Printing date 10/16/2023

Reviewed on 10/16/2023

1 Identification

- · Product identifier
- · Trade name:
- · Article number: 2399
- · Application of the substance / the mixture Water treatment
- · Uses advised against
- Processes involving extreme heat use advised against.

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

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

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

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:

CHEMTREC: 800-424-9300 (Domestic North America) OR 703-527-3887 (International, collect calls accepted).

2 Hazard(s) identification

· Classification of the substance or mixture

GHS08 Health hazard

Toxic to Reproduction 1B

H360 May damage fertility or the unborn child.

GHS07

\mathbf{V}	
Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure 3	H335 May cause respiratory irritation.
 Label elements GHS label elements The product is classified and labeled according to th Hazard pictograms GHS07, GHS08 Signal word Danger 	ne Globally Harmonized System (GHS).
 Hazard-determining components of labeling: disodium tetraborate, anhydrous Trisodium phosphate Hazard statements Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child. May cause respiratory irritation. Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protective 	ection/face protection.
	(Contd. on page 2)

Printing date 10/16/2023

Reviewed on 10/16/2023

(Contd. of page 1)
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Call a poison center/doctor if you feel unwell.
Take off contaminated clothing and wash it before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification system:
· NFPA ratings (scale 0 - 4)
Health $= 2$
Fire = 0
2 0 Reactivity = 0
· HMIS-ratings (scale 0 - 4)
HEALTH *2 Health = $*2$
FIRE 0 Fire = 0
REACTIVITY Reactivity = 0
· Other hazards
· Results of PBT and vPvB assessment
• PBT: Not applicable.
· vPvB: Not applicable.
2 Composition (information on incredients
3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous	components:	
497-19-8	Sodium carbonate	25 - 50%
7601-54-9	Trisodium phosphate	25 - 50%
1330-43-4	disodium tetraborate, anhydrous	5 - 15%
25322-68-3	Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	2.5 - 10%

4 First-aid measures

- \cdot Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

- 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. If symptoms persist, 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)

US

Reviewed on 10/16/2023

(Contd. of page 2)

5 Fire-fighting measures	
· Extinguishing media	
· Suitable extinguishing agents:	
CO2, extinguishing powder or water spray. Fight larger fires with water spray.	
Use fire fighting measures that suit the environment.	
• For safety reasons unsuitable extinguishing agents: Water with full jet	
• Special hazards arising from the substance or mixture In case of fire, the following can be released:	
Carbon monoxide (CO)	
Phosphorous oxides	
Sodium oxide	
· Advice for firefighters	
· Protective equipment:	
Wear self-contained respiratory protective device.	
Do not inhale explosion gases or combustion gases. Wear fully protective suit.	
· Additional information	
Collect contaminated fire fighting water separately. It must not enter the sewage system.	
6 Accidental release measures	
· Personal precautions, protective equipment and emergency procedures	
Avoid formation of dust.	
Ensure adequate ventilation	
· Environmental precautions:	
Do not allow to penetrate the ground/soil.	
Do not allow to enter sewers/ surface or ground water.	
• Methods and material for containment and cleaning up:	
Pick up mechanically.	
Send for recovery or disposal in suitable receptacles. Ensure adequate ventilation.	
· Reference to other sections	
• Reference to other sections See Section 7 for information on safe handling.	
 Keterence to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. 	
See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
 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 	
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:	
 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 	7.6 mg/n
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:	7.6 mg/n 6 mg/m ³
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: 497-19-8 Sodium carbonate	6 mg/m ³
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-1:497-19-8Sodium carbonate1330-43-4disodium tetraborate, anhydrous25322-68-3Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	6 mg/m ³
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: 497-19-8 Sodium carbonate 1330-43-4 disodium tetraborate, anhydrous 25322-68-3 Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated • PAC-2:	6 mg/m ³ 30 mg/m
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: 497-19-8 Sodium carbonate 1330-43-4 disodium tetraborate, anhydrous 25322-68-3 Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated • PAC-2: 497-19-8 Sodium carbonate	6 mg/m ³ 30 mg/m 83 mg/m ³
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-1:497-19-830-43-4disodium carbonate1330-43-4Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated• PAC-2:497-19-8Sodium carbonate1330-43-4disodium tetraborate, anhydrous25322-68-3Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated• PAC-2:497-19-8Sodium carbonate1330-43-4disodium tetraborate, anhydrous	6 mg/m ³ 30 mg/m 83 mg/m ³ 88 mg/m ³
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-1:497-19-8497-19-8Sodium carbonate1330-43-4disodium tetraborate, anhydrous25322-68-3Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated• PAC-2:497-19-8Sodium carbonate1330-43-4disodium tetraborate, anhydrous25322-68-3Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated25322-68-3Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	6 mg/m ³ 30 mg/m 83 mg/m ³ 88 mg/m ³
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-1:497-19-8497-19-8Sodium carbonate1330-43-4disodium tetraborate, anhydrous25322-68-3Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated497-19-8Sodium carbonate1330-43-4disodium tetraborate, anhydrous25322-68-3Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated• PAC-2:497-19-8Sodium carbonate1330-43-4disodium tetraborate, anhydrous25322-68-3Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated• PAC-3:	6 mg/m ³ 30 mg/m 83 mg/m ³ 88 mg/m ³ 1,300 mg/n
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-1:497-19-8497-19-8Sodium carbonate1330-43-4disodium tetraborate, anhydrous25322-68-3Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated• PAC-2:497-19-8Sodium carbonate1330-43-4disodium tetraborate, anhydrous25322-68-3Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated• PAC-2:497-19-8Sodium carbonate1330-43-4disodium tetraborate, anhydrous25322-68-3Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated• PAC-3:497-19-8Sodium carbonate497-19-8Sodium carbonate	6 mg/m ³ 30 mg/m 83 mg/m ³ 88 mg/m ³
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-1:497-19-8497-19-8Sodium carbonate1330-43-4disodium tetraborate, anhydrous25322-68-3Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated497-19-8Sodium carbonate1330-43-4disodium tetraborate, anhydrous25322-68-3Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated497-19-8Sodium carbonate1330-43-4disodium tetraborate, anhydrous25322-68-3Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated• PAC-3:	30 mg/m 83 mg/m ³ 88 mg/m ³ 1,300 mg/m

(Contd. on page 4)

US

Reviewed on 10/16/2023

(Contd. of page 3)

7 Handling and storage

· Handling:

 \cdot 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.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about protection against explosions and fires: Keep respiratory protective device available.

\cdot 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 or galvanised containers.

- Information about storage in one common storage facility: Store away from oxidizing agents.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- Storage class: 6.1 C
- 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:

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

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

	•
7601-54	4-9 Trisodium phosphate
WEEL	Short-term value: 5 mg/m ³
1330-4	3-4 disodium tetraborate, anhydrous
REL	Long-term value: 1 mg/m ³ anhydrous
TLV	Short-term value: 6* mg/m ³ Long-term value: 2* mg/m ³ *as inhalable fraction, A4
25322-	68-3 Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated
WEEL	Long-term value: 10 mg/m ³ (H); MW>200
· Additio	onal information: The lists that were valid during the creation were used as basis.
 Person Select F Genera The usu Do not Take not 	al protective equipment: PPE appropriate for the operations taking place taking into account the product properties. al protective and hygienic measures: nal precautionary measures for handling chemicals should be followed. eat, drink, smoke or sniff while working. but of assigned Workplace Exposure Limits. breathe dust
A safe breastfe Keep av Immedi Wash h Store pr Avoid c	system of work must be formulated and followed to ensure that workers who may be pregnant or eeding do not come into direct contact with the product. way from foodstuffs, beverages and feed. iately remove all soiled and contaminated clothing. ands before breaks and at the end of work. rotective clothing separately. contact with the eyes and skin. that eyewash stations and safety showers are close to the workstation location.
	(Contd. on page 5)

(Contd. of page 4)

• **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation. • **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:



Safety glasses with side-shields conforming to EN166.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

· Body protection:



Protective work clothing

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

Physical and chemical proper	rues	
Information on basic physical and	chemical properties	
General Information		
Appearance:	~	
Form:	Solid	
Color:	Whitish	
Odor:	Mild	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	11 – 12 (1%)	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	1,575 °C (34.875 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
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):	1.289 g/cm ³ (10.757 lbs/gal)	
Relative density	Not determined.	

Printing date 10/16/2023

Reviewed on 10/16/2023

	(Contd. of page 5
· 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.
· Solvent content:	
VOC content:	0.00~%
· Other information	NOTE: The physical data presented above are typical values and 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 No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- **Incompatible materials:** Strong oxidising agents. Strong acids.
- Hazardous decomposition products: Phosphorus compounds Metal oxide Boron compounds

11 Toxicological information

· Information on toxicological effects

- Acute toxicity:
- · LD/LC50 values that are relevant for classification:
- 497-19-8 Sodium carbonate

Oral LD50 > 5,000 mg/kg (rat)

Dermal LD50 > 2,000 mg/kg (rabbit)

7601-54-9 Trisodium phosphate

Oral LD50 > 2,000 mg/kg (rat)

Dermal LD50 > 5,000 mg/kg (rabbit)

25322-68-3 Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated

Oral LD50 > 2,000 mg/kg (rat)

Dermal LD50 > 5,000 mg/kg (rabbit)

· Primary irritant effect:

- \cdot on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization:
- No sensitizing effects known.
- Based on available data, the classification criteria are not met.
- \cdot Additional toxicological information:

ROUTES OF EXPOSURE: Can be absorbed into the body by inhalation and by ingestion.

(Contd. on page 7)

⁻ US

Reviewed on 10/16/2023

(Contd. of page 6) The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

 \cdot NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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

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

- **Reproductive toxicity** May damage 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:

497-19-8 Sodium carbonate

EC50 (96 h) 200 mg/l (Bacteria)

7601-54-9 Trisodium phosphate

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

25322-68-3 Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated

EC50 (96 h) > 1,000 mg/l (Bacteria)

• **Persistence and degradability** The organic portion of the product is biodegradable.

- · Behavior in environmental systems:
- **Bioaccumulative potential** Product is not expected to bioaccumulate.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

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.

(Contd. on page 8)

⁻ US

Reviewed on 10/16/2023

(Contd. of page 7)

· Uncleaned packagings:

· Recommendation:

Disposal must be made according to official regulations.

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

11 I I I I I I I I I I I I I I I I I I	
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	Void
· UN proper shipping name · DOT, ADR/RID/ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR/RID/ADN, ADN, IMDG, IAT · Class	ГА Void
· Packing group · DOT, ADR/RID/ADN, IMDG, IATA	Void
· Environmental hazards:	Not applicable.
· 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.
· UN "Model Regulation":	Void

15 Regulatory information

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

· Sara

 \cdot Section 355 (extremely hazardous substances):

7601-54-9 Trisodium phosphate

· Section 313 (Specific toxic chemical listings):

7601-54-9 Trisodium phosphate

· TSCA (Toxic Substances Control Act):

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.

(Contd. on page 9)

US

Printing date 10/16/2023

*

(Contd.	of page 8)
· Cancerogenity categories	
· EPA (Environmental Protection Agency)	
1330-43-4 disodium tetraborate, anhydrous	I (oral)
• TLV (Threshold Limit Value)	
1330-43-4 disodium tetraborate, anhydrous	A4
• NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
· GHS label elements	
 • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms GHS07, GHS08 • Signal word Danger 	
· Hazard-determining components of labeling:	
disodium tetraborate, anhydrous	
Trisodium phosphate • Hazard statements	
Causes skin irritation.	
Causes serious eye irritation.	
May damage fertility or the unborn child.	
May cause respiratory irritation.	
• Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray	
Wear protective gloves/protective clothing/eye protection/face protection.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and eas	y to do.
Continue rinsing.	
IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
Store in a well-ventilated place. Keep container tightly closed.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations. • Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	
· 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 specific product features and shall not establish a legally valid contractual relationship.	for any
• Department issuing SDS: Product safety department.	
• Contact:	
Date of preparation / last revision 10/16/2023 Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Conce	rning the
International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
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 (Contd. or	

(Contd. on page 10)

Printing date 10/16/2023

Reviewed on 10/16/2023

(Contd. of page 9)

US

Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Toxic to Reproduction 1B: Reproductive toxicity – Category 1B Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 · * **Data compared to the previous version altered.**