acc. to 29 CFR 1910.1200 App D

## Hardness Reagent, Total

Version number: 1.0

**SECTION 1: Identification** 

1.1 Product identifier

Trade name Product code(s)

Hardness Reagent, Total

HR2000SS

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Uses advised against laboratory and analytical use

Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin.

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### 1.3 Details of the supplier of the safety data sheet

AquaPhoenix Scientific, Inc 860 Gitts Run Road Hanover PA 17331 United States

Telephone: (717) 632-1291 e-mail: info@aquaphoenixsci.com

### 1.4 Emergency telephone number

Emergency information service

ChemTel Inc. (800) 255-3924 (North America) +1 (813) 248-0585 (International)

### SECTION 2: Hazard(s) identification

### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
A.2	skin corrosion/irritation	1	Skin Corr. 1	H314
A.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
A.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. Delayed or immediate effects can be expected after short or long-term exposure.

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger
- Pictograms

GHS05, GHS08



acc. to 29 CFR 1910.1200 App D

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Hazard statements	
H314	Causes severe skin burns and eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.
Precautionary statem	ents
P260	Do not breathe dusts or mists.
P280	Wear eye protection/face protection.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container to industrial combustion plant.
Hazardous ingredient	ts for labelling EDTA disodium salt dibydrate 2-amino-2-methyl-

- Hazardous ingredients for labelling

EDTA disodium salt dihydrate, 2-amino-2-methylpropanol

### 2.3 Other hazards

Hazards not otherwise classified

Safety data sheet available on request.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of  $\ge 0.1\%$ .

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq$  0.1%.

### **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

### Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Deionized water	CAS No 7732-18-5	> 95	not classified	none
EDTA disodium salt dihydrate	CAS No 6381-92-6	<3	Acute Tox. 4 / H332 STOT RE 2 / H373	()
2-Amino-2-methylpropanol	CAS No 124-68-5	<2	Skin Corr. 1 / H314 Eye Dam. 1 / H318	F
Sodium hydroxide	CAS No 1310-73-2	< 0.2	Acute Tox. 4 / H302 Skin Corr. 1A / H314 Eye Dam. 1 / H318	

acc. to 29 CFR 1910.1200 App D

### Hardness Reagent, Total

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms				
Calmagite	CAS No 3147-14-6	< 0.01	not classified	none				

For full text of abbreviations: see SECTION 16.

### **SECTION 4: First-aid measures**

#### 4.1 Description of first-aid measures

#### General notes

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Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

#### 4.3 Indication of any immediate medical attention and special treatment needed

none

#### **SECTION 5: Fire-fighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

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

Hazardous combustion products

Nitrogen oxides (NOx)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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acc. to 29 CFR 1910.1200 App D

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### **SECTION 6: Accidental release measures**

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

For non-emergency personnel Remove persons to safety.

#### For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

#### Appropriate containment techniques

Use of adsorbent materials.

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Control of the effects

Protect against external exposure, such as

frost

#### 7.3 Specific end use(s)

See section 16 for a general overview.

acc. to 29 CFR 1910.1200 App D

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### **SECTION 8: Exposure controls/personal protection**

#### 8.1 **Control parameters**

Occupational exposure limit values (Workplace Exposure Limits)

-	-			-	-					
Coun- try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [mg/m³]	Nota- tion	Source
US	sodium hydroxide	1310-73-2	REL					2		NIOSH REL
US	sodium hydroxide	1310-73-2	TLV®					2		ACGIH® 2023
US	sodium hydroxide	1310-73-2	PEL		2					29 CFR 1910.100 0
US	sodium hydroxide (caustic soda)	1310-73-2	PEL (CA)					2		Cal/ OSHA PEL

Notation

Ceiling-C

ceiling value is a limit value above which exposure should not occur short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) STEL TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours timeweighted average (unless otherwise specified

Relevant DNELs of components of the mixture							
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time	
EDTA disodium salt di- hydrate	6381-92-6	DNEL	1.5 mg/m³	human, inhalatory	worker (industry)	chronic - systemic ef- fects	
EDTA disodium salt di- hydrate	6381-92-6	DNEL	3 mg/m³	human, inhalatory	worker (industry)	acute - systemic ef- fects	
EDTA disodium salt di- hydrate	6381-92-6	DNEL	1.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects	
EDTA disodium salt di- hydrate	6381-92-6	DNEL	3 mg/m³	human, inhalatory	worker (industry)	acute - local effects	
2-amino-2-methylpro- panol	124-68-5	DNEL	6.5 mg/m³	human, inhalatory	worker (industry)	chronic - systemic ef- fects	
2-amino-2-methylpro- panol	124-68-5	DNEL	7.3 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic ef- fects	
sodium hydroxide	1310-73-2	DNEL	1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects	

acc. to 29 CFR 1910.1200 App D

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Relevant PNECs of components of the mixture							
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental com- partment	Exposure time	
EDTA disodium salt di- hydrate	6381-92-6	PNEC	2.5 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single in- stance)	
EDTA disodium salt di- hydrate	6381-92-6	PNEC	0.25 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single in- stance)	
EDTA disodium salt di- hydrate	6381-92-6	PNEC	50 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single in- stance)	
EDTA disodium salt di- hydrate	6381-92-6	PNEC	1.1 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single in- stance)	
2-amino-2-methylpro- panol	124-68-5	PNEC	0.188 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single in- stance)	
2-amino-2-methylpro- panol	124-68-5	PNEC	0.019 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single in- stance)	
2-amino-2-methylpro- panol	124-68-5	PNEC	10 <sup>mg</sup> /l	aquatic organisms	sewage treatment plant (STP)	short-term (single in- stance)	
2-amino-2-methylpro- panol	124-68-5	PNEC	0.71 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	short-term (single in- stance)	
2-amino-2-methylpro- panol	124-68-5	PNEC	0.071 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single in- stance)	
2-amino-2-methylpro- panol	124-68-5	PNEC	0.03 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single in- stance)	

#### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

acc. to 29 CFR 1910.1200 App D

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### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance	
Physical state	liquid
Color	blue
Particle	not relevant (liquid)
Odor	characteristic
Other safety parameters	
pH (value)	10
Melting point/freezing point	< 0 °C
Initial boiling point and boiling range	> 100 °C
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Vapor pressure	< 23.7 mmHg at 25 °C
Density	not determined
Vapor density	this information is not available
Relative density	information on this property is not available
Solubility(ies)	
- Water solubility	miscible in any proportion
Partition coefficient	
- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

acc. to 29 CFR 1910.1200 App D

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### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

There is no additional information.

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture						
Name of substance CAS No Exposure route ATE						
EDTA disodium salt dihydrate	6381-92-6	inhalation: dust/mist	1.5 <sup>mg</sup> / <sub>l</sub> /4h			
sodium hydroxide	1310-73-2	oral	325 <sup>mg</sup> / <sub>kg</sub>			

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

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Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of  $\geq$  0.1%.

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\ge 0.1\%$ .

#### 12.7 Other adverse effects

Data are not available.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

### Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

acc. to 29 CFR 1910.1200 App D

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101		Date of compliation. 2025-10-					
SECT	ION 14: Transport information						
14.1	UN number	not subject to transport regulations					
14.2	UN proper shipping name	not relevant					
14.3	Transport hazard class(es)	none					
14.4	Packing group	not assigned					
14.5	Environmental hazards	non-environmentally hazardous acc. to the dange ous goods regulations					
14.6	<b>Special precautions for user</b> There is no additional information.						
14.7	<b>Transport in bulk according to IMO instruments</b> The cargo is not intended to be carried in bulk.						
	Information for each of the UN Model Regulations						
	<b>Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information</b> Not subject to transport regulations.						
	International Maritime Dangerous Goods Code (IMDG) - Additional information Not subject to IMDG.						
	International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information Not subject to ICAO-IATA.						
SECT	ION 15: Regulatory information						
15.1	Safety, health and environmental regulations specific for the product in question						
	National regulations (United States)						
	Toxic Substance Control Act (TSCA)	all ingredients are listed (ACTIVE) or exempt from listing					
	Superfund Amendment and Reauthorization Act (SARA TITLE III )						
	- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)						
	none of the ingredients are listed						
	- Specific Toxic Chemical Listings (EPCRA Section 313 none of the ingredients are listed	- Specific Toxic Chemical Listings (EPCRA Section 313) none of the ingredients are listed					
	Comprehensive Environmental Response, Compe	nsation, and Liability Act (CERCLA)					
	- List of Hazardous Substances and Reportable Quar	ntities (CERCLA section 102a) (40 CFR 302.4)					

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
sodium hydroxide	1310-73-2		1	1000 (454)

Legend

"1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act

acc. to 29 CFR 1910.1200 App D

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### **Clean Air Act**

none of the ingredients are listed

### **Right to Know Hazardous Substance List**

### - Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
sodium hydroxide	1310-73-2		CO R1
2-amino-2-methylpropanol	124-68-5		F2

Legend

Corrosive

CO Flammable - Second Degree F2

R1 Reactive - First Degree

### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and **Toxic Enforcement Act of 1987**

none of the ingredients are listed

### Industry or sector specific available guidance(s)

#### **NPCA-HMIS® III**

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	3	major injury likely unless prompt action is taken and medical treatment is given
Flammability	0	material that will not burn under typical fire conditions
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

#### **NFPA® 704**

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	0	material that will not burn under typical fire conditions
Health	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

acc. to 29 CFR 1910.1200 App D

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### **National inventories**

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	not all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
VN	NCI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)

#### Legend

AIIC CICR	Australian Inventory of Industrial Chemicals Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NCI	National Chemical Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information, including date of preparation or last revision

### Abbreviations and acronyms

acc. to 29 CFR 1910.1200 App D

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Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Sub- stances (permissible exposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH® 2023	From ACGIH®, 2023 TLVs® and BEIs® Book. Copyright 2023. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presenta-tions/tlv-bei-position-statement
Acute Tox.	Acute toxicity
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
ΙΑΤΑ	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NLP	No-Longer Polymer
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure

acc. to 29 CFR 1910.1200 App D

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Abbr.	Descriptions of used abbreviations
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

#### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### **Classification procedure**

Physical and chemical properties: The classification is based on tested mixture. Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.