Dispose of contents/container in accordance with local and national regulations

### 2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

Components with health hazards above the applicable thresholds or with Exposure Limits are shown. Exact concentrations withheld as trade secret.

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
barite	(CAS No) 13462-86-7 (EC no) 236-664-5	30 – 40	Not classified	Not classified
Iron oxide red	(CAS No) 1309-37-1 (EC no) 215-168-2	10 – 20	N; R51/53	Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
nickel dihydroxide	(CAS No) 12054-48-7 (EC no) 235-008-5 (EC index no) 028-008-00-X	< 0.01	Carc.Cat.1; R49 Repr.Cat.2; R61 Muta.Cat.3; R68 T; R48/23 Xn; R20/22 Xi; R38 R42 R43 N; R50/53	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1A, H350i Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of R-, H- and EUH-phrases: 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. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- 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 : Drink plenty of water. Call a POISON CENTER/doctor/physician if you feel unwell.

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

- Symptoms/injuries after inhalation : Inhalation may cause: irritation, coughing, shortness of breath.
- Symptoms/injuries after eye contact : Fumes and dust : May cause slight irritation.

#### 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.
- Unsuitable extinguishing media : None known.

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

- Fire hazard : No particular fire or explosion hazard.
- Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

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

### SECTION 6: Accidental release measures

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

- General measures : Avoid creating or spreading dust.

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

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Do not discharge into drains or the environment.

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

- For containment : Contain and collect as any solid.
- Methods for cleaning up : 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.

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### 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 : Store in a dry, cool and well-ventilated place.  
Incompatible products : Strong oxidizers.

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

Marking.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

barite (13462-86-7)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Iron oxide red (1309-37-1)		
Austria	Local name	Iron oxide fume (Fe <sub>2</sub> O <sub>3</sub> ) (as Fe)
Austria	MAK (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Austria	MAK Short time value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Belgium	Local name	Fer (trioxyde de) (fumées) (en Fe)
Belgium	Limit value (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	2 ppm
Belgium	Remark*	(trioxyde de; fumées, en Fe)
Bulgaria	Local name	Желязо-оксиди (като желязо)
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
France	Local name	Fer (trioxyde de di-,fumées),en Fe
France	VME (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Greece	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Greece	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Italy - Portugal - USA ACGIH	Local name	Iron oxide (Fe O )
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Pneumoconiosis
Spain	Local name	Óxido de hierro(III) (polvo y humos), como Fe
Spain	VLA-ED (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Spain	Notes	(Óxido de hierro(III) (polvo y humos), como Fe)
Switzerland	Local name	Oxydes de fer
Switzerland	VME (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Switzerland	Remark (CH)	(alveolengängiger Staub)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Rouge, inhalable fraction) 4 mg/m <sup>3</sup> (Rouge, respirable fraction) 5 mg/m <sup>3</sup> (fume, as Fe)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (fume, as Fe)
Denmark	Local name	Jernoxid, beregnet som Fe
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	7 mg/m <sup>3</sup>
Denmark	Anmærkninger (DK)	(Jernoxid, total dust)
Finland	Local name	Rautaoksidi, huurut
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Finland	Huomautus (FI)	(Fe)
Hungary	Local name	VAS(III)-OXID (Fe-ra számítva)
Hungary	AK-érték	6 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	(respirábilis por)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Iron oxide, fume as Fe) 10 mg/m <sup>3</sup> (Rouge total inhalable dust) 4 mg/m <sup>3</sup> (Rouge total respirable dust)
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Iron oxide, fume as Fe)
Lithuania	Local name	Geležies oksidas (kaip Fe), alveolinė frakcija

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barite (13462-86-7)		
Lithuania	IPRV (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
Lithuania	Remark (LT)	(biūrėk IX skyriaus 3 pastabà.)
Norway	Local name	Jern(III)oksid (beregnet som Fe)
Norway	Gjennomsnittsverdier (AN) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Norway	Merknader (NO)	(Jern(III)oksid, beregnet som Fe)
Poland	Local name	Tlenki żelaza w przeliczeniu na Fe dymy
Poland	NDS (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Poland	Remark (PL)	(dymy)
Romania	Local name	Oxid feric (fumuri, pulberi)
Romania	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Romania	OEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	1.5 mg/m <sup>3</sup> (respirabilná frakcia) 4 mg/m <sup>3</sup> (inhalovateľná frakcia)
Sweden	Local name	Iron oxide (as Fe) respirable dust
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	3.5 mg/m <sup>3</sup>
Sweden	Anmärkning (SE)	(Järnoxid, respirabelt damm)
Portugal	Local name	Óxido de ferro
Portugal	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
nickel dihydroxide (12054-48-7)		
France	Local name	Nickel (dihydroxyde de),en Ni
France	VME (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> insoluble inorganic compounds, as Ni
Spain	Local name	Dihidróxido de níquel, como Ni
Spain	VLA-ED (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
Spain	Notes	C1
Finland	Local name	Nikkeli-(II)-hydroksidi
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
Finland	Huomautus (FI)	Ni

### 8.2. Exposure controls

Appropriate engineering controls	: Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Either local exhaust or general room ventilation is usually required.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: It is a good industrial hygiene practice to minimize skin contact. In case of repeated or prolonged contact wear gloves. Use rubber 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	: red.
Odour	: Oily
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 66 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 204 °C
Self ignition temperature	: 343 °C
Decomposition temperature	: No data available

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Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: insoluble in water.
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.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous Polymerization may occur.

### 10.4. Conditions to avoid

Heat. Open flame.

### 10.5. Incompatible materials

Strong oxidizers.

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity** : Not classified

<b>barite (13462-86-7)</b>	
LD50 oral rat	15000 mg/kg
ATE (oral)	15000.000 mg/kg bodyweight
<b>Iron oxide red (1309-37-1)</b>	
LD50 oral rat	> 10000 mg/kg
<b>nickel dihydroxide (12054-48-7)</b>	
LD50 oral rat	1515 mg/kg
LD50 dermal rat	> 2 g/kg
LC50 inhalation rat (mg/l)	1200 mg/m <sup>3</sup> 4 h
ATE (oral)	1515.000 mg/kg bodyweight
ATE (dust,mist)	1.500 mg/l/4h

**Skin corrosion/irritation** : Not classified

**Serious eye damage/irritation** : Not classified

**Respiratory or skin sensitisation** : Not classified

**Germ cell mutagenicity** : Not classified

**Carcinogenicity** : Not classified

<b>nickel dihydroxide (12054-48-7)</b>	
NOAEL (chronic,oral, animal/male,2 years)	2.2 mg/kg bodyweight read across Nickel Sulphate Hexahydrate
NOAEL (chronic,oral, animal/female,2 years)	2.2 mg/kg bodyweight read across Nickel Sulphate Hexahydrate

**Reproductive toxicity** : Not classified

**Specific target organ toxicity (single exposure)** : Not classified

**Specific target organ toxicity (repeated exposure)** : Not classified

**Aspiration hazard** : Not classified

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

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

EC50 Daphnia 1 > 100 mg/l

##### nickel dihydroxide (12054-48-7)

LC50 fishes 1 15.3 mg/l 96 h

EC50 Daphnia 1 > 200 µg/l 48 h

#### 12.2. Persistence and degradability

##### M Paintstik® Red

Persistence and degradability May cause long-term adverse effects in the environment.

##### barite (13462-86-7)

Persistence and degradability Not readily biodegradable.

##### nickel dihydroxide (12054-48-7)

Persistence and degradability Not readily biodegradable.

#### 12.3. Bioaccumulative potential

##### barite (13462-86-7)

Bioaccumulative potential Does not bioaccumulate significantly.

##### nickel dihydroxide (12054-48-7)

BCF fish 1 600 - 26500 whole body d.w.; 0 to 26 day exposure

#### 12.4. Mobility in soil

No additional information available

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

##### M Paintstik® Red

PBT: not yet assessed

vPvB: not yet assessed

#### 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.

EURLW code : For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

H code : H14 - 'Ecotoxic': waste which presents or may present immediate or delayed risks for one or more sectors of the environment.

### SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

#### 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.

#### 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

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### 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 substances with Annex XVII restrictions

M Paintstik® Red is not on the REACH Candidate List

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

VOC content : 0 %

#### 15.1.2. National regulations

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

All ingredients are listed in the Toxic Substances Control Act (TSCA).

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

#### Germany

Water hazard class (WGK) : 1 - slightly hazardous to water

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

Indication of changes:

Original Document.

Data sources

: ACGIH 2000.

Canadian Centre for Occupational Health and Safety. Accessed at:

[http://www.ccohs.ca/oshanswers/legisl/whmis\\_classifi.html](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>.

Abbreviations and acronyms

: ACGIH (American Conference of Government Industrial Hygienists).

ATE: Acute Toxicity Estimate.

CAS (Chemical Abstracts Service) number.

CLP: Classification, Labelling, Packaging.

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.

STEL: Short Term Exposure Limits.

TSCA: Toxic Substances Control Act.

TWA: Time Weight Average.

Other information

: None.

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



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Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Carc. 1A	Carcinogenicity (inhalation) Category 1A
Muta. 2	Germ cell mutagenicity Category 2
Repr. 1B	Reproductive toxicity Category 1B
Resp. Sens. 1	Respiratory sensitisation Category 1
Skin Irrit. 2	skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitisation Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H341	Suspected of causing genetic defects
H350i	May cause cancer by inhalation
H360D	May damage the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
R20/22	Harmful by inhalation and if swallowed.
R38	Irritating to skin.
R42	May cause sensitization by inhalation.
R43	May cause sensitisation by skin contact.
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R49	May cause cancer by inhalation.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61	May cause harm to the unborn child.
R68	Possible risk of irreversible effects.
N	Dangerous for the environment
T	Toxic
Xi	Irritant
Xn	Harmful.

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

Aquatic Chronic 3	H412	Calculation method
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LA-CO EU CLP SDS

*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.*