

AkzoNobel

SAFETY DATA SHEET

JW197QF 33-9675 INT 600 BRITEBOND SOFT NICKEL

Section 1. Identification **GHS** product identifier : JW197QF 33-9675 INT 600 BRITEBOND SOFT NICKEL SDS code : 8133618 JW197QF/25KG Relevant identified uses of the substance or mixture and uses advised against Identified uses Industrial use Uses advised against Consumer use Product use : Electrostatic coating for use in industrial plants Supplier's details Akzo Nobel Coatings Inc. 150 Columbia Street Reading, PA 19601 USA 1-610-372-3600 **Emergency telephone** : CHEMTREC +1 (800) 424-9300 (Inside the US) number (with hours of CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls accepted) Domestic Poison Control Center Customer Service +1 (800) 854-6813 operation) Section 2. Hazards identification **OSHA/HCS** status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). : ACUTE TOXICITY (oral) - Category 4 **Classification of the** SERIOUS EYE DAMAGE - Category 1 substance or mixture **SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 1 CARCINOGENICITY - Category 1A** SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 **GHS** label elements Hazard pictograms 2 Signal word : Danger Date of issue/Date of revision : 7/11/2025 Version : 5

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Section 2. Hazards identification

Hazard statements	: ⊮armful if swallowed. May cause an allergic skin reaction.
	Causes serious eye damage.
	May cause genetic defects.
	May cause cancer.
	May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
Prevention	: Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. 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 or international regulations.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
	<10	2451-62-9
copper	≤5	7440-50-8
Crystalline Silica as quartz not respirable,>10µm	≤0.3	14808-60-7

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 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 if easy to do. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.



Section 4. First aid measures

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. 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 10 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	: May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.
Over-exposure signs/sympto	oms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Indication of immediate medic	al 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.

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Section 4. First aid measures

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	: Vse an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/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 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 : No action shall be taken involving any personal risk or without suitable training. For non-emergency Evacuate surrounding areas. Keep unnecessary and unprotected personnel from personnel 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 nonemergency 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 : 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.

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Section 6. Accidental release measures

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. 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. 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 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

Ingredient name		Exposure limits	
7,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione		ACGIH TLV (United S	States, 1/2023).
	, , , , ,	[1,3,5-Triglycidyl-s-tr	'iazinetrione]
		TWA: 0.05 mg/m ³ 8	hours.
copper			States, 1/2023). [copper
		dusts and mists] No	
			Cu) 8 hours. Form: Dust
		and mist	
		OSHA PEL 1989 (Uni	
			ists (as Cu)] Notes: as
		TWA: 1 mg/m³, (as 0 Dusts and Mists	Ju) 8 hours. Form:
		OSHA PEL 1989 (Uni	ted States 3/1989)
		[Copper Fume (as C	
		TWA: 0.1 mg/m ³ , (as	
		Fume	
		NIOSH REL (United S	States, 10/2020).
		Notes: Note: The RE	L and PEL also apply
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Section 8. Exposure controls/personal protection

	to other copper compounds (as Cu) except
	Copper fumes.
	TWA: 1 mg/m³, (as Cu) 10 hours. Form:
	Dusts and Mists
	OSHA PEL (United States, 5/2018).
	TWA: 1 mg/m ³ 8 hours. Form: Dusts and
	Mists
	TWA: 0.1 mg/m ³ 8 hours. Form: Fume
	ACGIH TLV (United States, 1/2023). [copper
	fume] Notes: Substances for which the
	TLV is higher than the OSHA Permissible
	Exposure Limit (PEL) and/or the NIOSH
	Recommended Exposure Limit (REL). See
	CFR 58(124) :36338-33351, June 30, 1993,
	for revised OSHA PEL. Adopted Values
	enclosed are those for which changes are
	proposed. Consult the Notice of Intended
	Changes for current proposal. See Notice
	of Intended changes.
	TWA: 0.2 mg/m ³ 8 hours. Form: Fume
Crystalline Silica as quartz not respirable,>10µm	OSHA PEL Z3 (United States, 6/2016).
- , ,	TWA: 250 mppcf / (%SiO2+5) 8 hours. Form:
	Respirable
	TWA: 10 mg/m ³ / (%SiO2+2) 8 hours. Form:
	Respirable
	OSHA PEL (United States, 5/2018).
	TWA: 50 µg/m ³ 8 hours. Form: Respirable
	dust
	OSHA PEL 1989 (United States, 3/1989).
	Notes: as quartz
	TWA: 0.1 mg/m³, (as quartz) 8 hours. Form:
	Respirable dust
	ACGIH TLV (United States, 3/2018). Notes:
	Respirable fraction; see Appendix C,
	paragraph C.
	TWA: 0.025 mg/m ³ 8 hours. Form:
	Respirable fraction
	NIOSH REL (United States, 10/2016).
	Notes: See Appendix A - NIOSH Potential
	Occupational Carcinogen
	TWA: 0.05 mg/m ³ 10 hours. Form: respirable
	dust

Appropriate engineering controls	: Fuser 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

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Section 8. Exposure controls/personal protection

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. Wear a respirator conforming to EN140 with type A/P2 filter or better. Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/ or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

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.

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Appearance

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Physical state	: <mark>S</mark> olid.
Color	: <mark>Ø</mark> ray.
Odor	: Odorless.
Odor threshold	: Not available.
рН	: Not applicable. [DIN EN 1262]
Melting point/freezing point	: Not available.
Boiling point, initial boiling point, and boiling range	: Not applicable.
Flash point	: Not applicable.
Flammability	: Not available.
Lower and upper explosion limit	: 20 - 70 g/m3
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Section 9. Physical and chemical properties and safety characteristics

Vapor pressure	: Not available.		
Relative vapor density	: Not applicable.		
Relative density	: 1.2 to 1.9 [ISO 8130-2/-3]		
Solubility(ies)	:		
Media		Result	
<mark>¢</mark> old water		Not soluble [OECD (TG 105)]	
Partition coefficient: n- octanol/water	: Not applicable.		
Auto-ignition temperature	: 450 to 600°C (842 to 1112°F)		
Decomposition temperature	: Not available.		
Minimum ignition energy (mJ)	: 5 to 20		
Viscosity	: Kinematic (room temperature): Not applicable. [DIN EN ISO 3219] Kinematic (40°C (104°F)): Not applicable. [DIN EN ISO 3219]		
Particle characteristics			
Median particle size	: Not available.		
Percentage of particles with aerodynamic diameter ≤ 10 μm	: 0		

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.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
7,3,5-tris(oxiranylmethyl) -1,3,5-triazine-2,4,6(1H,3H, 5H)-trione	LC50 Inhalation Dusts and mists	Mouse	2000 mg/m ³	4 hours
,	LC50 Inhalation Dusts and mists	Rat	650 mg/m ³	4 hours
	LD50 Oral	Rat	188 mg/kg	-
	LD50 Oral	Rat	222 mg/kg	-
	LD50 Oral	Rat	138 mg/kg	-
copper	LD50 Intraperitoneal	Mouse	0.07 mg/kg	-
	LD50 Oral	Mouse	>5000 mg/kg	-
	LD50 Oral	Mouse	413 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
√,3,5-tris(oxiranylmethyl) -1,3,5-triazine-2,4,6(1H,3H, 5H)-trione	Eyes - Severe irritant	Rabbit	-	100 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
poper Crystalline Silica as quartz not respirable,>10µm	-		Known to be a human carcinogen. Known to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
	Category 2	-	-

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health effects

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Section 11. Toxicological information

Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: 📈 specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

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

<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>6</u>
Not available.		
General	:	May cause dama

General	: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: May cause genetic defects.
Reproductive toxicity	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Product as-supplied	1554	N/A	N/A	N/A	8.6
1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H, 5H)-trione	100	N/A	N/A	N/A	0.5
copper	500	N/A	N/A	N/A	N/A

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Section 12. Ecological information

Toxicity

Acute EC50 18 Acute EC50 1.6 Acute EC50 3.1 Acute EC50 3.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 2.1 Acute LC50 0.0 Acute LC50 1.6 Acute L		Species	Exposure
Acute EC50 11 Acute EC50 1.6 Acute EC50 1.6 Acute EC50 1.6 Acute EC50 1.6 Acute EC50 1.6 Acute EC50 3.2 Acute EC50 3.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 2.1 Acute LC50 1.6 Acute LC50 3.1 Acute LC50 1.6 Acute LC50 1.6 Acute LC50 1.7 Acute LC50 1.0 Acute LC50 9.4 Chronic NOEC Chronic NOEC Chronic NOEC	µg/l Marine water	Algae - Nitzschia closterium -	72 hours
Acute EC50 1.6 Acute EC50 1.6 Acute EC50 1.6 Acute EC50 1.1 Acute EC50 1.1 Acute EC50 3.2 Acute EC50 3.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 3.1 Acute LC50 10 Acute LC50 10 Acute LC50 10 Acute LC50 10 Acute LC50 9.4 Chronic NOEC Chronic NOEC Chronic NOEC	µg/l Fresh water	Exponential growth phase Algae - Pseudokirchneriella	72 hours
Acute EC50 1.6 Acute EC50 1.6 Acute EC50 1.6 Acute EC50 1.1 Acute EC50 1.1 Acute EC50 3.2 Acute EC50 3.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 3.1 Acute EC50 3.1 Acute LC50 10 Acute LC50 10 Acute LC50 10 Acute LC50 10 Acute LC50 9.4 Chronic NOEC Chronic NOEC Chronic NOEC	00 well Freeh water	subcapitata	
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Acute EC50 1.6 Acute EC50 3.2 Acute EC50 3.2 Acute EC50 3.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 1.1 Acute LC50 1.0 Acute LC50 10 Acute LC50 10 Acute LC50 9.4 Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC	/ µg/i i resii water	dubia - Neonate	40 110013
Acute EC50 1 µ Acute EC50 3.2 Acute EC50 3.1 Acute EC50 2.1 Acute EC50 2.1 Acute EC50 2.2 Acute LC50 10 Acute LC50 10 Acute LC50 10 Acute LC50 10 Acute LC50 9.4 Chronic NOEC Chronic NOEC Chronic NOEC	δ μg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
Acute EC50 3.2 Acute EC50 3.1 Acute EC50 2.1 Acute EC50 2.5 Acute LC50 0.0 Acute LC50 3.1 Acute LC50 3.1 Acute LC50 3.7 Acute LC50 10 Acute LC50 7.5 Acute LC50 10 Acute LC50 9.4 Chronic NOEC Chronic NOEC Chronic NOEC	δ μg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
Acute EC50 3.1 Acute EC50 2.1 Acute EC50 2.5 Acute LC50 0.0 Acute LC50 3.1 Acute LC50 3.1 Acute LC50 16 Acute LC50 16 Acute LC50 7.5 Acute LC50 7.5 Acute LC50 10. Acute LC50 9.4 Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC	ug/l Fresh water	Crustaceans - Ceriodaphnia dubia - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
Acute EC50 2.1 Acute EC50 2.5 Acute LC50 0.0 Acute LC50 3.1 Acute LC50 16 Acute LC50 8.7 Acute LC50 7.5 Acute LC50 7.5 Acute LC50 10. Acute LC50 9.4 Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC	2 μg/l Fresh water	Daphnia - Daphnia galeata - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
Acute EC50 2.5 Acute LC50 0.0 Acute LC50 3.1 Acute LC50 16 Acute LC50 8.7 Acute LC50 7.5 Acute LC50 10. Acute LC50 9.4 Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC	1 μg/l Fresh water	Daphnia - Daphnia longispina - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
Acute LC50 0.0 Acute LC50 3.1 Acute LC50 16 Acute LC50 8.7 Acute LC50 7.5 Acute LC50 10. Acute LC50 9.4 Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC	1 μg/l Fresh water	Daphnia - Daphnia longispina - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
Acute LC50 3.1 Acute LC50 16 Acute LC50 8.7 Acute LC50 7.5 Acute LC50 10. Acute LC50 9.4 Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC	5 μg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
Acute LC50 16 Acute LC50 8.7 Acute LC50 7.5 Acute LC50 10. Acute LC50 9.4 Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC)72 μg/l Marine water	Crustaceans - Amphipoda - Adult	48 hours
Acute LC50 8.7 Acute LC50 7.5 Acute LC50 10. Acute LC50 9.4 Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC	µg/l Fresh water	Daphnia - Daphnia magna	48 hours
Acute LC50 7.5 Acute LC50 10. Acute LC50 9.4 Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC	µg/l Fresh water	Fish - Osteichthyes - Adult	96 hours
Acute LC50 10. Acute LC50 9.4 Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC	′µg/l Fresh water	Fish - Osteichthyes - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Acute LC50 9.4 Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC	56 μg/l Marine water	Fish - Periophthalmus waltoni -	96 hours
Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC	.3 μg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC	l μg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Chronic NOEC Chronic NOEC Chronic NOEC Chronic NOEC	3 µg/l Marine water	Algae - Nitzschia closterium - Exponential growth phase	72 hours
Chronic NOEC Chronic NOEC Chronic NOEC	2.5 µg/l Marine water	Algae - Nitzschia closterium - Exponential growth phase	72 hours
Chronic NOEC Chronic NOEC	3.2 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
Chronic NOEC Chronic NOEC	0.013 mg/l Marine water	Algae - Ulva pertusa	96 hours
	7 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
Chronic NOEC	0.02 mg/l Fresh water	Crustaceans - Cambarus bartonii - Mature	21 days
	29.4 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	21 days
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Section 12. Ecological information

•			
	Chronic NOEC 2 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 15 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 5 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	21 days
	Chronic NOEC 5 µg/l Fresh water	Daphnia - Daphnia pulex - Neonate	21 days
	Chronic NOEC 1.7 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks
	Chronic NOEC 0.8 µg/l Fresh water	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	6 weeks
	Chronic NOEC 0.8 µg/l Fresh water	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	6 weeks
	Chronic NOEC 1.2 µg/l Fresh water	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	6 weeks
	Chronic NOEC 0.8 µg/l Fresh water	Fish - Oréochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	6 weeks

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
√,3,5-tris(oxiranylmethyl) -1,3,5-triazine-2,4,6(1H,3H, 5H)-trione	-0.8	-	low

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

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.
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Section 14. Transport information

The information provided in section 14 is based on a bulk package shipment via ground transport in North America. All shippers are responsible for ensuring the proper transportation classification and package/container requirements are followed for the relevant mode of transport.

	DOT Classification	IMDG	IATA
UN number	₩N3077	UN3077	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S. (copper)	, ENVIRONMENTALLY , HAZARDOUS SUBSTANCE SOLID, N.O.S. (copper)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)
Transport hazard class(es)		9	9
Packing group	M	III	III
Environmental hazards	Yes.	Marine Pollutant(s): copper	Yes.
Additional information	on		
DOT Classification	transported by inla when transported		as hazardous materials unless regulated as a hazardous material the packagings meet the general
IMDG	 Emergency schedules F-A, S-F This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. 		
ΙΑΤΑ	 This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8. 		
Special precautions f			ort in closed containers that are g the product know what to do in the
Transport in bulk acc to IMO instruments	ording : Not available.		

Section 15. Regulatory information

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U.S. Federal regulations	: TSCA 5(a)2 final significant new use rules: No products found.
	TSCA 5(e) substance consent order: No products found.
	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	United States inventory (TSCA 8b): All components are active or exempted.
	Clean Water Act (CWA) 307: copper; Zinc powder - zinc dust (stabilized)
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed

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Section 15. Regulatory information

Clean Air Act Section 602 Class I Substances	: Not listed
Clean Air Act Section 602 Class II Substances	: Not listed
DEA List I Chemicals (Precursor Chemicals)	: Not listed
DEA List II Chemicals (Essential Chemicals)	: Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ

: Not applicable.

SARA 311/312

Classification	: ACUTE TOXICITY (oral) - Category 4
	SERIOUS EYE DAMAGE - Category 1
	SKIN SENSITIZATION - Category 1
	GERM CELL MUTAGENICITY - Category 1
	CARCINOGENICITY - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Composition/information on ingredients

Name	%	Classification
₮,3,5-tris(oxiranylmethyl)	<10	ACUTE TOXICITY (oral) - Category 3
-1,3,5-triazine-2,4,6(1H,3H,5H)-		ACUTE TOXICITY (inhalation) - Category 3
trione		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1
		GERM CELL MUTAGENICITY - Category 1B
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
copper	≤5	ACUTE TOXICITY (oral) - Category 4
Crystalline Silica as quartz not respirable,>10µm	≤0.3	CARCINOGENICITY - Category 1A

<u>SARA 313</u>

	Product name	CAS number	%
Form R - Reporting requirements	copper	7440-50-8	≤5
Supplier notification	7,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H, 3H,5H)-trione copper	2451-62-9 7440-50-8	<10 ≤5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	: The following components are listed: BARIUM SULFATE; COPPER
New York	: The following components are listed: Copper
New Jersey	 The following components are listed: BARIUM SULFATE; 1,3,5-TRIGLYCIDYL-s- TRIAZINETRIONE; COPPER
Pennsylvania <u>California Prop. 65</u>	: The following components are listed: BARIUM SULFATE; COPPER FUME

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Section 15. Regulatory information

WARNING: Cancer - www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level	Type of toxicity
Ørystalline Silica as quartz not respirable,>10μm Crystalline Silica, respirable part in whole product, <10μm	-	-	Cancer Cancer

Inventory list

<u>Intentery net</u>	
Australia	: Not determined.
Canada	: 🕅 least one component is not listed in DSL but all such components are listed in NDSL.
China	: Not determined.
Eurasian Economic Union	: Russian Federation inventory: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are active or exempted.
Viet Nam	: Not determined.

Section 16. Other information

Procedure used to derive the classification

	Classification	Justification
CUTE TOXICITY (oral) - C SERIOUS EYE DAMAGE - SKIN SENSITIZATION - Ca GERM CELL MUTAGENICI CARCINOGENICITY - Cate SPECIFIC TARGET ORGA	Category 1 tegory 1 TY - Category 1	Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method
History		
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Unique ID	:	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition co MARPOL = International Convention for the Preven	pefficient

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Section 16. Other information

as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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