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1 Identification

- · Product identifier
- · Trade name:
- Article number: 2312
- · Application of the substance / the mixture Water treatment
- · Uses advised against
- Processes involving extreme heat use advised against.

Any use involving aerosol formation or vapour release in excess of the assigned WEL where workers are exposed without suitable Respiratory Protective Equpiment.

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Processes where workers who may be pregnant or breastfeeding could potentially come into direct contact with the undiluted product.

The product is intended exclusively for industrial and professional use.

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:
- · Information department: Product safety department.
- · Emergency telephone number:

The American Association of Poison Control Centers (24-hour hotline): 1-800-222-1222

2 Hazard(s) identification

 \cdot Classification of the substance or mixture

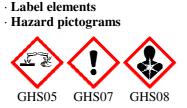
Acute Toxicity - Oral 4 Acute Toxicity - Dermal 4 Skin Corrosion 1B Eye Damage 1 Toxic to Reproduction 2 H302 Harmful if swallowed.

- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation.



· Signal word Danger

- · Hazard-determining components of labeling:
- Morpholine

Cyclohexylamine

N,N-diethylhydroxylamine

· Hazard statements

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

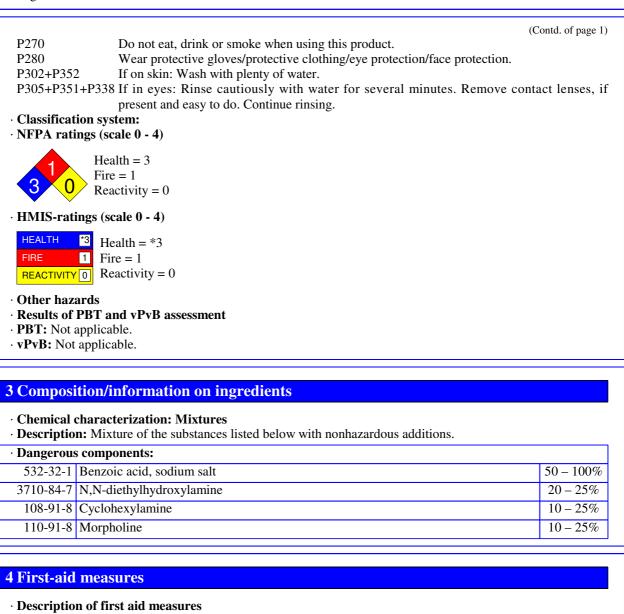
- H314 Causes severe skin burns and eye damage.
- H361 Suspected of damaging fertility or the unborn child.
- H335 May cause respiratory irritation.

· Precautionary statements

- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust.

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· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- Immediately rinse with water.
- If skin irritation continues, consult a doctor.
- · After eye contact:
- Check for and remove any contact lenses.
- Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing:
- Rinse out mouth and then drink plenty of water.
- Do not induce vomiting; call for medical help immediately.
- If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
- · Information for doctor: Treat symptomatically and supportively.
- · 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.

(Contd. on page 3)

(Contd. of page 2)

5 Fire-fighting measures

· Extinguishing media

 \cdot Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- \cdot Special hazards arising from the substance or mixture
- Corrosive.

During heating or in case of fire poisonous gases are produced.

Solid product. Product will melt and combustion may occur when exposed to fire conditions.

- · Advice for firefighters
- · Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

· Personal	precautions, protective equipment and emergency procedures	
	mation of dust.	
Ensure ad	equate ventilation	
Wear prot	ective equipment. Keep unprotected persons away.	
	nental precautions:	
	ow to penetrate the ground/soil.	
	ow to enter sewers/ surface or ground water.	
	and material for containment and cleaning up:	
	echanically.	
Send for r	ecovery or disposal in suitable receptacles.	
	equate ventilation.	
	e to other sections	
	on 7 for information on safe handling.	
	on 8 for information on personal protection equipment.	
	e Action Criteria for Chemicals	
· PAC-1:		
532-32-1	Benzoic acid, sodium salt	61 mg/m ³
108-91-8	Cyclohexylamine	1.8 ppm
110-91-8	Morpholine	30 ppm
· PAC-2:		
532-32-1	Benzoic acid, sodium salt	140 mg/m3
108-91-8	Cyclohexylamine	8.6 ppm
110-91-8	Morpholine	1,300 ppm
· PAC-3:		
532-32-1	Benzoic acid, sodium salt	830 mg/m3
108-91-8	Cyclohexylamine	30 ppm
110-91-8	Morpholine	8000** ppm
		US -

(Contd. on page 4)

(Contd. of page 3)

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.

Safety showers and eye wash facilities should be available at the work area.

Prevent formation of dust.

Ensure good ventilation/exhaustion at the workplace.

- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground. Do not store in aluminium, galvanised or copper containers.
- Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions:
- Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- Store in a bunded area.
- · Storage class: 8 A
- \cdot Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters

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

532-32-1 Benzoic acid, sodium salt

TLV Long-term value: 2.5 mg/m³ inh. fraction, Skin, A5

3710-84-7 N,N-diethylhydroxylamine

TLV Long-term value: 2 ppm

108-91-8 Cyclohexylamine

- REL Long-term value: 40 mg/m³, 10 ppm
- TLV Long-term value: 10 ppm
 - A4

110-91-8 Morpholine

- PEL Long-term value: 70 mg/m³, 20 ppm Skin
- REL Short-term value: 105 mg/m³, 30 ppm Long-term value: 70 mg/m³, 20 ppm Skin
- TLV Long-term value: 20 ppm Skin, A4

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

· Exposure controls

· Personal protective equipment:

- Select PPE appropriate for the operations taking place taking into account the product properties.
- · General protective and hygienic measures:
- Do not breathe dust
- Do not eat, drink, smoke or sniff while working.
- Take note of assigned Workplace Exposure Limits.

Keep away from foodstuffs, beverages and feed.

(Contd. of page 4)

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Pregnant women should strictly avoid inhalation or skin contact.

A safe system of work must be formulated and followed to ensure that workers who may be pregnant or breastfeeding do not come into direct contact with the product.

· Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

· Protection of hands:



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

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 **Material of gloves**

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

Penetration time of glove material

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

· Eye protection:



Tightly sealed goggles conforming to EN166.

· Body protection:



Impervious protective clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

Information on basic physical and of General Information	chemical properties	
Appearance:		
Form:	Solid	
Color:	Whitish	
Odor:	Amine-like	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	10.5 (4%)	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	>93 °C (>199.4 °F)	
Flammability (solid, gaseous):	Not determined.	

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	(Contd. of page
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density at 20 °C (68 °F):	1.2 g/cm ³ (10.014 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Soluble.
· Partition coefficient (n-octanol/wat	ter): Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Other information	NOTE: The physical data presented above are typical values an should not be construed as a specification.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

• **Possibility of hazardous reactions** The product is a strong base, it reacts violently with acid and is corrosive. Reacts violently with strong oxidants causing fire hazard.

Reaction with nitrosating agents (e.g. nitrites, nitrous acid, nitrous gases) can release carcinogenic nitrosamines.

- · Conditions to avoid No further relevant information available.
- · Incompatible materials:

Strong oxidising agents.

Strong acids.

Substances specifically listed in section 10.3 as incompatible.

• Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Metal oxide

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50	values that	t are relevant for classification:
ATE (Act	ite Toxicit	y Estimate)
Oral	LD50	760 mg/kg (rat)
Dermal	LD50	760 mg/kg (rat) 1,128.2 mg/kg
Inhalative		16.709 mg/l
		(Contd. on page 7)

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(Contd. of page 6)

532-32-1	Benzoic ac	id, sodium salt		
Oral	LD50	> 2,000 mg/kg (rat)		
Dermal	LD50	> 2,000 mg/kg (rab)t		
3710-84-7	/ N,N-dietł	nylhydroxylamine		
Oral	LD50	2,150 mg/kg (rat)		
108-91-8	Cyclohexy	lamine		
Oral	LD50	100 mg/kg /ATE (rat)		
Dermal	LD50	275 mg/kg /ATE (rat)		
110-91-8	110-91-8 Morpholine			
Oral	LD50	1,900 mg/kg (rat)		
Dermal	LD50	500 mg/kg (rabbit)		
· Primary	rritant eff	ect:		
		effect on skin and mucous membranes.		
	• on the eye: Strong caustic effect.			
· Sensitizat				
No sensiti	zing effects	s known.		

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

· Additional toxicological information:

ROUTES OF EXPOSURE: The component substances can variously be absorbed into the body by inhalation, through the skin and by ingestion.

EFFECTS OF SHORT-TERM EXPOSURE: The product is corrosive to the eyes, the skin and the respiratory tract. Corrosive on ingestion. May cause effects on the central nervous system.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

Inhalation may cause lung oedema, but only after initial corrosive effects on eyes and/or airways have become manifest. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him/her, should be considered.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
110-91-8 Morpholine	3
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingradiants is listed	

None of the ingredients is listed.

• Germ cell mutagenicity Based on available data, the classification criteria are not met.

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

· Reproductive toxicity Suspected of damaging fertility or the unborn child.

• Specific target organ toxicity - single exposure May cause respiratory irritation.

· Specific target organ toxicity - repeated exposure

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

· Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological information

· Toxicity

· Aquatic toxicity:

532-32-1 Benzoic acid, sodium salt

EC50 (96 h) > 100 mg/l (Bacteria)

3710-84-7 N,N-diethylhydroxylamine

EC50 (96 h) 8.2 mg/l (Bacteria)

(Contd. on page 8)

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(Contd. of page 7)

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110-91-8 Morpholine

EC50 (72 h) 64.6 mg/l (Algae)

- Persistence and degradability The organic portion of the product is biodegradable.
- · Behavior in environmental systems:
- · Bioaccumulative potential Product is not expected to bioaccumulate.
- \cdot Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- Water hazard class 1 (Self-assessment): slightly hazardous for water
- 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

· Waste treatment methods

- · Recommendation:
- Recommended Hierarchy of Controls:
- Minimize waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Contact waste processors for recycling information.

· Uncleaned packagings:

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

Container remains hazardous when empty. Continue to observe all precautions.

Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

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

14 Transport information

· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	UN3263
· UN proper shipping name	
·DOT	Corrosive solid, basic, organic, n.o.s. (Morpholine
	Cyclohexylamine)
· ADR/RID/ADN	UN3263 CORROSIVE SOLID, BASIC, ORGANIC, N.O.S
	(MORPHOLINE, CYCLOHEXYLAMINE)
· IMDG, IATA	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S
	(MORPHOLINE, CYCLOHEXYLAMINE)
· Transport hazard class(es)	
DOT	
CORROSIVE CORROSIVE	
· Class	8 Corrosive substances
	(Contd. on page

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	(Contd. of page
· Label	8
· ADR/RID/ADN	
· Class · Label	8 (C8) Corrosive substances 8
· IMDG, IATA	
· Class · Label	8 Corrosive substances 8
 Packing group DOT, ADR/RID/ADN, IMDG, IATA 	П
· Environmental hazards:	Not applicable.
 Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category Segregation Code 	Warning: Corrosive substances 80 F-A,S-B (SGG18) Alkalis B SG35 Stow "separated from" SGG1-acids
• 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.
 ADR/RID/ADN Excepted quantities (EQ) 	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
 · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· UN "Model Regulation":	UN 3263 CORROSIVE SOLID, BASIC, ORGANIC N.O.S. (MORPHOLINE, CYCLOHEXYLAMINE), 8, II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355 (extremely hazardous substances):

108-91-8 Cyclohexylamine

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed as ACTIVE.

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	(Contd. of page
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.	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
TLV (Threshold Limit Value)	
108-91-8 Cyclohexylamine	A
110-91-8 Morpholine	A
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
None of the ingredients is listed. • GHS label elements The product is classified and labeled according to the Globally Harmonized • Hazard pictograms	d System (GHS).
GHS label elements The product is classified and labeled according to the Globally Harmonized Hazard pictograms	d System (GHS).
GHS label elements The product is classified and labeled according to the Globally Harmonized	d System (GHS).
GHS label elements The product is classified and labeled according to the Globally Harmonized Hazard pictograms GHS05 GHS07 GHS08	d System (GHS).
GHS label elements The product is classified and labeled according to the Globally Harmonized Hazard pictograms Image: GHS05 GHS05 GHS07 GHS08 Signal word Danger Hazard-determining components of labeling:	d System (GHS).
GHS label elements The product is classified and labeled according to the Globally Harmonized Hazard pictograms Image: GHS05 GHS05 GHS07 GHS08 Signal word Danger Hazard-determining components of labeling: Morpholine	d System (GHS).
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GHS label elements The product is classified and labeled according to the Globally Harmonized Hazard pictograms Image: Comparison of the Globally Harmonized Image: GHS05 GHS05 GHS07 GHS08 Signal word Danger Hazard-determining components of labeling: Morpholine Cyclohexylamine Hazard statements H302+H312 Harmful if swallowed or in contact with skin. H314 Causes severe skin burns and eye damage.	d System (GHS).
GHS label elements The product is classified and labeled according to the Globally Harmonized Hazard pictograms Image: Comparison of the Globally Harmonized Image: GHS05 GHS05 GHS07 GHS08 Signal word Danger Hazard-determining components of labeling: Morpholine Cyclohexylamine N,N-diethylhydroxylamine Hazard statements H302+H312 Harmful if swallowed or in contact with skin. H314 Causes severe skin burns and eye damage. H361 Suspected of damaging fertility or the unborn child.	d System (GHS).
GHS label elements The product is classified and labeled according to the Globally Harmonized Hazard pictograms Image: Complexity of the Global state of GHS	d System (GHS).
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GHS label elements The product is classified and labeled according to the Globally Harmonized Hazard pictograms Image: Im	
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GHS label elements The product is classified and labeled according to the Globally Harmonized Hazard pictograms Image: Comparison of the Global product of Global product product of Global product of Global product product of Global product of Global product product of Global product product of Global product produ	d and understood.
GHS label elementsThe product is classified and labeled according to the Globally HarmonizedHazard pictograms(Image: Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="	d and understood. on/face protection.
GHS label elementsThe product is classified and labeled according to the Globally HarmonizedHazard pictograms $\overbrace{GHS05}^{\circ}$ GHS07 GHS08Signal word DangerHazard-determining components of labeling:MorpholineCyclohexylamineHazard statementsH302+H312 Harmful if swallowed or in contact with skin.H314 Causes severe skin burns and eye damage.H361 Suspected of damaging fertility or the unborn child.H335 May cause respiratory irritation.Precautionary statementsP202 Do not handle until all safety precautions have been reaP200 Do not eat, drink or smoke when using this product.P280 Wear protective gloves/protective clothing/eye protectiodP305+P351+P338 If in eyes: Rinse cautiously with water for several not several n	d and understood. on/face protection.
GHS label elementsThe product is classified and labeled according to the Globally HarmonizedHazard pictograms(Image: Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="	d and understood. on/face protection. ninutes. Remove contact lenses,

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.

· Department issuing SDS: Product safety department.

*

(Contd. on page 11)

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(Contd. of pa	ige 10)
Contact:	-
Date of preparation / last revision 07/24/2024 / 2	
Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerni	ng tha
International Carriage of Dangerous Goods by Road)	ng the
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)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent	
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 Toxicity - Oral 4: Acute toxicity – Category 4	
Skin Corrosion 1B: Skin corrosion/irritation – Category 1B	
Eye Damage 1: Serious eye damage/eye irritation – Category 1	
Toxic to Reproduction 2: Reproductive toxicity – Category 2	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3	
* Data compared to the previous version altered.	
	US