

SAFETY DATA SHEET

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Previous Issue Date 03/25/2021

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Version 1.2

SAFETY DATA SHEET

WT-1000

Section 1. Identification

GHS product identifier : WT-1000

Chemical name : Mixture of polycarboxylic acids and a phosphonic acid.

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

Identified uses					
Antiscalant					
		Uses advised against			
Reason	:	None identified.			

Manufacturer Address

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

Emergency telephone number

Chemtrec 1-800-424-9300

Section 2. Hazards identification

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OSHA/HCS status : This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Classification of the substance or

mixture

CORROSIVE TO METALS - Category 1 SERIOUS EYE DAMAGE - Category 1

GHS label elements

Hazard pictograms

(FE)

Signal word : Danger

Hazard statements : May be corrosive to metals.

Causes serious eye damage.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice

is needed, have product container or label at hand.

PreventionWear eye or face protection. Keep only in original container. **Response**Absorb spillage to prevent material damage. IF IN EYES: Rinse

cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a POISON

CENTER or physician.

Storage: Store in a corrosion resistant container with a resistant inner liner.

Disposal : Not applicable.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Chemical name : Mixture of polycarboxylic acids and a phosphonic acid.

Other means of identification : WT-1000

Ingredient name	%	CAS number
Polycarboxylic acid	Proprietary	-
Polycarboxylic acid.	Proprietary	-
Phosphonic acid, P,P'-(1-hydroxyethylidene)bis-	1 - 5	2809-21-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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Section 4. First aid measures

Description of necessary first aid measures

Eye contact: Get medical attention immediately. Call a poison center or

physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must

be treated promptly by a physician.

Inhalation : Get medical attention immediately. Call a poison center or

physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery

position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact : Get medical attention immediately. Call a poison center or

physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly

before reuse.

Ingestion : Get medical attention immediately. Call a poison center or

physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get

medical attention immediately. Maintain an open airway. Loosen tight

clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

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Eye contact: Adverse symptoms may include the following: pain, watering, redness

Inhalation : No specific data. Adverse symptoms may include the following:,

respiratory tract irritation

Skin contact : Adverse symptoms may include the following: pain or irritation,

redness, blistering may occur

Ingestion: Adverse symptoms may include the following: stomach pains, nausea

or vomiting

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without

suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media: Use dry chemical, CO₂, water spray (fog) or foam. Dry sand or other

suitable absorbent.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical

Hazardous thermal decomposition

products

In a fire or if heated, a pressure increase will occur and the container may burst. Use water spray to keep fire-exposed containers cool.

In a fire, decomposition may produce toxic gases/fumes.

Decomposition products may include the following materials:, carbon dioxide, carbon monoxide, phosphorus oxides, nitrogen oxides, sulfur

oxides

Special protective actions for fire-

fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any

personal risk or without suitable training.

Special protective equipment for

fire-fighters

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated

in positive pressure mode.

Remark : Not applicable.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

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Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands

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and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a corrosion resistant container with a resistant inner liner. Store locked up. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep away from food, drink and animal feeding stuffs. Keep away from: alkalis acids reducing agents oxidizing agents aluminium Cyanides

Storage temperature : Do not store above the following temperature: 50 °C

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Appropriate engineering controls

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

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Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved

standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves

cannot be accurately estimated.

Body protection: Personal protective equipment for the body should be selected based

on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures

should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this

product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that

meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper

fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state : liquid

Color : Pale color. Light Yellow.

Odor : slight, acidic
Odor threshold : Not available.

pH : <2

Melting point : <-5 °C (<23 °F)

Boiling point : 100 - 102 °C (212 - 216 °F)

Flash point : Not available.
Evaporation rate : Not available.
Flammability (solid, gas) : Not available.

Lower and upper explosive : Lower: Not available. (flammable) limits : Upper: Not available.

Vapor pressure: Not available.Vapor density: Not available.Relative density: 1.14 - 1.17

Solubility : Miscible in water.

Solubility in water : Water-soluble liquid

Partition coefficient: n- : < 0

octanol/water

Auto-ignition temperature : Not available.

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Decomposition temperature

Not available.

Viscosity **Dynamic:** Not available.

Kinematic:9 - 15 mm2/s @ 25 °C (77 °F)

Flow time (ISO 2431) Not available.

Section 10. Stability and reactivity

Reactivity Keep away from the following materials to prevent strong exothermic

reactions: alkalis

Chemical stability Stable under recommended storage and handling conditions (see

Section 7).

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will

not occur.

Conditions to avoid Keep away from heat and direct sunlight.

Incompatible materials Reactive or incompatible with the following materials: strong alkalis,

oxidizing agents, reducing agents, metals

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be produced., In a fire, decomposition may

produce toxic gases/fumes., Decomposition products may include the following materials:, carbon monoxide, carbon dioxide, oxides of

nitrogen, phosphorus oxides, sulfur oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	
Phosphonic acid, P,P'-(1-hydroxyethylidene)bis-					
	LD50 Oral	Rat	2,400 mg/kg	-	
	LD50 Dermal	Rabbit	> 6,000 mg/kg	-	
WT-1000					
	LD50 Oral	Rat	2,400 mg/kg	-	

Conclusion/Summary Conclusive but not sufficient for classification.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
WT-1000	Skin - Irritation score	Mammal	-		-
	404 Acute Dermal				

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	Irritation/Corrosion				
Remarks:	Non-irritant to skin.				
Phosphonic acid, P,P'-(1-hydroxyethylidene)bis-	Skin - Moderate irritant	Rabbit	-	24 hrs	168 hrs
	Eyes - Cornea opacity	Rabbit	90	24 hrs	168 hrs

Conclusion/Summary

Skin: Non-irritating to the skin.Eyes: Causes serious eye damage.

Respiratory: No known significant effects or critical hazards.

Sensitization

Conclusion/Summary

Skin : Not sensitizing

Respiratory: No known significant effects or critical hazards.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Phosphonic acid, P,P'-(1-	471 Bacterial Reverse	Subject: Bacteria	Negative
hydroxyethylidene)bis-	Mutation Test	Experiment: In vitro	

Conclusion/Summary: No known significant effects or critical hazards.

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Phosphonic acid, P,P'-(1-	Negative - Oral -	Rat	384 mg/kg	104 weeks Repeated
hydroxyethylidene)bis-	NOAEL		Repeated dose	dose; 7 days per week
				Repeated dose

Conclusion/Summary: No known significant effects or critical hazards.

Reproductive toxicity

Conclusion/Summary : No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary : No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

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Information on the likely routes of

exposure

Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following: pain, watering, redness

Inhalation: No specific data. Adverse symptoms may include the following:,

respiratory tract irritation

Skin contact : Adverse symptoms may include the following: pain or irritation,

redness, blistering may occur

Ingestion: Adverse symptoms may include the following: stomach pains, nausea

or vomiting

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Phosphonic acid, P,P'-(1-	NOAEL Oral	Rat	30 mg/kg	28 days Repeated
hydroxyethylidene)bis-			Repeated dose	dose; 7 days per
				week Repeated
				dose
	NOAEL Oral	Dog - Male	1,746 mg/kg	90 days Repeated
			Repeated dose	dose; 7 days per
			409 Repeated	week Repeated
			Dose 90-Day	dose
			Oral Toxicity	
			Study in Non-	
			Rodents	
	NOAEL Oral	Rat - Female	1,724 mg/kg	90 days Repeated
			Repeated dose	dose; 7 days per
			408 Repeated	week Repeated
			Dose 90-Day	dose

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		Oral Toxicity	
		Study in Rodents	
NOAEL Oral	Dog - Female	1,620 mg/kg	90 days Repeated
		409 Repeated	dose; 7 days per
		Dose 90-Day	week Repeated
		Oral Toxicity	dose
		Study in Non-	
		Rodents	
NOAEL Oral	Rat - Male	1,583 mg/kg	90 days Repeated
		Repeated dose	dose; 7 days per
		408 Repeated	week Repeated
		Dose 90-Day	dose
		Oral Toxicity	
		Study in Rodents	

Conclusion/Summary: No known significant effects or critical hazards.

General:No known significant effects or critical hazards.Carcinogenicity:No known significant effects or critical hazards.Mutagenicity:No known significant effects or critical hazards.Teratogenicity:No known significant effects or critical hazards.Developmental effects:No known significant effects or critical hazards.Fertility effects:No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure		
WT-1000					
	Acute LC50 > 1,000 mg/l	Fish	96 h		
	Acute LC50 > 1,000 mg/l	Flatfish, flounder	96 h		
	Marine water				
	Acute LC50 695 mg/l Fresh	Fathead minnow	96 h		
	water				
	Acute EC50 > 1,000 mg/l	Water flea	48 h		
	Acute LC50 707 mg/l	Daphnia	48 h		
Remarks - Acute - Aquatic	Conclusive but not sufficient for classification.				
invertebrates.:					
	Acute IC50 > 100 mg/l	Marine algae	72 h		
	Acute IC50 > 100 mg/l	Algae	72 h		

Conclusion/Summary : Conclusive but not sufficient for classification.

Persistence and degradability

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Product/ingredient name	Test	Result	Dose	Inoculum
Phosphonic acid, P,P'-(1-	301D Ready	22.88 % - 5 d	120 mg/l	Activated sludge
hydroxyethylidene)bis-	Biodegradability			
	- Closed Bottle			
	Test			
	302A Inherent	10.2 % - 1 d	-	Activated sludge
	Biodegradability:			
	Modified SCAS			
	Test			
	302A Inherent	7.0 % - 3 d	-	Activated sludge
	Biodegradability:			
	Modified SCAS			
	Test			
	302B Inherent	23 - 33 % - 30 d	500 mg/l	Activated sludge
	Biodegradability:			
	Zahn-			
	Wellens/EMPA			
	Test			

Conclusion/Summary : Not readily biodegradable.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability		
Phosphonic acid, P,P'-(1-hydroxyethylidene)bis-					
	-	17 d (7 %)	Not readily		

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Phosphonic acid, P,P'-(1-	-3.5	71.00	low
hydroxyethylidene)bis-			
WT-1000	< 0	-	low

Mobility in soil

Soil/water partition coefficient

(KOC)

Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the

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requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	UN3265	UN3265	UN3265	UN3265	UN3265
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (polycarboxylic acids and a phosphonic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (polycarboxylic acids and a phosphonic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (polycarboxylic acids and a phosphonic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (polycarboxylic acids and a phosphonic acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (polycarboxylic acids and a phosphonic acid)
Transport hazard class(es)	8	8	8	8	8
Packing group	Ш	III	Ш	III	III
Environmental hazards	No.	No.	No.	No.	No.

Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments

Not available.

Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112(b)
Hazardous Air Pollutants (HAPs)

: Not listed

Clean Air Act Section 602 Class I : Not listed

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Substances

Clean Air Act Section 602 Class II : Not listed

Substances

DEA List I Chemicals (Precursor: Not listed

Chemicals)

DEA List II Chemicals (Essential: Not listed

Chemicals)

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : CORROSIVE TO METALS - Category 1

SERIOUS EYE DAMAGE - Category 1

Composition/information on ingredients

Name	%	Classification
Polycarboxylic acid	Proprietary	CORROSIVE TO METALS - Category 1 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2
Polycarboxylic acid.	Proprietary	CORROSIVE TO METALS - Category 1 EYE IRRITATION - Category 2A
Phosphonic acid, P,P'-(1-hydroxyethylidene)bis-	1 - 5	CORROSIVE TO METALS - Category 1 ACUTE TOXICITY - Category 4 - oral SERIOUS EYE DAMAGE - Category 1

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

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International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Chemical Weapons Convention List Schedule I Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule II Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule III Chemicals

None of the components are listed.

Montreal Protocol

None of the components are listed.

Stockholm Convention on Persistent Organic Pollutants

Annex A - Elimination - Production

None of the components are listed.

Annex A - Elimination - Use

None of the components are listed.

Annex B - Restriction - Production

None of the components are listed.

Annex B - Restriction - Use

None of the components are listed.

Annex C - Unintentional - Production

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Rotterdam Convention on Prior Informed Consent (PIC) - Industrial

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide

None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Heavy metals - Annex 1

None of the components are listed.

POPs - Annex 1 - Production

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None of the components are listed.

POPs - Annex 1 - Use

None of the components are listed.

POPs - Annex 2

None of the components are listed.

POPs - Annex 3

None of the components are listed.

Inventory list

Australia: All components are listed or exempted.Canada: All components are listed or exempted.China: All components are listed or exempted.Europe: All components are listed or exempted.

Japan : Japan inventory (ENCS): All components are listed or exempted.

Japan inventory (ISHL): All components are listed or exempted.

New Zealand All components are listed or exempted. **Philippines** All components are listed or exempted. Republic of Korea All components are listed or exempted. **Taiwan** All components are listed or exempted. **Thailand** All components are listed or exempted. All components are listed or exempted. **Turkey United States** All components are listed or exempted. Viet Nam All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

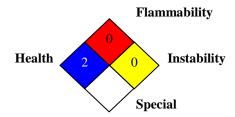
Health	/	3
Flammability		0
Physical hazards		4

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

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National Fire Protection Association (U.S.A.)



Procedure used to derive the classification

Classification	Justification
CORROSIVE TO METALS - Category 1	Expert judgment
SERIOUS EYE DAMAGE - Category 1	Expert judgment

History

Date of printing: 12/14/2021Date of issue/Date of revision: 04/13/2021Date of previous issue: 03/25/2021Version: 1.2

Prepared by : POLLAD

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

 $LogPow = logarithm\ of\ the\ octanol/water\ partition\ coefficient$

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine

pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

References : Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.