

Printing date 10/12/2020 Version: 11.0 Reviewed on 10/12/2020

1 Identification

· Product identifier

· Trade name: LUDOX® CL-P

· 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



Skin Sens. 1 H317 May cause an allergic skin reaction.

- Label elements
- · GHS label elements

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

Hazard pictograms



GHS07

· Signal word Warning

Hazard-determining components of labeling:

Mixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one with magnesium chloride and magnesium nitrate

· Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P302+P352 If on skin: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: 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.

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Safety Data Sheet acc. to OSHA HCS

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· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2Fire = 0Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 2 Fire = 0 Reactivity = 0

· Hazard not otherwise classified

When exceeding the OEL (Occupational Exposure Limit) a mechanical overburdening of the respiratory system is possible.

The product is very adsorbent and may have a drying effect on skin and eyes.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Aqueous colloidal suspension of surface treated silica.

· CAS No. an	d description:	
7631-86-9	amorphous silicon dioxide, chemically prepared	35-45%
7732-18-5	water, distilled, or of similar purity	50-60%
21645-51-2	aluminum hydroxide	2-5%
List of Dan	gerous Components	
55965-84-9	Mixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one with magnesium chloride and magnesium nitrate ♦ Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; ♦ Skin Corr. 1C, H314; Eve Dam. 1, H318; ♠ Skin Sens. 1A, H317	≤0.01%

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove contaminated clothing if necessary to prevent direct skin contact.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately flush skin with water for at least 15 minutes.

Remove contaminated clothing immediately.

If skin irritation occur, consult a doctor.

· 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 Allergic reactions

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· Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

The product is not flammable.

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.
- Additional information

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

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures
- Wear protective clothing.
- **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

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

Dilute with plenty of water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· 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:				
7631-86-9	amorphous silicon dioxide, chemically prepared	18 mg/m ³		
21645-51-2	aluminum hydroxide	8.7 mg/m ³		
· PAC-2:	· PAC-2:			
7631-86-9	amorphous silicon dioxide, chemically prepared	740 mg/m ³		
21645-51-2	aluminum hydroxide	73 mg/m ³		
· PAC-3:				
7631-86-9	amorphous silicon dioxide, chemically prepared	4,500 mg/m ³		
21645-51-2	aluminum hydroxide	440 mg/m ³		

7 Handling and storage

- · Handling:
- · Precautions for safe handling Avoid formation of respirable particles.
- · Information about protection against explosions and fires: The product is not flammable.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Colloidal silica should be stored above 2 °C. Freezing temperatures can cause irreversible precipitation of the silica, therefore the product should be located in heated buildings. Avoid routine storage temperatures above 43 °C.

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- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: Protect from frost.
- · Minimum storage temperature: > 2 °C

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 workp

7732-18-5 water, distilled, or of similar purity

PEL Long-term value: -

OSHA TWA: NONE ESTABLISHED

TLV | Long-term value: -

ACGIH TWA: NONE ESTABLISHED

7631-86-9 amorphous silicon dioxide, chemically prepared

IDLH Short-term value: 3000 mg/m³

IDLH: Immediately Dangerous to Life or Health

PEL Long-term value: 80/%SiO2 mg/m³

OSHA TWA for amorphous silica

REL |Long-term value: 6 mg/m³

NIOSH TWA

TLV |Long-term value: 10* 5** mg/m³

OSHA TWA *Total dust **Respirable fraction

55965-84-9 Mixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one with magnesium chloride and magnesium nitrate

TWA Short-term value: 0.23 mg/m³

Long-term value: 0.076 mg/m³ Manufacturer suggested

Additional Occupational Exposure Limit Values for possible hazards during processing:

Aluminium salts, soluble

REL Long-term value: 2 mg/m³

TWĂ

- Additional information: Valid lists at time of creation were used as basis.
- · Exposure controls
- · Personal protective equipment:

· General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not breathe dust or spray mist.

The usual precautionary measures for handling chemicals should be followed.

Do not eat, drink, smoke or sniff while working.

Protection of hands:



Protective gloves

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.

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Use gloves of stable material

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

Material of gloves

Nitrile rubber, NBR

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.35 mm

· For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Butyl rubber, BR Nitrile rubber, NBR

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

· Not suitable are gloves made of the following materials:

Leather gloves Strong fabric gloves

· Eye protection:



· Body protection: Protective work clothing

Information on basic physical an	d chemical properties
General Information	
Appearance:	F1 11
Form:	Fluid
Color:	Cloudy
Odor:	Odorless
Odor threshold:	Not applicable.
pH-value at 20 °C (68 °F):	4-5
Change in condition	
Melting point/Melting range:	0 °C (32 °F)
31 3 3	(water)
Boiling point/Boiling range:	100 °C (212 °F)
	(water)
Conditions of flammability	
Flash point:	Not determined.
Flammability (solid, gaseous):	Product is not flammable.
Ignition temperature:	Not applicable.
Decomposition temperature:	Not applicable.
Auto igniting:	Product is not self-igniting.
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.
Lower:	- Vol %

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Upper:	- Vol %	
· Vapor pressure at 25 °C (77 °F):	3.2 kPa (water)	
Density at 20 °C (68 °F): Vapor density	1.2-1.3 g/cm³ (10.014-10.8485 lbs/gal) Not available	
· Evaporation rate	Not available	
Solubility in / Miscibility with Water: Coefficient of water/oil distributio	Fully miscible. n: Not available.	
· Viscosity: Dynamic at 25 °C (77 °F):	typical 10 mPas	
· Other information	No further relevant information available.	

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

In case of thermal decomposition caused by smouldering and incomplete combustion toxic fumes may be developed.

Incompatible materials:

Protect from contamination.

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:		
7631-86-9 amorphous silicon dioxide, chemically prepared		
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC0	>140->2,000 mg/m³/4h (rat) (OCED 403) Maximum attainable concentration, mortality does not appear.
21645-51-	2 aluminum	hydroxide
Oral	LD50	>15,900 mg/kg (rat) (OECD 401) comparable substance ECHA 2014
Inhalative	LC50 (4 h)	>2.3 mg/l (rat) (40 CFR 158 81-3) ECHA 2011
55965-84-9 Mixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one with magnesium chloride and magnesium nitrate		
Oral	LD50	64 mg/kg (rat) ECHA 2018

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(Contd. of page 6) Dermal LD50 (24 h) 87 mg/kg (rabbit) ECHA 2018 0.33 mg/l (rat) Inhalative LC50 (4 h) ECHA 2018 · Primary irritant effect: on the skin: 7631-86-9 amorphous silicon dioxide, chemically prepared Irritation of skin IS 0 (rabbit) (OECD 404) not irritating 21645-51-2 aluminum hydroxide Irritation of skin IS 0 (rabbit) (OECD 404) ECHA 2011 on the eye: 7631-86-9 amorphous silicon dioxide, chemically prepared Irritation of eyes IS 0 (rabbit) (OECD 405) not irritating 21645-51-2 aluminum hydroxide Irritation of eyes IS 0 (rabbit) (OECD 405) ECHA 2011 · Respiratory sensitization No further relevant information available. Skin sensitization 21645-51-2 aluminum hydroxide Sensitization EC3 0 % (guinea pig) (OECD 406) GRACE · Additional toxicological information: · Carcinogenic categories IARC (International Agency for Research on Cancer) 7631-86-9 amorphous silicon dioxide, chemically prepared 3 NTP (National Toxicology Program) None of the ingredients is listed. · OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. Repeated dose toxicity 7631-86-9 amorphous silicon dioxide, chemically prepared Oral NOAEL (90 d) 9,000 mg/kg bw/day (rat) (OECD 408) Inhalative NOAEL (90d) 31 mg/m³ (rat) (acc. to OECD 413) CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) · Carcinogenicity No further relevant information available. Mutagenicity 7631-86-9 amorphous silicon dioxide, chemically prepared AMES Test >5 mg/plate (in-vitro) (OECD 471) negative with and without metabolic activation Reproductive toxicity 7631-86-9 amorphous silicon dioxide, chemically prepared Oral NOAEL (maternal toxicity) 1,350 mg/kg bw/day (rat) (OECD 414) NOAEL (teratogenicity) 1,350 mg/kg bw/day (rat) (OECD 414) (Contd. on page 8)



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

12 Ecological information

- · Toxicity
- · Aquatic toxicity:

· Aquatic toxic	•
· Fish toxicity	
	norphous silicon dioxide, chemically prepared
, , ,	tatic) 10,000 mg/l (zebra fish) (OECD 203)
55965-84-9 N	lixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-methylisothiazol-3(2H)- ne with magnesium chloride and magnesium nitrate
LC50 (96 h)	0.28 mg/l (Lepomis macrochirus)
	1.6 mg/l (Oncorhynchus mykiss)
	IUCLID Dataset (18/FEB/2000) OECD TG 203
· Water flea to	xicity
7631-86-9 an	norphous silicon dioxide, chemically prepared
EC50 (24 h)	>1,000 mg/l (Daphnia magna) (OECD 202)
	hixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-methylisothiazol-3(2H) one with magnesium chloride and magnesium nitrate
EC50 (48 h)	4.71 mg/l (Daphnia magna) IUCLID Dataset (18/FEB/2000) OECD TG 202
NOEC (21 d)	172 mg/l (Daphnia magna) IUCLID Dataset (18/FEB/2000) OECD TG 202
· Algae toxicit	у
7631-86-9 an	norphous silicon dioxide, chemically prepared
	>10,000 mg/l (Scenedesmus subspicatus) (OECD 201) comparable substance
	lixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-methylisothiazol-3(2H) ne with magnesium chloride and magnesium nitrate
EC50	18 mg/l (Selenastrum capricornutum)
	3 mg/l (Skeletonema costatum)
Bacterial tox	icity
	luminum hydroxide
	>200 mg/l (sludge) comp. substance
O	lixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-methylisothiazol-3(2H)- ne with magnesium chloride and magnesium nitrate
`	5.7 mg/l (Pseudomonas putida) UCLID Dataset (18/FEB/2000) DIN 38412-8

- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

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Additional ecological information:

· General notes:

Do not allow undiluted product or large quantities of it 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

· Recommendation:

Disposal must be made according to official regulations.

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and 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	None
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	None
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	None
· Packing group · DOT, ADR, IMDG, IATA	None
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport/Additional information	on: Not dangerous according to the above specifications. GRACE recommendation for air transport: Cargo aircraft only

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 Respiratory or Skin Sensitization.
- TSCA (Toxic Substances Control Act):

7732-18-5 water, distilled, or of similar purity ACTIVE

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7001.00.0	omovohous silioon diavide, shareteelly property	(Contd. of pag
	amorphous silicon dioxide, chemically prepared aluminum hydroxide	ACTI\
55965-64-9	Mixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-methylisothia 3(2H)-one with magnesium chloride and magnesium nitrate	3201-
	Air Pollutants	
	ingredients is listed.	
· Proposition		
	known to cause cancer:	
None of the	ingredients is listed.	
	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.	
_	ic categories	
•	onmental Protection Agency)	
	ingredients is listed.	
•	hold Limit Value established by ACGIH)	
None of the	ingredients is listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the	ingredients is listed.	
· Canadian D	SL	
7732-18-5	water, distilled, or of similar purity	
7631-86-9	amorphous silicon dioxide, chemically prepared	
21645-51-2	aluminum hydroxide	
55965-84-9	Mixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-methylisothia with magnesium chloride and magnesium nitrate	azol-3(2H)-one
· Canadian N	IDSL	
None of the	ingredients is listed.	
· European E	EINECS	
•	ting could not be confirmed for one or more substances.	
	Inventory of Chemicals and Chemical Substances PICCS	
	its are listed or exempted from listing.	
		China IECCO
-	f the Existing Chemical Substances manufactured or imported in water, distilled, or of similar purity	China IECSC
	amorphous silicon dioxide, chemically prepared	
	aluminum hydroxide	
	Mixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-methylisothia	
55965-64-9	with magnesium chloride and magnesium nitrate	4201-3(2H)-0HE
	nventory of Chemical Substances AICS	
	its are listed or exempted from listing.	
All ingredier		
All ingredier Existing an	d New Chemical Substance List ENCS	
All ingredier • Existing an 7732-18-5	d New Chemical Substance List ENCS water, distilled, or of similar purity amorphous silicon dioxide, chemically prepared	1-548



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			(Contd. of page 10)		
21645-51-2	5-51-2 aluminum hydroxide		1-17		
55965-84-9	Mixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and		9-378; 5-5235		
	methylisothiazol-3(2H)-one with magnesium chloride and magnesium nitrate				
· Korean Exi	sting Chemical Inventory KECI				
7732-18-5	water, distilled, or of similar purity		KE-35400		
7631-86-9	7631-86-9 amorphous silicon dioxide, chemically prepared				
21645-51-2	21645-51-2 aluminum hydroxide				
55965-84-9	65-84-9 Mixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one with magnesium chloride and magnesium nitrate				
· TCSCA (Tai	TCSCA (Taiwan)				
7631-86-9	7631-86-9 amorphous silicon dioxide, chemically prepared EPEP4A01648271				
· Russian Re	Russian Register of Potentially Hazardous Chemical and Biological Substances (RPOHV)				
7732-18-5	water, distilled, or of similar purity	№ АТ-007627 от 25.02.2014 г.			
7631-86-9	amorphous silicon dioxide, chemically prepared	№ АТ-000209 от 18.01.1995 г.			
21645-51-2	5-51-2 aluminum hydroxide № AT-000482 oτ 26.05.1995 r		г 26.05.1995 г.		
· New Zealand Inventory of Chemicals (NZIoC)					
All ingredien	All ingredients are listed or exempted from listing.				

GHS label elements

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

Hazard pictograms



GHS07

· Signal word Warning

· Hazard-determining components of labeling:

Mixture of 5-Chloro-2-methyl-isothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one with magnesium chloride and magnesium nitrate

· Hazard statements

H317 May cause an allergic skin reaction.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P272 Contaminated work clothing must not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P302+P352 If on skin: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: 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.

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

H301 Toxic if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

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H318 Causes serious eye damage.

H330 Fatal if inhaled.

- · Department issuing SDS: GRACE Safety & Health Department
- · Harmonized Tariff Schedule 3824 9996
- Contact:

SALES OFFICES

USA: GRACE W. R. Grace & Co.-Conn 7500 Grace DR Columbia, MD 21044 Tel: +1 410-531 4000

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- · Date of preparation / last revision 10/12/2020 / 10.2
- The first date of preparation 09/10/2003
- Number of revision times and the latest revision date 11.0 / 10/12/2020
- · 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)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport 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

ACGIH: American Conference of Governmental Industrial Hygienists 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)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic 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. 3: Acute toxicity – Category 3
Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 10: Skin corrosion/irritation – Category 1C
Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Skin Sens. 1: Skin sensitisation - Category 1

Skin Sens. 1A: Skin sensitisation - Category 1A

· Others No further relevant information available.

·* Data compared to the previous version altered.

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