Lovibond[®] Water Testing

Tintometer® Group



Safety Data Sheet

acc. to OSHA HCS (HazCom 2012)

Printing date 06/01/2023

Reviewed on 06/01/2023

1 Identification

- Product identifier
- · Trade name: Chlorine Free DPD F10 ml, PD 250
- Catalogue number:

00530109, 00530149, 530100, 00570109, 530103, 00570104, 00570108, 530102, 570100, 570104, 530140 (2 x 00530149), 570108

- · Application of the substance / the mixture: Reagent for water analysis
- · Manufacturer/Supplier: Tintometer Inc. 6456 Parkland Drive Sarasota, FL 34243 USA phone: (941) 756-6410 fax: (941) 727-9654 www.lovibond.us Made in Germany
- · Emergency telephone number: + 1 866 928 0789 (English, French, Spanish)

2 Hazard(s) identification

- · Classification of the substance or mixture The product is not classified as hazardous.
- Label elements
- · GHS label elements none
- · Hazard pictograms none
- Signal word none
- · Hazard statements none
- Other hazards No further relevant information available.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of organic and inorganic compounds
- · Composition and Information on Ingredients:
- Percent ranges are used due to the confidential product information.

CAS: 7757-82-6 EINECS: 231-820-9	sodium sulphate	2.5–5%		
CAS: 139-33-3 EINECS: 205-358-3	Disodium dihydrogen ethylenediaminetetraacetate Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	≤2.5%		
CAS: 6283-63-2 EINECS: 228-500-6 RTECS: SS 9625000	N,N-Diethyl-p-phenylenediamine sulfate (1:1) Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	≤2.5%		
Additional information: For the wording of the listed bazard phrases refer to section 16				

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4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:

Rinse opened eye for several minutes (at least 15 min) under running water. If symptoms persist, consult a doctor.

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· After swallowing: Rinse out mouth and then drink 1-2 glasses of water. If symptoms persist consult doctor. Most important symptoms and effects, both acute and delayed irritating effect possible allergic reactions after swallowing of large amounts: thirst general feeling of sickness sickness vomiting abdominal pain diarrhoea after absorption of large amounts: methaemoglobinaemia disorder of electrolyte balance · 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.
- Special hazards arising from the substance or mixture

The product is not combustible.

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Nitrogen oxides (NOx)

- Sulfur oxides (SOx)
- Phosphorus oxides (PxOx)

Potassium oxide

Carbon monoxide (CO) and carbon dioxide (CO₂)

Advice for firefighters

• Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

· 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.

Ambient fire may liberate hazardous vapours.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures
- · Advice for non-emergency personnel: No special measures required.
- Advice for emergency responders: Protective equipment: see section 8
- · Environmental precautions: Do not allow product to reach sewage system or any water course.
- Methods and material for containment and cleaning up:
- Ensure adequate ventilation.
- Pick up mechanically.
- Dispose contaminated material as waste according to section 13.
- · Reference to other sections
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- Precautions for safe handling
- · Advice on safe handling: No special precautions are necessary if used correctly.
- · Hygiene measures:

The usual precautionary measures for handling chemicals should be followed.

Wash hands before breaks and at the end of work.

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Do not eat, drink or smoke when using this product.

- · Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Store away from oxidizing agents.
- · Further information about storage conditions:
- Protect from heat and direct sunlight.
- Protect from exposure to the light.
- Store in dry conditions.
- Protect from humidity and water.
- · Recommended storage temperature: 20°C +/- 5°C (approx. 68°F)
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

CAS: 7757-82-6 sodium sulphate

TLV (USA) Short-term value: NIC-0.2 mg/m³ thoracic fraction of aerosol

· Additional information: The lists that were valid during the creation were used as basis.

· Engineering measures:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See item 7.

· Personal protective equipment:

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.

- · Breathing equipment: Use respiratory protective device against the effects of fume/dust/aerosol.
- Recommended filter device for short term use: Filter P2
- · Protection of hands:

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

- Material of gloves
- Nitrile rubber, NBR

Recommended thickness of the material: \geq 0.11 mm

- Penetration time of glove material
- Value for the permeation: Level \leq 1 (10 min)
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection:
- Safety glasses

use against the effects of fumes / dust

- Use protective goggles that have been tested and approved in accordance with government standards (like NIOSH).
- · Body protection: Protective work clothing
- · Limitation and supervision of exposure into the environment:

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

* 9 Physical and chemical properties · Information on basic physical and chemical properties · Appearance: · Form / Physical state: Powder · Color: White · Odor: Odorless

· Odor:	Odoriess
· Odor threshold:	Not applicable.
· pH-value at 20°C (68°F):	6.3
Melting point/freezing point:	Not determined.
 Initial boiling point and boiling range: 	Not determined.

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		(Contd. of page
· Flash point:	Not applicable.	
Flammability (solid, gas):	The product is not combustible.	
Auto igniting:	Not applicable.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not self-igniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Flammability or explosive limits:		
Lower:	Not applicable.	
Upper:	Not applicable.	
Oxidizing properties:	none	
· Vapor Pressure:	Not applicable.	
Density:	Not determined.	
· Relative density:	Not determined.	
· Vapor density:	Not applicable.	
Evaporation rate:	Not applicable.	
· Solubility(ies)		
Water:	Soluble.	
Partition coefficient (n-octanol/water):	Not applicable (mixture).	
· Viscosity:	····	
Kinematic:	Not applicable (solid).	
Other information		
Solids content:	100 %	
· Information with regard to physical hazard classe	25	
Corrosive to metals	none	

10 Stability and reactivity

· Reactivity see section "Possibility of hazardous reactions"

- · Chemical stability Stable at ambient temperature (room temperature).
- · Possibility of hazardous reactions

Reacts with acids, alkalis and oxidizing agents.

- --> Forms heat.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: see section 5

11 Toxicological information

· Information on toxicological effects

· Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:					
CAS: 77	CAS: 7757-82-6 sodium sulphate				
Oral	LD50.	>2000 mg/kg (rat) (OECD 423) (Registrant, ECHA, limit test)			
Dermal	LD50.	>2000 mg/kg (rat)			
CAS: 13	CAS: 139-33-3 Disodium dihydrogen ethylenediaminetetraacetate				
Oral	LD50	2000 mg/kg (rat) (GESTIS)			
CAS: 62	CAS: 6283-63-2 N,N-Diethyl-p-phenylenediamine sulfate				
	(1:1)				
Oral	LD50	497 mg/kg (rat) (MERCK)			
Dermal	LD50	1100 mg/kg (ATE)			

· Primary irritant effect:

 \cdot on the skin: Based on available data, the classification criteria are not met.

· on the eye: Based on available data, the classification criteria are not met.

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Informatio	on on components:
	-63-2: DPD may cause allergic skin reaction
	7-82-6 sodium sulphate
	f skin OECD 404 (rabbit: no irritation)
	f eyes OECD 405 (rabbit: slight irritation)
	33-3 Disodium dihydrogen ethylenediaminetetraacetate
	f skin OECD 404 (rabbit: no irritation)
Irritation o	f eyes OECD 405 (rabbit: no irritation)
Informatio	ion: Based on available data, the classification criteria are not met. on on components: -63-2: Sensitization possible in predisposed persons.
CAS: 775	7-82-6 sodium sulphate
Sensitizati	on OECD 406 (guinea pig: negative)
	33-3 Disodium dihydrogen ethylenediaminetetraacetate
Sensitizati	on OECD 406 (guinea pig: negative) (EPA OPP 81-6: Guinea pig maximisation test)
Carcinog	enic categories
-	ernational Agency for Research on Cancer)
	05-9 sodium cyclamate
	onal Toxicology Program)
•	e ingredients is listed.
	(Occupational Safety & Health Administration)
	e ingredients is listed.
	prmation: see section 8 / 15
CMR effect Germ cell Carcinogo	ic Products: None cts (carcinogenity, mutagenicity and toxicity for reproduction): The following statements refer to the mixture: mutagenicity Based on available data, the classification criteria are not met. enicity Based on available data, the classification criteria are not met. tive toxicity Based on available data, the classification criteria are not met.
CMR effec Germ cell Carcinogo Reproduc STOT (sp	cts (carcinogenity, mutagenicity and toxicity for reproduction): The following statements refer to the mixture: mutagenicity Based on available data, the classification criteria are not met. enicity Based on available data, the classification criteria are not met. tive toxicity Based on available data, the classification criteria are not met. ecific target organ toxicity) -single exposure Based on available data, the classification criteria are not met.
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CMR effect Germ cell Carcinogo Reproduct STOT (sp STOT (sp Aspiration Additional When use and the int CAS: 6283	 cts (carcinogenity, mutagenicity and toxicity for reproduction): The following statements refer to the mixture: mutagenicity Based on available data, the classification criteria are not met. enicity Based on available data, the classification criteria are not met. tive toxicity Based on available data, the classification criteria are not met. ecific target organ toxicity) -single exposure Based on available data, the classification criteria are not met. ecific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met. ecific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met. e the toxicological information: d and handled according to specifications, the product does not have any harmful effects according to our experie formation provided to us.
CMR effect Germ cell Carcinogo Reproduct STOT (sp STOT (sp Aspiration Additiona When use and the int CAS: 6283	 cts (carcinogenity, mutagenicity and toxicity for reproduction): The following statements refer to the mixture: mutagenicity Based on available data, the classification criteria are not met. enicity Based on available data, the classification criteria are not met. tive toxicity Based on available data, the classification criteria are not met. ecific target organ toxicity) -single exposure Based on available data, the classification criteria are not met. ecific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met. ecific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met. I toxicological information: d and handled according to specifications, the product does not have any harmful effects according to our experie formation provided to us. 3-63-2 N,N-Diethyl-p-phenylenediamine sulfate (1:1) : GESTIS) ic effects of CAS 93-05-0 4-Amino-N,N-diethylaniline: ritative effects to the mucosae and the skin, sensitising effects;
CMR effect Germ cell Carcinogo Reproduct STOT (sp STOT (sp Aspiration Additional When use and the int CAS: 6283 . (source Main tox Acute: Ir Chronic: Other info	 cts (carcinogenity, mutagenicity and toxicity for reproduction): The following statements refer to the mixture: mutagenicity Based on available data, the classification criteria are not met. emicity Based on available data, the classification criteria are not met. etite toxicity Based on available data, the classification criteria are not met. ecific target organ toxicity) -single exposure Based on available data, the classification criteria are not met. ecific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met. ecific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met. I toxicological information: d and handled according to specifications, the product does not have any harmful effects according to our experie formation provided to us. B-3-3-2 N,N-Diethyl-p-phenylenediamine sulfate (1:1) : GESTIS) : effects of CAS 93-05-0 4-Amino-N,N-diethylaniline: : ritative effects to the mucosae and the skin, sensitising effects; : Skin diseases. Only insufficient information available on the systemic effects.
CMR effect Germ cell Carcinogo Reproduct STOT (sp STOT (sp Aspiration Additional When use and the information CAS: 6283 . (source Main tox Acute: Ir Chronic: Other information	 cts (carcinogenity, mutagenicity and toxicity for reproduction): The following statements refer to the mixture: mutagenicity Based on available data, the classification criteria are not met. encity Based on available data, the classification criteria are not met. etwice toxicity Based on available data, the classification criteria are not met. ecific target organ toxicity) -single exposure Based on available data, the classification criteria are not met. ecific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met. ecific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met. et toxicological information: d and handled according to specifications, the product does not have any harmful effects according to our experies formation provided to us. B-G22 N,N-Diethyl-p-phenylenediamine sulfate (1:1) r GESTIS) ic effects of CAS 93-05-0 4-Amino-N,N-diethylaniline: ritative effects to the mucosae and the skin, sensitising effects; Skin diseases. Only insufficient information available on the systemic effects.
CMR effect Germ cell Carcinogo Reproduct STOT (sp STOT (sp Aspiration Additional When use and the init CAS: 6283 . (source Main tox Acute: Ir Chronic: Other info	cts (carcinogenity, mutagenicity and toxicity for reproduction): The following statements refer to the mixture: mutagenicity Based on available data, the classification criteria are not met. enicity Based on available data, the classification criteria are not met. tive toxicity Based on available data, the classification criteria are not met. ecific target organ toxicity) -single exposure Based on available data, the classification criteria are not met. ecific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met. ecific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met. ecific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met. ecific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met. I toxicological information: d and handled according to specifications, the product does not have any harmful effects according to our experie formation provided to us. B-GASE NN-Diethyl-p-phenylenediamine sulfate (1:1) GESTIS) ic effects of CAS 93-05-0 4-Amino-N,N-diethylaniline: ritative effects to the mucosae and the skin, sensitising effects; Skin diseases. Only insufficient information available on the systemic effects. ormation No further relevant information available.
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CMR effect Germ cell Carcinogo Reproduct STOT (sp STOT (sp Aspiration Additiona When use and the init CAS: 6283 . (source Main tox Acute: Ir Chronic: Other info Ecologi Toxicity Aquatic to	cts (carcinogenity, mutagenicity and toxicity for reproduction): The following statements refer to the mixture: mutagenicity Based on available data, the classification criteria are not met. enicity Based on available data, the classification criteria are not met. ecific target organ toxicity) -single exposure Based on available data, the classification criteria are not met. ecific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met. ecific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met. n hazard Based on available data, the classification criteria are not met. I toxicological information: d and handled according to specifications, the product does not have any harmful effects according to our experie formation provided to us. 3-3-2 N.N-Diethyl-p-phenylenediamine sulfate (1:1) GESTIS) ic effects of CAS 93-05-0 4-Amino-N,N-diethylaniline: ritative effects to the mucosae and the skin, sensitising effects; Skin diseases. Only insufficient information available. cal information cal information xixity:
CMR effect Germ cell Carcinogo Reproduct STOT (sp STOT (sp Aspiration Additional When use and the int CAS: 6283 . (source Main tox Acute: Ir Chronic: Other info Ecologi Toxicity Aquatic to CAS: 775	ts (carcinogenity, mutagenicity and toxicity for reproduction): The following statements refer to the mixture: mutagenicity Based on available data, the classification criteria are not met. tive toxicity Based on available data, the classification criteria are not met. tive toxicity Based on available data, the classification criteria are not met. tive toxicity Based on available data, the classification criteria are not met. tive toxicity Based on available data, the classification criteria are not met. ecific target organ toxicity) -single exposure Based on available data, the classification criteria are not met. ecific target organ toxicity) -repeated exposure Based on available data, the classification criteria are not met. I toxicological information: d and handled according to specifications, the product does not have any harmful effects according to our experie formation provided to us. B-63-2 N,N-Diethyl-p-phenylenediamine sulfate (1:1) CGESTIS) ic effects of CAS 93-05-0 4-Amino-N,N-diethylaniline: ritative effects to the mucosae and the skin, sensitising effects; Skin diseases. Only insufficient information available. cal information volcity: 7-82-6 sodium sulphate [2564 mg/l/48h (Daphnia magna)

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	-3 Disodium dihydrogen ethylenediaminetetraacetate	
EC50 (static)	>100 mg/l/48h (Daphnia magna) (DIN 38412 Teil 11) (BASF)	
NOEC	≥36.9 mg/l (zebrafish) (35d, OECD 210) (BASF; read across)	
EC50	>100 mg/l/72h (Scenedesmus subspicatus) (88/302/EWG, part C) (BASF; read across)	
LC50 (static)	>100 mg/l/96h (bluegill) (BASF, read across)	
Bacterial tox sulfates toxic		
CAS: 7757-82	2-6 sodium sulphate	
EC10 >1000 (IUCLII	mg/l (Pseudomonas putida) (16h) D)	
Other inform	nation:	
Toxic for fish:		
Sulfates > 7 g		
	and degradability No further relevant information available.	
	ative potential nol/wasser partition coefficient	
	Does not accumulate in organisms.	
	- Not worth-mentioning accumulating in organisms.	
0	-3 Disodium dihydrogen ethylenediaminetetraacetate	
log Pow -4.3 (BAS		
CAS: 6283-63	3-2 N,N-Diethyl-p-phenylenediamine sulfate (1:1)	
og Pow 2.24	(.) (calculated)	
Mobility in so	oil No further relevant information available.	

Depending on the concentration, phosphorus and/or nitrogen compounds may contribute to the eutrophication of water supplies. Avoid transfer into the environment.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

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

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information · UN-Number · DOT, IMDG, IATA none · UN proper shipping name DOT, IMDG, IATA none · Transport hazard class(es) · DOT, IMDG, IATA · Class none · Packing group · DOT, IMDG, IATA none · Environmental hazards: Not applicable. (Contd. on page 7)

US

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	(Contd. of page 6)
 Special precautions for user 	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	
· Transport/Additional information:	Not dangerous according to the above specifications.

15 Regulatory information

\cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara	
· Section 355 (Extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
 • TSCA (Toxic Substances Control Act): CAS No. 6283-63-2 is listed under CAS No. 6065-27-6 	
All components have the value ACTIVE.	
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
· 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.	
· New Jersey Right-to-Know List:	
None of the ingredients is listed.	
· New Jersey Special Hazardous Substance List:	
None of the ingredients is listed.	
· Pennsylvania Right-to-Know List:	
CAS: 7757-82-6 sodium sulphate	
Pennsylvania Special Hazardous Substance List:	
CAS: 7757-82-6 sodium sulphate	E
EPA (Environmental Protection Agency)	<u> </u>
None of the ingredients is listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
Information about limitation of user blat required	

· Information about limitation of use: Not required.

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

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

H302 Harmful if swallowed. H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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H335 May cause respiratory irritation.	
· Version number / date of revision: 5 / 06/01/2023	
· Abbreviations and acronyms:	
OECD: Organisation for Economic Co-operation and Development	
STOT: specific target organ toxicity	
SE: single exposure	
RE: repeated exposure	
EC50: half maximal effective concentration	
IC50: half maximal inhibitory concentration	
NOEL or NOEC: No Observed Effect Level or Concentration	
ACGIH [®] - American Conference of Governmental Industrial Hygienists	
•A1 - Confirmed human carcinogen	
•A2 - Suspected human carcinogen	
•A3 - Confirmed animal carcinogen with unknown relevance to humans	
•A4 - Not classifiable as a human carcinogen	
•A5 - Not suspected as a human carcinogen IARC - International Agency for Research on Cancer	
•Group 1 - Carcinogenic to humans	
Group 2A - Probably carcinogenic to humans	
Group ZB - Possibly carcinogenic to humans	
Group 3 - Not classifiable as to carcinogenicity to humans	
Group 4 - Probably not carcinogenic to humans	
NTP - National Toxicology Program, U.S. Department of Health and Human Services	
•Group K - Known to be Human Carcinogens	
•Group R - Reasonably Anticipated to be Human Carcinogens	
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	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Acute Toxicity - Oral 4: Acute toxicity – Category 4	
Skin Irritation 2: Skin corrosion/irritation – Category 2	
Eve Irritation 2A: Serious eve damage/eve irritation – Category 2A	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3	
· Sources	
Data arise from safety data sheets, reference works and literature.	

Data arise from safety data sheets, reference works and literature. ECHA: European CHemicals Agency http://echa.europa.eu GESTIS- Stoffdatenbank (Substance Database, Germany)

• * Data compared to the previous version altered.

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