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SAFETY DATA SHEET

JW197QF 33-9675 INT 600 BRITEBOND SOFT NICKEL

Section 1. Identification

Product identifier: JW197QF 33-9675 INT 600 BRITEBOND SOFT NICKELSDS code: 8133618
JW197QF/25KG

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

	Recommended use
Industrial use	
	Restrictions on use
All other uses	
Product use	: Electrostatic coating for use in industrial plants
Supplier's details	
Akzo Nobel Coatir 150 Columbia Stre Reading, PA 1960 1-610-372-3600	eet 110 Woodbine Downs Blvd.
Emergency telephone number (with hours of operation)	: CHEMTREC +1 (800) 424-9300 (Inside the US) CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls accepted) 24 hours
Section 2. Hazar	d identification
Classification of the substance or mixture	: COMBUSTIBLE DUSTS - Category 1 ACUTE TOXICITY (oral) - Category 4 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 1 CARCINOGENICITY - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: Harmful 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. May form combustible dust concentrations in air.

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Section 2. Hazard identification

Precautionary statements	
Prevention	: Øbtain 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. Do not breathe dust or mist. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should 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. Take off contaminated clothing and wash it 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	: Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

Ingredient name	% (w/w)	CAS number
7,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	≥5 - ≤10	2451-62-9
copper	≥1 - ≤5	7440-50-8
Crystalline Silica as quartz not respirable,>10µm	≥0.1 - ≤1	14808-60-7

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

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. 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. 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.

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Section 4. First-aid measures

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 effe		
Eye contact	Causes serious eye damage.	
Inhalation	Exposure to airborne concentrations above statutory or recommended exposimits may cause irritation of the nose, throat and lungs.	sure
Skin contact	May cause an allergic skin reaction.	
Ingestion	Harmful if swallowed.	
<u>Over-exposure signs/symp</u>		
Eye contact	Adverse symptoms may include the following: pain vatering edness	
Inhalation	Adverse symptoms may include the following: espiratory tract irritation coughing	
Skin contact	Adverse symptoms may include the following: pain or irritation redness plistering may occur	
Ingestion	Adverse symptoms may include the following: tomach pains	
Indication of immediate med	attention and special treatment needed, if necessary	
Notes to physician	n case of inhalation of decomposition products in a fire, symptoms may be d The exposed person may need to be kept under medical surveillance for 48	
Specific treatments	No specific treatment.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training s suspected that fumes are still present, the rescuer should wear an appropri- nask or self-contained breathing apparatus. It may be dangerous to the per- providing aid to give mouth-to-mouth resuscitation. Wash contaminated cloth horoughly with water before removing it, or wear gloves.	riate son

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical powder.
Unsuitable extinguishing media	: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
Specific hazards arising from the chemical	: May form explosible dust-air mixture if dispersed.
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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe dust. 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	: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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. Avoid creating dusty conditions and prevent wind dispersal. 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

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Precautions for safe handling	9	
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 breathe dust. Do not ingest. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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 a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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
∲ ,3,5-tris(oxiranylmethyl)-1,3	,5-triazine-2,4,6(1H,3H,5H)-trione	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.05 mg/m ³ 8 hours. CA British Columbia Provincial (Canada 3/2022). [1,3,5-Triglycidyl-s-triazinetrione Skin sensitizer. TWA: 0.05 mg/m ³ 8 hours. CA Ontario Provincial (Canada, 6/2019). [1,3,5-Triglycidyl-s-triazinetrione] TWA: 0.05 mg/m ³ 8 hours. CA Quebec Provincial (Canada, 6/2021). [Triglycidyl isocyanurate] TWAEV: 0.05 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 0.15 mg/m ³ 15 minutes. TWA: 0.05 mg/m ³ 8 hours.
copper		CA Alberta Provincial (Canada, 6/2018). [Copper] Notes: as Cu 8 hrs OEL: 1 mg/m ³ , (as Cu) 8 hours. For Dusts and Mists
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Section 8. Exposure controls/personal protection

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	8 hrs OEL: 0.2 mg/m³, (as Cu) 8 hours.
	Form: Fume
	CA British Columbia Provincial (Canada,
	3/2022). [Copper] Notes: as Cu
	TWA: 1 mg/m ³ , (as Cu) 8 hours. Form:
	Dusts and mists
	TWA: 0.2 mg/m³, (as Cu) 8 hours. Form:
	Fume
	CA Ontario Provincial (Canada, 6/2019).
	TWA: 0.2 mg/m ³ , (as Cu) 8 hours. Form:
	Fume
	TWA: 1 mg/m ³ , (as Cu) 8 hours. Form:
	dust and mists
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 0.6 mg/m³, (measured as Cu) 15
	minutes. Form: Fume
	TWA: 0.2 mg/m³, (measured as Cu) 8
	hours. Form: Fume
	STEL: 3 mg/m ³ , (measured as Cu) 15
	minutes. Form: dust and mist
	TWA: 1 mg/m³, (measured as Cu) 8 hours.
	Form: dust and mist
	CA Quebec Provincial (Canada, 6/2021).
	[Copper , dusts & mists] Notes: as Cu
	TWAEV: 1 mg/m ³ , (as Cu) 8 hours. Form:
	dusts & mists
	CA Quebec Provincial (Canada, 6/2021).
	[Copper, fume] Notes: as Cu
	TWAEV: 0.2 mg/m ³ , (as Cu) 8 hours. Form:
	fume
	04 Dritish Oskurskis Dressinsish (Osnada
Crystalline Silica as quartz not respirable,>10µm	CA British Columbia Provincial (Canada,
	6/2017).
	TWA: 0.025 mg/m ³ 8 hours. Form:
	Respirable
	CA Quebec Provincial (Canada, 1/2014).
	TWAEV: 0.1 mg/m ³ 8 hours. Form:
	Respirable dust.
	CA Ontario Provincial (Canada, 1/2018).
	TWA: 0.1 mg/m ³ 8 hours. Form: Respirable
	fraction.
	CA Alberta Provincial (Canada, 4/2009).
	8 hrs OEL: 0.025 mg/m ³ 8 hours. Form:
	Respirable particulate
	CA Saskatchewan Provincial (Canada,
	7/2013).
	TWA: 0.05 mg/m ³ 8 hours. Form:
	respirable fraction
	i ocpinalio inactioni

Appropriate engineering controls	vapor or mist, use pro controls to keep work recommended or sta	e only with adequate ventilation. If user operations generate dust, fumes, gas, oor or mist, use process enclosures, local exhaust ventilation or other engineering ntrols to keep worker exposure to airborne contaminants below any ommended or statutory limits. The engineering controls also need to keep gas, oor or dust concentrations below any lower explosive limits. Use explosion-proof ntilation equipment.		
Environmental exposure controls	they comply with the cases, fume scrubbe	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.		
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Section 8. Exposure controls/personal protection

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. 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

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

Appearance

Physical state	: Solid. [Powder.]
Color	: Metallic.
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 available.
Flash point	: Closed cup: Not applicable. [Pensky-Martens]
Flammability	: Not available.
Lower and upper explosion limit/flammability limit	: 20 - 70 g/m3
Vapor pressure	: Not available.
Relative vapor density	: Not applicable.
Relative density	: 1.2 to 1.9 [ISO 8130-2/-3]
Solubility(ies)	:

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Section 9. Physical and chemical properties

Media		Result
cold water		Not soluble [OESO (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		ematic (room temperature): Not applicable. [DIN EN ISO 3219] ematic (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	: Ø	

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	: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
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

Product/ingredient name	Result	Species	Dose	Exposure
1,3,5-tris(oxiranylmethyl) -1,3,5-triazine-2,4,6(1H,3H, 5H)-trione	LC50 Inhalation Dusts and mists	Mouse	2000 mg/m³	4 hours
	LC50 Inhalation Dusts and mists	Rat	650 mg/m³	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

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Product/ingredient name	Result	Species	Score	Exposure	Observation
1,3,5-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	IARC	NTP	ACGIH
crystalline Silica as quartz not respirable,>10μm	- 1	Known to be a human carcinogen. Known to be a human carcinogen.	- A2

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)- trione	Category 2	-	-

Aspiration hazard

Not available.

Informatio	on on the likely	:	Not available.

routes of exposure

Potential acute health effects		
Eye contact	:	

:	: Causes serious eye damage.	
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- Inhalation: Exposure to airborne concentrations above statutory or recommended exposure
limits may cause irritation of the nose, throat and lungs.Skin contact: May cause an allergic skin reaction.
 - in contact : May cause an allergic skin reaction
- Ingestion : Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms ma pain watering redness	ay include the following:	
Inhalation	: Adverse symptoms ma respiratory tract irritation coughing		
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Section 11. Toxicological information

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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 effect	ts 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	ects
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. 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/l)
P5/JW197QF/USA 33-9675 BRTBND SFT NCK/BA 1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H, 5H)-trione	1553.3 100	N/A N/A	N/A N/A	N/A N/A	8.6 0.5
copper	500	N/A	N/A	N/A	N/A

Section 12. Ecological information

<u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
copper	Acute EC50 18 µg/l Marine water	Algae - Nitzschia closterium - Exponential growth phase	72 hours
	Acute EC50 18 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 1100 µg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 1.6 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 1.6 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 1.6 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
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Section 12. Ecological information				
	Acute EC50 1 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Juvenile (Fledgling,	48 hours	
	Acute EC50 3.2 μg/l Fresh water	Hatchling, Weanling) Daphnia - Daphnia galeata - Juvenile (Fledgling, Hatchling,	48 hours	
	Acute EC50 3.1 µg/l Fresh water	Weanling) Daphnia - Daphnia longispina - Juvenile (Fledgling, Hatchling, Weanling)	48 hours	
	Acute EC50 2.1 μg/l Fresh water	Daphnia - Daphnia longispina - Juvenile (Fledgling, Hatchling, Weanling)	48 hours	
	Acute EC50 2.5 μg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours	
	Acute LC50 0.072 μg/l Marine water	Crustaceans - Amphipoda - Adult	48 hours	
	Acute LC50 3.1 µg/l Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute LC50 16 µg/l Fresh water	Fish - Osteichthyes - Adult	96 hours	
	Acute LC50 8.7 µg/l Fresh water	Fish - Osteichthyes - Juvenile	96 hours	
	Acute E000 0.7 µg/11 resit water	(Fledgling, Hatchling, Weanling)	30 110013	
	Acute LC50 7.56 µg/l Marine water	Fish - Periophthalmus waltoni - Adult	96 hours	
	Acute LC50 10.3 μg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours	
	Acute LC50 9.4 μg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours	
	Chronic NOEC 3 µg/l Marine water	Algae - Nitzschia closterium - Exponential growth phase	72 hours	
	Chronic NOEC 2.5 µg/l Marine water	Algae - Nitzschia closterium - Exponential growth phase	72 hours	
	Chronic NOEC 3.2 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours	
	Chronic NOEC 0.013 mg/l Marine water Chronic NOEC 7 mg/l Fresh water		96 hours 3 days	
	Chronic NOEC 0.02 mg/l Fresh water	Crustaceans - Cambarus bartonii - Mature	21 days	
	Chronic NOEC 29.4 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	21 days	
	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 Chronic NOEC 0.8 μg/l Fresh water	Fish - Cyprinus carpio Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	4 weeks 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 - Oreochromis niloticus - Juvenile (Fledgling, Hatchling,	6 weeks	
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Section 12. Ecological information

Weanling)

Persistence and degradability

Not available.

Bioaccumulative potential

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

<u>Mobility in soil</u>

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

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

Section 13. Disposal considerations

Disposal methods : The Disp with

: 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

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.

	TDG Classification	IMDG	IATA
UN number	UN3077	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	9
Packing group	Ш	Ш	
Environmental hazards	Yes.	Marine Pollutant(s): copper	Yes.

Additional information

Date of issue/Date of revision	: 6/6/2023	Version : 2	
Date of previous issue	: 2/6/2023	12/14	AkzoNobel

Section 14. Transport information

TDG Classification	: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark). Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.
IMDG	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 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 : Not available. to IMO instruments

Section 15. Regulatory information

Canadian lists	
Canadian NPRI	: The following components are listed: copper (and its compounds)
CEPA Toxic substances	: None of the components are listed.
Inventory list	
Canada	: At least one component is not listed.
United States	: Not determined.

Section 16. Other information

<u>History</u>	
Date of printing	: 6 June 2023
Date of issue/ Date of revision	: 6 June 2023
Date of previous issue	: 6 February 2023
Version	: 2
Unique ID	:
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals HPR = Hazardous Products Regulations IATA = International Air Transport Association IBC = Internediate 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

Procedure used to derive the classification



Section 16. Other information

Classification	Justification
COMBUSTIBLE DUSTS - Category 1	On basis of test data
ACUTE TOXICITY (oral) - Category 4	Calculation method
SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1	Calculation method Calculation method
GERM CELL MUTAGENICITY - Category 1	Calculation method
CARCINOGENICITY - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

✓ 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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