



Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 28.06.2024

Version number 14.0 (replaces version 13.0)

Revision: 28.06.2024

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

- **1.1 Product identifier**
- **Trade name: KEIM DEKORFARBPULVER**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Paint-powder for two componet silicate paint
- **Uses advised against** All other uses are not recommended.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
KEIMFARBEN GMBH
Keimstraße 16 / 86420 Diedorf
Tel. +49 (0)821 4802-0
Fax +49 (0)821 4802-210
www.keim.com / info@keimfarben.de
- **Further information obtainable from:**
Product safety department
Telefon: 49(0)821/4802-138
E-Mail: sdb.info@keimfarben.de
- **1.4 Emergency telephone number:**
GBK GmbH Global Regulatory Compliance
Emergency number: +49(0)6132/84463

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements**
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P102 Keep out of reach of children.
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with regional/national regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

· **Description:** Paint powder based on silicatic and calcitic fillers as well as inorganic paint pigments

· **Dangerous components:**

CAS: 7727-43-7 EINECS: 231-784-4 Reg.nr.: 01-2119491274-35	barium sulphate, natural substance with a Community workplace exposure limit	≥5-≤15%
CAS: 1309-37-1 EINECS: 215-168-2 Reg.nr.: 01-2119457614-35-XXXX	diiron trioxide substance with a Community workplace exposure limit	0-40%
CAS: 8007-18-9 EC number: 701-459-6 Index number: 051-003-00-9 Reg.nr.: 01-2119491302-44-0000	Antimony nickel titanium oxide, yellow substance with a Community workplace exposure limit	0-40%
CAS: 1308-38-9 EINECS: 215-160-9 Reg.nr.: 01-2119433951-39-XXXX	dichromium trioxide substance with a Community workplace exposure limit	0-40%
CAS: 1314-98-3 EINECS: 215-251-3 Reg.nr.: 01-2119475779-15-xxxx	zinc sulphide substance with a Community workplace exposure limit	≤5%
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7 Reg.nr.: 01-2119463881-32-XXXX	zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.25-≤2%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

· **General information:**

Seek medical treatment in case of complaints.

When seeing the doctor we suggest to present this safety data sheet.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Wash off immediately with water and soap and rinse well afterwards.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

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- **After swallowing:**
Rinse mouth and throat well with water.
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Special protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
In case of fire do not breathe smoke, fumes and vapours.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Avoid formation of dust.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Respect the protection rules (see section 7 and 8).
Avoid contact with skin and eyes.
Do not inhale dust.
- **6.2 Environmental precautions:**
Do not allow product to reach soil, sewage system or any water course.
Follow local governmental rules and regulations.
- **6.3 Methods and material for containment and cleaning up:**
Close drainages (risk of blocking)
Pick up mechanically.
Dispose of the material collected according to regulations.
Clear contaminated areas thoroughly.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep receptacles tightly sealed.

Do not inhale dust.

Prevent formation of dust.

Avoid contact with skin and eyes.

See item 8 (8.2) for information about suitable protective equipment and technical precautions.

Respect the protection rules.

Information about fire - and explosion protection:

The product is not flammable.

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Keep in the original containers in a cool and dry place.

Suitable material for receptacles:

Paper

Polyethylene

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Avoid dust formations and deposits.

Protect from humidity and water.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Protect from frost.

Storage class: 13

GISCode -

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

General dust limit (Germany): Long-term value: $1.25 \cdot 10^{-2}$ mg / m³ 2 (II);

* respirable fraction ** inhalable fraction

The national general dust limit value must be observed.

7727-43-7 barium sulphate, natural

AGW (Germany)	Long-term value: $1.25 \cdot 10^{-2}$ mg/m ³ 2(II);*alveolengängig**einatembar; AGS, DFG, Y
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1309-37-1 diiron trioxide

AGW (Germany)	Long-term value: $1.25 \cdot 10^{-2}$ mg/m ³ 2(II);*alveolengängig**einatembar; AGS, DFG, Y
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8007-18-9 Antimony nickel titanium oxide, yellow

BOELV (EU)	Long-term value: 0.1* mg/m ³ as Ni; sens. dermal/resp. *inhalable
MAK (Germany)	vgl. Abschn. IIb

1308-38-9 dichromium trioxide

IOELV (EU)	Long-term value: 2 mg/m ³ as Cr
AGW (Germany)	Long-term value: 2 E mg/m ³ 1(I);10, EU

1314-98-3 zinc sulphide

MAK (Germany)	Long-term value: 0.1A* 2E** mg/m ³ *alveolengängig; **einatembar
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1314-13-2 zinc oxide

MAK (Germany)	Long-term value: 1A mg/m ³ Rauch
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· DNELs

7727-43-7 barium sulphate, natural

Oral	Long-term - systemic effects	13,000 mg/kg bw/day (consumer)
Inhalative	Long-term - systemic effects	10 mg/m ³ (worker)
	Long-term - systemic effects	10 mg/m ³ (consumer)
	Long-term - local effects	10 mg/m ³ (worker)

1309-37-1 diiron trioxide

Inhalative	Long-term - local effects	10 mg/m ³ (worker)
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8007-18-9 Antimony nickel titanium oxide, yellow

Inhalative	Long-term - local effects	4 mg/m ³ (worker)
	Long-term - local effects	3 mg/m ³ (consumer)

· PNECs

7727-43-7 barium sulphate, natural

Aquatic compartment - freshwater	0.115 mg/l (Freshwater)
Aquatic compartment - sediment in freshwater	600.4 mg/kg sed dw (Freshwater sediment)
Terrestrial compartment - soil	207.7 mg/kg dw (soil)
Sewage treatment plant	62.2 mg/l (Sewage treatment plant) (Ba)

8007-18-9 Antimony nickel titanium oxide, yellow

Aquatic compartment - freshwater	0.1 mg/l (Freshwater)
Aquatic compartment - marine water	0.01 mg/l (Seawater)
Aquatic compartment - water, intermittent releases	1 mg/l (not specified)
Sewage treatment plant	568 mg/l (Sewage treatment plant)

1314-13-2 zinc oxide

Aquatic compartment - freshwater	0.0179 mg/l (Freshwater)
Aquatic compartment - marine water	0.009 mg/l (Seawater)

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Aquatic compartment - sediment in freshwater	182.8 mg/kg sed dw (Freshwater sediment)
Aquatic compartment - sediment in marine water	201.9 mg/kg sed dw (Marine sediment)
Terrestrial compartment - soil	103.4 mg/kg dw (soil)
Sewage treatment plant	0.1245 mg/l (Sewage treatment plant)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale dust / smoke / mist.

· **Respiratory protection:**

Filter: P2

In a dusty environment wear suitable facemask.

· **Hand protection** Protective gloves

· **Material of gloves**

suitable material e.g.:

Nitrile impregnated cotton-gloves

PVC or PE gloves

Recommended thickness of the material: ≥ 0.5 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

Value for the permeation: level ≥ 6 (480 min)

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**

In a dusty environment wear protective goggles.

Tightly sealed goggles

· **Body protection:** Protective work clothing

· **Environmental exposure controls**

See Section 12 and 6.2

No further relevant information available.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Solid

· **Colour:**

Different, according to colouring.

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· Odour:	Odourless
· Melting point/freezing point:	>1,300 °C
· Boiling point or initial boiling point and boiling range	Not applicable. Not determined
· Flammability	Product is not flammable.
· Lower and upper explosion limit	
· Lower:	Not applicable
· Upper:	Not applicable
· Flash point:	Not applicable
· Auto-ignition temperature:	Not determined
· Decomposition temperature:	Not determined
· pH	Not applicable.
· Viscosity:	
· Kinematic viscosity	Not applicable
· Dynamic:	Not applicable
· Solubility	
· water:	Insoluble
· Partition coefficient n-octanol/water (log value)	Not applicable
· Vapour pressure:	Not applicable.
· Density and/or relative density	
· Density at 20 °C:	0.7* g/cm ³ Compacted density
· Relative density	Not determined
· Bulk density:	900-1,000* kg/m ³
· Vapour density	Not applicable.
· Particle characteristics	
See section 3.	
· 9.2 Other information	* The values are for freshly produced material and may change with the time.
· Appearance:	
· Form:	Powder
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Softening point/range	
· Oxidising properties:	Not applicable
· Evaporation rate	Not applicable.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void

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· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions of storage and use.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Humidity
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
No hazardous decomposition products if stored and handled as prescribed.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:**7727-43-7 barium sulphate, natural**

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat)
	NOAEL	>104 mg/kg (rat) (90d)

1309-37-1 diiron trioxide

Oral	LD50	>5,000 mg/kg (rat)
Inhalative	LC 50/2Wochen	>210 mg/m ³ (rat)

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8007-18-9 Antimony nickel titanium oxide, yellow		
Oral	LD50	>10,000 mg/kg (rat)
1308-38-9 dichromium trioxide		
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Inhalative	LC50/4 h	>5.41 mg/l /OECD 403 (rat) (Dust / Fog)
	LOAEL	44 mg/l /90d (rat) (Dust / Fog)
1314-98-3 zinc sulphide		
Oral	LD50	>15,000 mg/kg (rat) (OECD 401)
Inhalative	LC50/4 h	>5.7 mg/l /OECD 403 (rat) (Dust / Fog)
1314-13-2 zinc oxide		
Oral	LD50	>5,000 mg/kg (rat) (OECD 423)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
Inhalative	LC50/4 h	>5.7 mg/l (rat) (OECD 403)

- **Skin corrosion/irritation** Frequent persistent contact with the skin may cause skin irritation.
- **Serious eye damage/irritation** Product powder can cause temporary mechanical eye irritation.
- **during inhalation:**
By excess of "General Threshold Limit Value for Dust" is - comparable to inert dust - a mechanical overload of respiratory tracts possible.
- **during swallowing:** Irritant effect possible
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Other information (about experimental toxicology):**
Experimental analysis are not available.
The product was not tested. The statements on toxicology have been derived from the properties of the individual components.
- **Subacute to chronic toxicity:**

· Repeated dose toxicity		
1308-38-9 dichromium trioxide		
Inhalative	NOAEC	15 mg/m ³ /90d (rat) (Dust / Fog)
· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Not applicable		
· 11.2 Information on other hazards		
· Endocrine disrupting properties		
None of the ingredients is listed.		

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

Harmful to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

7727-43-7 barium sulphate, natural

NOEC	>1.15 mg/l /72h (algae) (OECD 201) 622 mg/l /3h (activated sludge) (OECD 209) >1.26 mg/l /33d (fish) (OECD 210) 2.9 mg/l /21d (daphnia) (OECD 211)
NOEC	258 mg/kg (Soil macroorganisms) (21d) 211 mg/kg (terrestrial arthropods) (90d)
EC 50/48h	14.5 mg/l (daphnia) (OECD 202)
ErC50/72h	>1.15 mg/l (algae) (OECD 201)
LC 50/96 h	>3.5 mg/l (fish) (OECD 203)

1309-37-1 diiron trioxide

EC 50/48h	>100 mg/l (daphnia) (OECD 202)
LC0 /96h	>50,000 mg/l (fish)
EC 10	>10,000 mg/l /3h (activated sludge)

1308-38-9 dichromium trioxide

NOEC	≥1,000 mg/l /30d (Danio rerio) (OECD 210) ≥0.02 mg/l /21d (daphnia) (OECD 211)
EC 50/48h (static)	14.1 mg/l (daphnia) (OECD 202)
EC 50/3h	>10,000 mg/l (activated sludge) (ISO 8192)
ErC50/72h	>0.849 mg/l (Algae) (OECD 201)
LC 50/96 h (static)	>10,000 mg/l (Danio rerio) (ISO 7346/1)
EC 10	0.0117 mg/l /72h (algae) (OECD 201)

1314-98-3 zinc sulphide

EC 50/48h (static)	100 mg/l (daphnia) (OECD 202)
EC 50/96h (static)	100 mg/l (fish) (OECD 203)
EC 50/72 h (static)	100 mg/l (algae) (OECD 202)

1314-13-2 zinc oxide

NOEC	0.011 mg/l (algae) 0.1 mg/l (Microorganism) 0.154 mg/l (daphnia)
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· **12.2 Persistence and degradability** No further relevant information available.· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** No further relevant information available.

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· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable

· **vPvB:** Not applicable

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Additional ecological information:**

· **AOX-indication:**

Due to the substance of content which do not include organic jointed halogens, the product can not take influence on the AOX-load of the waste water.

· **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:**

The product contains BaSO₄, ZnS, ZnO.

· **General notes:**

The statements on ecotoxicology have been derived from the properties of the individual components.

The product does only consist of inorganic substances; the definition of ecological data like biological degradability, COD and BOD is not expedient.

The product may not be released into the environment without control.

At present there are no ecotoxicological assessments.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

· **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
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· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary with cleansing agents.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA** Void

· **14.2 UN proper shipping name**

· **ADR, IMDG, IATA** Void

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· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable
· Transport/Additional information:	No dangerous good in sense of these transport regulations.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
For information on labelling please refer to section 2 of this document.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

None of the ingredients is listed.

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Not relevant.

· **ANNEX I EXPORT SUBSTANCES DECLARABLE FOR EXPLOSIVES in quantities > 1%.**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

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· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations:**

· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **Other regulations, limitations and prohibitive regulations**

· **Please note:**

TRGS 200 (Germany)

TRGS 500 (Germany)

TRGS 510 (Germany)

TRGS 900 (Germany)

· **Substances of very high concern (SVHC) according to REACH, Article 57** Not applicable

· **Product-Code/Giscode:** ---

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **Department issuing SDS:** KEIMFARBEN Germany, Product safety department

· **Version number of previous version:** 13.0

· **Abbreviations and acronyms:**

BOELV: Binding Occupational Exposure Limit Values

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

AGW: Arbeitsplatzgrenzwert (Germany)

EC10: Effective concentration at 10% mortality rate.

EC50: Half maximal effective concentration.

LC10: Lethal concentration at 10% mortality rate.

NOEC: No observed effect concentration.

REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

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Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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· * **Data compared to the previous version altered.**

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