

1 Identification

- **Product identifier**
- **Trade name: SYLOBEAD® MS 562 CS**
- **Application of the substance / the preparation:**
Intermediate product of varied applicability in industry and trade.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
GRACE
W. R. Grace & Co.-Conn
7500 Grace Drive
Columbia MD 21044
U. S. A.
- **Information department:**
Health and Safety (9 AM to 5 PM-EST) 1-410-531-4000
MSDS.Davison@grace.com
- **Emergency telephone number:**
Chemtrec North America: +1-800-424-9300
Chemtrec International: +1-703-527-3887
Other Emergencies (24hr): +1-410-531-4000

2 Hazard(s) identification

- **Classification of the substance or mixture**



Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



- **Signal word** Warning
- **Hazard-determining components of labeling:**
tetrasodium pyrophosphate
- **Hazard statements**
H319 Causes serious eye irritation.
- **Precautionary statements**
P264 Wash thoroughly after handling.
P280 Wear eye protection / face protection.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P401 Store in accordance with local/regional/national/international regulations.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Hazard not otherwise classified**
The product is very adsorbent and may have a drying effect on skin and eyes.
When exceeding the OEL (Occupational Exposure Limit) a mechanical overburdening of the respiratory system is possible.

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In contact with water heat development and therefore burning of the skin and mucous membrane is possible.

Contains ~1% naturally occurring quartz that is bound in the product matrix reducing free respirable crystalline silica to <0.1%.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Crystalline aluminosilicate with binders.

- **CAS No. and description:**

1318-02-1	zeolites	95-97.5%
	Silica, crystalline (non respirable form) Alternative CAS number: 14808-60-7	≤ 1.0%

- **List of Dangerous Components**

7722-88-5	tetrasodium pyrophosphate  Eye Dam. 1, H318;  Acute Tox. 4, H302	2.5-5%
	Silica, crystalline (airborne particles of respirable size) Alternative CAS number: 14808-60-7  Carc. 1A, H350	< 0.1%

- **Impurities and stabilizing additives:**

Silica, crystalline (airborne particles of respirable size) Alternative CAS number: 14808-60-7	 Carc. 1A, H350
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4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Generally the product does not irritate the skin.
Immediately flush skin with water for at least 15 minutes.
- **After eye contact:**
Flush opened eye with large quantities of running water for at least 30 minutes. If symptoms occur, consult a doctor.
- **After swallowing:** Seek medical attention. Do not induce vomiting.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Hazardous combustion products** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**
Wear personal protective equipment.
Wear respiratory protective device.

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Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Do not allow to enter sewers, surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Vacuuming or wet sweeping may be used to avoid dust dispersal.

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.

Protective Action Criteria for Chemicals**PAC-1:**

7722-88-5	tetrasodium pyrophosphate	15 mg/m ³
14808-60-7	quartz (SiO ₂)	0.075 mg/m ³

PAC-2:

7722-88-5	tetrasodium pyrophosphate	130 mg/m ³
14808-60-7	quartz (SiO ₂)	33 mg/m ³

PAC-3:

7722-88-5	tetrasodium pyrophosphate	790 mg/m ³
14808-60-7	quartz (SiO ₂)	200 mg/m ³

7 Handling and storage**Handling:****Precautions for safe handling**

Prevent formation of dust.

Keep receptacles tightly sealed.

Provide suction extractors if dust is formed.

Any deposit of dust which cannot be avoided must be regularly removed.

Take precautionary measures against static discharges.

Information about protection against explosions and fires:

Protect against electrostatic charges.

When transferring this material into flammable solvents, use proper grounding to avoid static electric sparks.

Conditions for safe storage, including any incompatibilities**Storage:**

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Keep receptacle tightly sealed.

Store in dry conditions.

This product is hygroscopic.

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8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

1318-02-1 zeolites

PEL	Long-term value: *15 **5 mg/m ³ OSHA, *Total Dust, **Respirable Dust
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7722-88-5 tetrasodium pyrophosphate

REL	Long-term value: 5 mg/m ³
TLV	TLV withdrawn

14808-60-7 quartz (SiO₂)

IDLH	Short-term value: 50 mg/m ³
PEL	Long-term value: 0.05* mg/m ³ *resp. dust; 30mg/m ³ /%SiO ₂ +2
REL	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m ³ *as respirable fraction

- **Additional Occupational Exposure Limit Values for possible hazards during processing:**

Dust inhalable

PEL	Long-term value: 15 mg/m ³ TWA
REL	Long-term value: 15 mg/m ³ TWA

Dust respirable

PEL	Long-term value: 5 mg/m ³ TWA
REL	Long-term value: 5 mg/m ³ TWA

- **Additional information:** Valid lists at time of creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

- **Protection of hands:**



Protective gloves

Wear gloves for the protection against mechanical hazards.

Use gloves of stable material

Check protective gloves prior to each use for their proper condition.

Check the permeability prior to each new use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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· **Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm· **For the permanent contact gloves made of the following materials are suitable:**

Butyl rubber, BR

Nitrile rubber, NBR

· **Not suitable are gloves made of the following materials:**

Strong fabric gloves

Leather gloves

· **Eye protection:**

Safety glasses

· **Body protection:** Protective work clothing**9 Physical and chemical properties**· **Information on basic physical and chemical properties**· **General Information**· **Appearance:****Form:**

Beads

Color:

Beige

· **Odor:**

Odorless

· **Odor threshold:**

Not applicable.

· **pH-value at 20 °C (68 °F):**

7 - 11

· **Change in condition****Melting point/Melting range:**> 400 °C (> 752 °F) (OECD 102)
(zeolite)**Boiling point/Boiling range:**

Not determined.

· **Flash point:**

Not determined.

· **Flammability (solid, gaseous):**

Product is not flammable.

· **Ignition temperature:**

Not applicable.

· **Decomposition temperature:**

Not applicable.

· **Auto ignition temperature:**

Product is not self-igniting.

· **Danger of explosion:**

Product does not present an explosion hazard.

· **Explosion limits:****Lower:**

Not determined.

Upper:

Not determined.

· **Vapor pressure:**

Not applicable.

· **Density:**

Not determined.

· **Bulk density:**

Not determined.

· **Vapor density**

Not applicable.

· **Evaporation rate**

Not applicable.

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- **Solubility in / Miscibility with**
Water: Insoluble.
- **Coefficient of water/oil distribution:** Not available.
- **Viscosity:**
Dynamic: Not applicable.
Kinematic: Not applicable.
- **Other information**
Particle characteristics Not determined.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

1318-02-1 zeolites

Oral	LD50	>5110 mg/kg (rat) (OECD 401)
Dermal	LD50	>5000 mg/kg (rabbit) (OECD 402)
Inhalative	LC0	>3350 mg/m ³ /4h (rat) IUCLID Dataset 18-Feb-2000

7722-88-5 tetrasodium pyrophosphate

Oral	LD50	>300-2000 mg/kg (rat) (OECD 420) ECHA 2013
Dermal	LD50	>2000 mg/kg (rabbit) (U.S. Fed. Reg. 43:163, 37336-37402 (EPA)) ECHA 2011
Inhalative	LC50 (4 h)	>0.58 mg/l (rat) (OECD 403) ECHA 2015

- **Primary irritant effect:**

- **on the skin:**

1318-02-1 zeolites

Irritation of skin	IS	0 (rabbit) (OECD 404)
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7722-88-5 tetrasodium pyrophosphate

Irritation of skin	IS	0 (rabbit) (OECD 404) not irritating ECHA 2013
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- **on the eye:**

Irritation of eyes	IS	≤0.39 (Bovine Corneal Opacity and Permeability) (OECD 437) GRACE 2015 32 (in-vitro) (EpiOcular Eye Irritation Test) GRACE 2015
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1318-02-1 zeolites

Irritation of eyes	IS	0.7-1.3 (rabbit) (OECD 405) Corneal opacity
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· **Respiratory sensitization** No further relevant information available.· **Skin sensitization** No further relevant information available.· **Additional toxicological information:**· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

1318-02-1	zeolites	3
	Silica, crystalline (airborne particles of respirable size)	1

· **NTP (National Toxicology Program)**

14808-60-7	quartz (SiO ₂)	K
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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Repeated dose toxicity****1318-02-1 zeolites**

Oral	NOAEL (90 d)	250-300 mg/kg bw/day (rat) subchronic oral repeated dose
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· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**· **Carcinogenicity****1318-02-1 zeolites**

Oral	NOAEL	≥1000 ppm (rat)
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· **Mutagenicity****1318-02-1 zeolites**

Oral	Micronucleus-Test	5000 mg/kg bw (mouse) (OECD 474) Genotoxicity: negative (male/female)
	AMES Test	>0.1 mg/plate (Salmonella typhimurium) (OECD 471) negative with and without metabolic activation
	HPRT Test	>0.08 mg/ml (L5178Y) (OECD 476) no genotoxicity; cytotoxicity: >0,02 mg/ml without metabolic activation; >0,08 mg/ml with metabolic activation

· **Reproductive toxicity****1318-02-1 zeolites**

Oral	NOAEL (maternal toxicity)	≥1600 mg/kg bw/day (rat) (OECD 414) ≥1600 mg/kg bw/day (rabbit) (OECD 414)
	NOAEL (teratogenicity)	≥1600 mg/kg bw/day (rat) (OECD 414) ≥1600 mg/kg bw/day (rabbit) (OECD 414)

· **Specific target organ toxicity (single exposure)** No further relevant information available.· **Specific target organ toxicity (repeated exposure)** No further relevant information available.

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12 Ecological information· **Toxicity**· **Aquatic toxicity:**· **Fish toxicity****1318-02-1 zeolites**

LC50 (96 h) >680 mg/l (Pimephales promelas) (EPA 660/3-75/009)

7722-88-5 tetrasodium pyrophosphateLC50 (96 h) >100 mg/l (Oncorhynchus mykiss) (OECD 203)
comp. substance
ECHA 2015· **Water flea toxicity****1318-02-1 zeolites**

EC50 (24 h) 2808 mg/l (Daphnia magna) (OECD 202)

7722-88-5 tetrasodium pyrophosphateEC50 (48 h) >100 mg/l (Daphnia magna) (OECD 202)
comp. substance
ECHA 2015· **Algae toxicity****1318-02-1 zeolites**

EC50 (96h) >328 mg/l (Scenedesmus subspicatus) (OECD 201)

7722-88-5 tetrasodium pyrophosphateEC50 (72 h) >100 mg/l (Desmodesmus subspicatus) (OECD 201)
comp. substance
ECHA 2015· **Bacterial toxicity****1318-02-1 zeolites**

EC50 (16h) 950 mg/l (Pseudomonas putida) (DIN 38412/8)

7722-88-5 tetrasodium pyrophosphateEC50 (3 h) >1000 mg/l (sludge) (OECD 209)
comp. substance
ECHA 2015· **Persistence and degradability** No further relevant information available.· **Behavior in environmental systems:** Accumulation in organisms is not to be expected.· **Bioaccumulative potential** Does not accumulate in organisms· **Mobility in soil** No further relevant information available.· **Additional ecological information:**· **General notes:** Do not allow product to reach ground water, water course or sewage system.· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Other adverse effects** No further relevant information available.**13 Disposal considerations**· **Precautions for disposal:**· **Recommendation:**

Disposal must be made according to official regulations.

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and

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approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State/provincial and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state/provincial and local requirements.

14 Transport information

· UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Not applicable.
· UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	Not applicable.
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Not applicable.
· Packing group	
· DOT, ADR, IMDG, IATA	Not applicable.
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Segregation groups	-
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	GRACE recommendation for air transport: Cargo aircraft only. Not dangerous according to the above specifications.

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- SARA

· **SARA 302/304**

None of the ingredients is listed.

· **SARA 313**

None of the ingredients is listed.

- **SARA 311/312** Serious eye damage or eye irritation.

· **TSCA (Toxic Substances Control Act):**

EPA recognizes zeolites (CAS: 1318-02-1) as a family of aluminosilicates manufactured from a number of commercial processes and techniques that utilize different proportions of alumina, silica and a variety of sources of different inorganic and organic cations. Zeolites are considered for TSCA purposes to be mixtures of the substances used to manufacture them. The individual reactant materials used to produce zeolites are required to be listed separately on the Inventory.

7722-88-5	tetrasodium pyrophosphate	ACTIVE
14808-60-7	quartz (SiO ₂)	ACTIVE

· **Hazardous Air Pollutants**

None of the ingredients is listed.

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· Proposition 65**· Chemicals known to cause cancer:**

Silica, crystalline (airborne particles of respirable size)

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories**· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· TLV (Threshold Limit Value)14808-60-7 quartz (SiO₂)**· NIOSH-Ca (National Institute for Occupational Safety and Health)**14808-60-7 quartz (SiO₂)**· Canadian DSL**

In addition to the specific listings appearing on the DSL synthetic zeolites (CAS: 1318-02-1) may also be considered as mixtures (specifically section 3 of Canadian Environmental Protection Act, 1999, and 3.2.1 of the Guidelines for the Notification and Testing of New Substances: "Mixtures that are prepared formulations or reaction mixtures that are fully characterized in terms of constituent substances are not considered substances for the purpose of the Regulations and, consequently, do not require notification. []").

7722-88-5 tetrasodium pyrophosphate

14808-60-7 quartz (SiO₂)**· Canadian NDSL**

None of the ingredients is listed.

· European EINECS

All ingredients are listed or exempted from listing.

· Philippines Inventory of Chemicals and Chemical Substances PICCS

All ingredients are listed or exempted from listing.

· Inventory of the Existing Chemical Substances manufactured or imported in China IECSC

1318-02-1 zeolites

7722-88-5 tetrasodium pyrophosphate

14808-60-7 quartz (SiO₂)**· Australian Inventory of Chemical Substances AICS**

All ingredients are listed or exempted from listing.

· Existing and New Chemical Substance List ENCS

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7722-88-5 tetrasodium pyrophosphate 1-497

14808-60-7 quartz (SiO₂) 1-548**· Korean Existing Chemical Inventory KECI**

1318-02-1 zeolites KE-35511

7722-88-5 tetrasodium pyrophosphate KE-33702

14808-60-7 quartz (SiO₂) KE-29983**· TCSCA (Taiwan)**

1318-02-1 zeolites EPEP4A01713969

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· Russian Register of Potentially Hazardous Chemical and Biological Substances (RPOHV)		
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14808-60-7	quartz (SiO ₂)	№ AT-001043 от 02.10.1996 г.

· New Zealand Inventory of Chemicals (NZIoC)

All ingredients are listed or exempted from listing.
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· Existing Chemical Directory of Thailand (DIW)
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All ingredients are listed or exempted from listing.
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· TCSI - Taiwan Chemical Substance Inventory

All ingredients are listed or exempted from listing.
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· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).
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· Hazard pictograms



GHS07

· Signal word Warning

· Hazard-determining components of labeling:

tetrasodium pyrophosphate

· Hazard statements

H319 Causes serious eye irritation.

· Precautionary statements

P264	Wash thoroughly after handling.
P280	Wear eye protection / face protection.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P401	Store in accordance with local/regional/national/international regulations.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 1
Fire = 0
Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH	*1	Health = *1
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

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.
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· Relevant phrases

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H350 May cause cancer.

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- **Department issuing SDS:** GRACE Safety & Health Department
- **Harmonized Tariff Schedule** 3824 9915
- **Contact:**
SALES OFFICES

USA:
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Columbia, MD 21044
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- **Other information:**
- **Date of preparation / last revision** 06/15/2021 / 15.3
- **The first date of preparation** 02/26/2015
- **Number of revision times and the latest revision date** 15.4 / 06/15/2021

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
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
DOT: US Department of Transportation
IATA: International Air Transport Association
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 4: Acute toxicity – Category 4
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Carc. 1A: Carcinogenicity – Category 1A

- **Others** No further relevant information available.
- *** Data compared to the previous version altered.**

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