alpha

Safety Data Sheet

Section 1. Identification	
Product name	: ALPHA® WS-809 Paste Flux
Product code	: 149003
Product type	: Solid.
Date of issue/Date of revision	: September 20 2023.

Manufacturer - Supplier	Telephone no.:	Emergency phone:
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Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 1B AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May damage fertility or the unborn child. Very toxic to aquatic life with long lasting effects.
Precautionary statements	

Section 2. Hazards identification

Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Avoid breathing dust. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: Collect spillage. IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. 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 doctor.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Do not taste or swallow. Wash thoroughly after handling.
Hazards not otherwise classified	: Causes digestive tract burns.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number	
Solvent	20-30	-	
Surfactant.	10-20	-	
Amine	1-10	-	
Surfactant.	1-10	-	
Organic acid	1-10	-	
Rosin/Resin	1-10	-	
Surfactant.	1-10	-	
Amine	1-10	-	
Glycol Ether	1-10	-	
Organic acid	1-10	-	
Thixotrope	1-10	-	
Amine	1-10	-	
Organic acid	1-10	-	
Surfactant.	1-10	-	
Surfactant.	0.1-1.0	-	
Antioxidant.	0.1-1.0	-	

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 and hence require reporting in this section.

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

Section 4. First aid measures

Description of	necessary firs	t aid measures

Eye contact	: Get medical attention immediately. Call a poison center or physician. Check for and remove any contact lenses. Immediately flush eyes with running water for at least 30 minutes, keeping eyelids open. 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 mists 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of 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 15 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. 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. 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 :	Causes severe burns. May cause an allergic skin reaction.
Ingestion :	Harmful if swallowed. Corrosive to the digestive tract. Causes burns.
Over-exposure signs/sympton	<u>ns</u>
Eye contact :	Adverse symptoms may include the following: pain watering redness
Inhalation :	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact :	Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

Section 4. First aid measures

Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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 mists 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 an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	: None known.	
Specific hazards arising from the chemical	: This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.	
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds	
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 self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures		
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. 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".

Section 6. Accidental release measures

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). Water polluting material. May be harmful to
	the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

Small spill	: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. 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	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. 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. Empty containers retain product residue and can be hazardous. Do not reuse container.
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 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 between the following temperatures: 19 to 25°C (66.2 to 77°F). 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 locked up. 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. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters	
Occupational exposure limits	
Rosin/Resin	ACGIH TLV (United States, 3/2017). Skin sensitizer. Inhalation sensitizer.
Amine	ACGIH TLV (United States, 3/2017). TWA: 5 mg/m ³ 8 hours.
Thixotrope	ACGIH TLV (United States, 6/2007). TWA: 3 mg/m ³ Form: Respirable TWA: 10 mg/m ³ Form: Total OSHA PEL (United States, 6/2007). TWA: 5 mg/m ³ Form: Respirable

Section 8. Exposure controls/personal protection

Antioxidant.	TWA: 10 mg/m ³ Form: Total ACGIH TLV (United States, 3/2017). Notes: 1996 Adoption Refers to Appendix A Carcinogens. Inhalable fraction. See Appendix C, paragraph A. Inhalable Particulate Mass TLVs (IPM-TLVs) for those materials that are hazardous when deposited anywhere in the respiratory tract. Vapor and aerosol TWA: 2 mg/m ³ 8 hours. Form: Inhalable fraction and vapor NIOSH REL (United States, 10/2016). TWA: 10 mg/m ³ 10 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 10 mg/m ³ 8 hours.
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 measured	res
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. Contaminated work clothing should not be allowed out of the workplace. 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.
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 and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>		
Physical state	Solid.	
Color	Off-white.	
Odor	Odorless.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	Not available.	
Boiling point, initial boiling point, and boiling range	Not available.	
Flash point	Closed cup: 185°C (365°F)	
Evaporation rate	Not available.	
Flammability	Not available.	
Lower and upper explosion limit/flammability limit	Not applicable.	
Vapor pressure	Not available.	
Relative vapor density	Not applicable.	
Relative density	Not available.	
Solubility	Soluble in the following materials: cold water and hot water.	
VOC	527.2 g/l	
Partition coefficient: n- octanol/water	Not applicable.	
Auto-ignition temperature	Not applicable.	
Decomposition temperature	Not available.	
Viscosity	Not applicable.	
Flow time (ISO 2431)	Not available.	
Particle characteristics		
Median particle size	Not available.	

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Incompatibility with various substances	 Reactive or incompatible with the following materials: oxidizing materials, reducing materials, acids, alkalis and moisture. peroxides
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Other Hazardous decomposition products	: carbon oxides (CO, CO ₂)
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Solvent	LD50 Oral	Rat	410 mg/kg	-
	LD50 Oral	Rat	>4300 mg/kg	-
Surfactant.	LD50 Oral	Rat	410 mg/kg	-
	LD50 Oral	Rat	>500 mg/kg	-
Amine	LD50 Oral	Rat	3.28 g/kg	-
	LD50 Oral	Rat	>500 mg/kg	-
Surfactant.	LD50 Oral	Rat	1260 mg/kg	-
	LD50 Oral	Rat	1260 mg/kg	-
	LD50 Oral	Rat	2070 mg/kg	-
	LDLo Dermal	Rabbit	1260 mg/kg	-
Organic acid	LD50 Oral	Rat	>2000 mg/kg	-
Rosin/Resin	LD50 Oral	Mouse	2.2 g/kg	-
	LD50 Oral	Rat	3 g/kg	-
Surfactant.	LD50 Oral	Rat	2700 mg/kg	-
	LD50 Oral	Rat	2770 mg/kg	-
	LD50 Oral	Rat	25800 mg/kg	-
Amine	LD50 Oral	Rat	7.39 g/kg	-
Glycol Ether	LD50 Oral	Rat	5140 mg/kg	-
Organic acid	LD50 Dermal	Rabbit	>10000 mg/kg	-
	LD50 Oral	Rat	2750 mg/kg	-
	LD50 Oral	Rat	6000 mg/kg	-
Thixotrope	LD50 Oral	Rat	>5 g/kg	-
Amine	LD50 Oral	Rat	1715 mg/kg	-
	LD50 Oral	Rat	1715 mg/kg	-
Organic acid	LD50 Oral	Rat	2570 mg/kg	-
Surfactant.	LD50 Dermal	Rat	>10 g/kg	-
	LD50 Oral	Rat	500 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
	LD50 Oral	Rat	620 mg/kg	-
	LD50 Oral	Rat	689 mg/kg	-
Surfactant.	LD50 Oral	Rat	945 mg/kg	-
Antioxidant.	LD50 Oral	Mouse	650 mg/kg	-
	LD50 Oral	Rabbit	2100 mg/kg	-
	LD50 Oral	Rat	890 mg/kg	-
	LD50 Oral	Rat	890 mg/kg	-
	LDLo Oral	Cat	940 mg/kg	-
	LDLo Oral	Rabbit	2000 mg/kg	-
	LDLo Oral	Rabbit	2100 mg/kg	-
	2			

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Solvent	Eyes - Mild irritant	Mammal - species unspecified	-	12.5 Percent	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
Surfactant.	Eyes - Moderate irritant	Rabbit	-	24 hours 100 uL	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 uL	-
Surfactant.	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
Amine	Eyes - Mild irritant	Rabbit	-	10 milligrams	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Human	-	72 hours 15	-

				milligrams	
				Intermittent	
	Skin - Severe irritant	Mouse	_	50 Percent	-
	Skin - Mild irritant	Rabbit	_	24 hours 560	-
		Rabbit		milligrams	-
Glycol Ether	Eyes - Mild irritant	Rabbit	_	500	_
	Lyes - who initiant	Rabbit	-	milligrams	-
Organic acid	Skin - Mild irritant	Rabbit		0.5 Grams	
			-		-
Amine	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
				ug	
	Eyes - Severe irritant	Rabbit	-	970 ug	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Moderate irritant	Rabbit	-	485 mg	-
Surfactant.	Eyes - Moderate irritant	Rabbit	-	100	-
	,			milligrams	
	Eyes - Severe irritant	Rabbit	-	24 hours 100	-
				microliters	
Antioxidant.	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
		T GODIC		milligrams	
	Skin - Mild irritant	Human		48 hours 500	
			-		-
		DULI		milligrams	
	Skin - Moderate irritant	Rabbit	-	48 hours 500	-
				milligrams	

Sensitization

Not available.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Solvent	-	Subject: Bacteria	Positive

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Amine	-	3	-
Antioxidant.	-	3	-

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Glycol Ether	-	Equivocal	-	Mouse - Male	Inhalation: 1000 ppm	7 hours per day

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name		Route of exposure	Target organs
Organic acid	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely		Dermal contact. Eye contact. Inhalation. Ingestion.
routes of exposure	-	
Potential acute health effects	2	
Eye contact	:	Causes serious eye damage.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	Causes severe burns. May cause an allergic skin reaction.
Ingestion	:	Harmful if swallowed. Corrosive to the digestive tract. Causes burns.
Symptome related to the phy		and chamical and toxical an exact aviation
		cal, chemical and toxicological characteristics
Eye contact	•	Adverse symptoms may include the following: pain watering redness
Inhalation	:	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	:	Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effect	ts	and also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>S</u>
Not available.		_
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.

- Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.
- **Reproductive toxicity** : May damage fertility or the unborn child.

Numerical measures of toxicity Acute toxicity estimates

ATE value	
870.04 mg/kg 8311.88 mg/kg	
	870.04 mg/kg

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
Amine	Acute LC50 >1000 ppm	Fish	96 hours
Surfactant.	Acute LC50 1 to 10 mg/l	Fish	96 hours
Organic acid	Acute EC50 38900 mg/l	Daphnia	24 hours
-	Acute LC50 >5000 mg/l	Fish	48 hours
Amine	Acute EC50 609.98 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 11800000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 16000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Amine	Acute LC50 2520 mg/l	Fish	96 hours
	Acute LC50 210 mg/I Fresh water	Fish - Carassius auratus	96 hours
Surfactant.	Acute LC50 2.6 μg/l Fresh water	Crustaceans - Thamnocephalus platyurus - Nauplii	48 hours
	Acute LC50 2350 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 650 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Surfactant.	Acute EC50 <1 mg/l	Daphnia	48 hours
	Acute IC50 <1 mg/l	Algae	72 hours
	Acute LC50 <1 mg/l	Fish	96 hours
Antioxidant.	Acute EC50 1.44 mg/l	Daphnia	48 hours
	Acute LC50 2.5 mg/l	Fish	48 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Surfactant.	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Solvent	2.6	-	low
Amine	-2.08	-	low
Organic acid	-1.1	-	low
Rosin/Resin	1.9 to 7.7	-	high
Amine	-1	<3.9	low
Organic acid	-0.29	-	low
Amine	-0.96	0.11	low
Antioxidant.	5.1	330 to 1800	high

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 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	UN	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Packing group	-	-	-	-	-	-
Environmental hazards	No.	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.

Section 15. Regulatory information

U.S. Federal regulations	: TSCA 5(a)2 proposed significant new use rule (SNUR): No products were found.
	TSCA 5(a)2 final significant new use rules: Glycol Ether
	TSCA 12(b) one-time export: Glycol Ether
	TSCA 12(b) annual export notification: No products were found.
United States inventory (TSCA 8b)	: All components are listed or exempted.
<u>SARA 302/304</u>	
Composition/information	on ingredients
No products were found.	

SARA 311/312

Section 15. Regulatory information

Classification : ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 1 TOXIC TO REPRODUCTION - Category 1B HNOC - Corrosive to digestive tract California Prop. 65 ▲ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov. Canada Canada Canada inventory : All components are listed or exempted. International regulations Inventory list Australia : Not determined. China : All components are listed or exempted. Japan : All components are listed or exempted. New Zealand : Not determined. Philippines : Not determined. Republic of Korea : All components are listed or exempted. Taiwan : All components are listed or exempted.	_	-
WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov. Canada Canada inventory : All components are listed or exempted. International regulations Inventory list Australia : Not determined. China : All components are listed or exempted. Japan : All components are listed or exempted. New Zealand : Not determined. Philippines : Not determined. Republic of Korea : All components are listed or exempted.	Classification	SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION - Category 1B
Canada Canada inventory: All components are listed or exempted.International regulationsInventory listAustralia: Not determined.China: All components are listed or exempted.Japan: All components are listed or exempted.New Zealand: Not determined.Philippines: Not determined.Republic of Korea: All components are listed or exempted.	<u>California Prop. 65</u>	
Canada inventory: All components are listed or exempted.International regulationsInventory listAustralia: Not determined.China: All components are listed or exempted.Japan: All components are listed or exempted.New Zealand: Not determined.Philippines: Not determined.Republic of Korea: All components are listed or exempted.	MARNING: Cance	r and Reproductive Harm - www.P65Warnings.ca.gov.
International regulations Inventory list Australia : Not determined. China : All components are listed or exempted. Japan : All components are listed or exempted. New Zealand : Not determined. Philippines : Not determined. Republic of Korea : All components are listed or exempted.	<u>Canada</u>	
Inventory listAustralia: Not determined.China: All components are listed or exempted.Japan: All components are listed or exempted.New Zealand: Not determined.Philippines: Not determined.Republic of Korea: All components are listed or exempted.	Canada inventory	: All components are listed or exempted.
Australia: Not determined.China: All components are listed or exempted.Japan: All components are listed or exempted.New Zealand: Not determined.Philippines: Not determined.Republic of Korea: All components are listed or exempted.	International regulations	
China: All components are listed or exempted.Japan: All components are listed or exempted.New Zealand: Not determined.Philippines: Not determined.Republic of Korea: All components are listed or exempted.	Inventory list	
Japan: All components are listed or exempted.New Zealand: Not determined.Philippines: Not determined.Republic of Korea: All components are listed or exempted.	Australia	: Not determined.
New Zealand: Not determined.Philippines: Not determined.Republic of Korea: All components are listed or exempted.	China	: All components are listed or exempted.
Philippines : Not determined. Republic of Korea : All components are listed or exempted.	Japan	: All components are listed or exempted.
Republic of Korea : All components are listed or exempted.	New Zealand	: Not determined.
	Philippines	: Not determined.
Taiwan : All components are listed or exempted.	Republic of Korea	: All components are listed or exempted.
	Taiwan	: All components are listed or exempted.

Section 16. Other information

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



Procedure used to derive the classification

Justification
Calculation method

 History

 Date of issue/Date of

 revision

 Date of previous issue

 :
 3/11/2023

 Version
 :
 2.09

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Section 16. Other information

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.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named 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.

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