

Apollo Scientific

Part Number: **OR301298** Version No: **1.1** Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878) Chemwatch Hazard Alert Code: 3

Issue Date: **16/05/2022** Print Date: **31/07/2023** S.REACH.GBR.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

1.1. Product Identifier

Product name	-Chloro-3-iodopyridine	
Chemical Name	4-Chloro-3-iodopyridine	
Synonyms	Not Available	
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
Chemical formula	Not Available	
Other means of identification	Not Available	
CAS number	89167-34-0*	

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

Relevant identified uses	Not Available
Uses advised against	No specific uses advised against are identified.

1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	Apollo Scientific	
Address	tefield Road, Bredbury SK62QR United Kingdom	
Telephone	01614060505	
Fax	0161 406 0506	
Website	http://www.apolloscientific.co.uk/	
Email	sales@apolloscientific.co.uk	

1.4. Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification according to	
regulation (EC) No	H400 - Hazardous to the Aquatic Environment Acute Hazard Category 1, H318 - Serious Eye Damage/Eye Irritation Category 1,
1272/2008 [CLP] and	H302 - Acute Toxicity (Oral) Category 4, H315 - Skin Corrosion/Irritation Category 2
amendments [1]	

Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

2.2. Label elements



Signal word Danger

Hazard statement(s)

H400	Very toxic to aquatic life.
H318	Causes serious eye damage.
H302	Harmful if swallowed.
H315	Causes skin irritation.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.

Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P310	Immediately call a POISON CENTER/doctor/physician/first aider.		
P391	Collect spillage.		
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.		
P302+P352	IF ON SKIN: Wash with plenty of water.		
P330	Rinse mouth.		
P332+P313	If skin irritation occurs: Get medical advice/attention.		
P362+P364	Take off contaminated clothing and wash it before reuse.		

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

2.3. Other hazards

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 Composition / information on ingredients

3.1.Substances

1. CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
Not Available	100	4-Chloro- 3-iodopyridine	Not Applicable	Not Applicable	Not Available

Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L; * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties

3.2.Mixtures

See 'Information on ingredients' in section 3.1

SECTION 4 First aid measures

4.1. Description of first aid measures

Eye Contact	 If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

5.1. Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.

5.3. Advice for firefighters

Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills	 Environmental hazard - contain spillage. Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety glasses. Use dry clean up procedures and avoid generating dust. Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).

Continued...

4-Chloro-3-iodopyridine

	 Do NOT use air hoses for cleaning Place spilled material in clean, dry, sealable, labelled container.
Major Spills	 Environmental hazard - contain spillage. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment and dust respirator. Prevent spillage from entering drains, sewers or water courses. Avoid generating dust. Sweep, shovel up. Recover product wherever possible. Put residues in labelled plastic bags or other containers for disposal. If contamination of drains or waterways occurs, advise emergency services.

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Safe handling	 Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Fire and explosion protection	See section 5
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry area protected from environmental extremes. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. For major quantities: Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams). Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.

7.2. Conditions for safe storage, including any incompatibilities

Suitable container	 Lined metal can, lined metal pail/ can. Plastic pail. Polyliner drum. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed. None known • Light sensitive • Store at-20°c • Store under argon
Hazard categories in accordance with Regulation (EC) No 1272/2008	E1: Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1
Qualifying quantity (tonnes) of dangerous substances as referred to	E1 Lower- / Upper-tier requirements: 100 / 200

in Article 3(10) for the application of

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
Not Available	Not Available	Not Available

* Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

Not Applicable

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
4-Chloro-3-iodopyridine	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
4-Chloro-3-iodopyridine	Not Available		Not Available	

8.2. Exposure controls

8.2.1. Appropriate engineering controls	barrier between the worker and the hazard kers and will typically be independent of wo ty or process is done to reduce the risk. selected hazard "physically" away from the nment. Ventilation can remove or dilute an hatch the particular process and chemical of vent employee overexposure. Indled as powders or crystals; even when particular e substance in air could occur, respiratory p absorption cartridge; he right type; g "escape" velocities which, in turn, determ we the contaminant.	orker interactions to e worker and ventilation air contaminant if or contaminant in use. articulates are relatively protection should be			
		Air Speed:			
	direct spray, spray painting in shallow booths, drum filling, d discharge (active generation into zone of rapid air motion)				
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).		2.5-10 m/s (500-2000 f/min.)		
	Within each range the appropriate value depends on:				
	Lower end of the range	Upper end of the range			
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents			
	2: Contaminants of high toxicity				
	3: Intermittent, low production.				

Base of the output of the ou	Asses with side shields al goggles. [AS/NZS 1337.1, EN166 or national equivalent] lenses may pose a special hazard; soft contact lenses may absorb and concentrate in nt, describing the wearing of lenses or restrictions on use, should be created for each a review of lens absorption and adsorption for the class of chemicals in use and an ac and first-aid personnel should be trained in their removal and suitable equipment sho chemical exposure, begin eye irrigation immediately and remove contact lens as soo ved at the first signs of eye redness or irritation - lens should be removed in a clean e shed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59]. rotection below n of suitable gloves does not only depend on the material, but also on further marks of r to manufacturer. Where the chemical is a preparation of several substances, the rest alculated in advance and has therefore to be checked prior to the application.	fore the air speed at the ag source. The air velocity at the usher dusts generated 2 metres within the extraction when extraction systems are rritants. A written policy workplace or task. This should count of injury experience. uld be readily available. In the n as practicable. Lens should nvironment only after workers
generally de extraction p extraction p extraction fa distant from apparatus, r installed or8.2.2. Individual protection measures, such as personal protective equipmentImage: Comparent of Chemica P Chemica P Chemica 	creases with the square of distance from the extraction point (in simple cases). There bint should be adjusted, accordingly, after reference to distance from the contamination n, for example, should be a minimum of 4-10 m/s (800-2000 f/min) for extraction of cr the extraction point. Other mechanical considerations, producing performance deficits make it essential that theoretical air velocities are multiplied by factors of 10 or more w used.	fore the air speed at the ag source. The air velocity at the usher dusts generated 2 metres within the extraction when extraction systems are rritants. A written policy workplace or task. This should count of injury experience. uld be readily available. In the n as practicable. Lens should nvironment only after workers
measures, such as personal protective equipmentImage: solution of the solutio	al goggles. [AS/NZS 1337.1, EN166 or national equivalent] lenses may pose a special hazard; soft contact lenses may absorb and concentrate in ht, describing the wearing of lenses or restrictions on use, should be created for each a review of lens absorption and adsorption for the class of chemicals in use and an ac and first-aid personnel should be trained in their removal and suitable equipment sho chemical exposure, begin eye irrigation immediately and remove contact lens as soo ved at the first signs of eye redness or irritation - lens should be removed in a clean e shed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59]. rotection below n of suitable gloves does not only depend on the material, but also on further marks of er to manufacturer. Where the chemical is a preparation of several substances, the re- alculated in advance and has therefore to be checked prior to the application.	workplace or task. This should count of injury experience. uld be readily available. In the n as practicable. Lens should nvironment only after workers
Eye and face protection• Chemical Contact docume include a Medical event of be remo have watSkin protectionSee Hand pSkin protectionThe selection manufacture can not be of The exact b observed wit Personal hy should be wit Suitability at effequency chemical m glove thick dexterity Select glove e When prote greater than e When only according to Some glov long-term us contaminat As defined i e Fair when e Poor when	al goggles. [AS/NZS 1337.1, EN166 or national equivalent] lenses may pose a special hazard; soft contact lenses may absorb and concentrate in ht, describing the wearing of lenses or restrictions on use, should be created for each a review of lens absorption and adsorption for the class of chemicals in use and an ac and first-aid personnel should be trained in their removal and suitable equipment sho chemical exposure, begin eye irrigation immediately and remove contact lens as soo ved at the first signs of eye redness or irritation - lens should be removed in a clean e shed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59]. rotection below n of suitable gloves does not only depend on the material, but also on further marks of er to manufacturer. Where the chemical is a preparation of several substances, the re- alculated in advance and has therefore to be checked prior to the application.	workplace or task. This should count of injury experience. uld be readily available. In the n as practicable. Lens should nvironment only after workers
Hands/feet protectionThe selectionmanufacturecan not be ofThe exact bobserved willPersonal hyshould be willSuitability andfrequencychemical rightglove thickdexteritySelect gloveWhen prolinggreater thanWhen onlyaccording toSome gloveIong-term usContaminaAs defined iFair whenPoor when	n of suitable gloves does not only depend on the material, but also on further marks or or to manufacturer. Where the chemical is a preparation of several substances, the re- alculated in advance and has therefore to be checked prior to the application.	
Hands/feet protection Hands/feet protection Hands/feet protection	er to manufacturer. Where the chemical is a preparation of several substances, the re- alculated in advance and has therefore to be checked prior to the application.	
permeation should also Glove thickr manufacture Note: Deper • Thinner glo gloves are o • Thicker glo is abrasion o Gloves mus non-perfume Experience	s tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or na onged or frequently repeated contact may occur, a glove with a protection class of 5 or 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recombried contact is expected, a glove with a protection class of 3 or higher (breakthrough EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. e polymer types are less affected by movement and this should be taken into account as. ted gloves should be replaced. n ASTM F-739-96 in any application, gloves are rated as: when breakthrough time > 480 min n breakthrough time > 20 min oreakthrough time < 20 min glove material degrades applications, gloves with a thickness typically greater than 0.35 mm, are recommended emphasised that glove thickness is not necessarily a good predictor of glove resistan efficiency of the glove will be dependent on the exact composition of the glove material be based on consideration of the task requirements and knowledge of breakthrough t ess may also vary depending on the glove manufacturer, the glove type and the glov- res technical data should always be taken into account to ensure selection of the most duing on the activity being conducted, gloves of varying thickness may be required for roves (down to 0.1 mm or less) may be required where a high degree of manual dexter inly likely to give short duration protection and would normally be just for single use ap ves (up to 3 mm or more) may be required where there is a mechanical (as well as a or puncture potential c only be worn on clean hands. After using gloves, hands should be washed and dried ad moisturiser is recommended. indicates that the following polymers are suitable as glove materials for protection again ive particles are not present. roprene.	tective gloves and has to be ads. After using gloves, hands led. i gloves include: tional equivalent). or higher (breakthrough time mmended. time greater than 60 minutes at when considering gloves for the considering gloves for end. ce to a specific chemical, as the al. Therefore, glove selection imes. e model. Therefore, the t appropriate glove for the task. specific tasks. For example: ity is needed. However, these oplications, then disposed of. chemical) risk i.e. where there at thoroughly. Application of a

 Other protection
 No special equipment needed when handling small quantities.

 OTHERWISE:
 • Overalls.

 • Barrier cream.
 • Eyewash unit.

Respiratory protection
Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1 -
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

* - Negative pressure demand ** - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 deqC)

· Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

• The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

• Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

• Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.

• Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

 \cdot Use approved positive flow mask if significant quantities of dust becomes airborne.

· Try to avoid creating dust conditions.

8.2.3. Environmental exposure controls

See section 12

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	White to light brown			
Physical state	Divided Solid	Relative density (Water = 1)	Not Available	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available	
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available	
Melting point / freezing point (°C)	71-81	Viscosity (cSt)	Not Available	
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available	
Flash point (°C)	Not Available	Taste	Not Available	
Evaporation rate	Not Available	Explosive properties	Not Available	
Flammability	Not Available	Oxidising properties	Not Available	
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable	
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available	

Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

10.1.Reactivity	See section 7.2
10.2. Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

SECTION 11 Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis, caused by particles less than 0.5 micron penetrating and remaining in the lung.

	ΤΟΧΙCITY	IRRITATION
4-Chloro-3-iodopyridine	Not Available	Not Available
Legend:	 Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances 	

Acute Toxicity	✓	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	*	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×

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Mutagenicity X	Aspiration Hazard	×	
	Legend: X – Data either not avail ✓ – Data available to ma	able or does not fill the criteria for classification ake classification	

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
4-Chloro-3-iodopyridine	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

12.4. Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

12.5. Results of PBT and vPvB assessment

	Р	В	т
Relevant available data	Not Available	Not Available	Not Available
PBT	×	×	×
vPvB	×	×	×
PBT Criteria fulfilled?	PBT Criteria fulfilled? No		
vPvB			No

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate:

	► Reduction
	▶ Reuse
	▶ Recycling
	Disposal (if all else fails)
	This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. Shelf
	life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use,
	and recycling or reuse may not always be appropriate. In most instances the supplier of the material should be consulted.
	DO NOT allow wash water from cleaning or process equipment to enter drains.
	It may be necessary to collect all wash water for treatment before disposal.
	In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
	Where in doubt contact the responsible authority.
	Recycle wherever possible or consult manufacturer for recycling options.
	 Consult State Land Waste Management Authority for disposal.
	Bury residue in an authorised landfill.
	Recycle containers if possible, or dispose of in an authorised landfill.
Waste treatment options	Not Available
Sewage disposal options	Not Available

SECTION 14 Transport information

Labels Required

Marine Pollutant	
HAZCHEM	2Z

Land transport (ADR-RID)

14.1. UN number or ID number	3077				
14.2. UN proper shipping name	ENVIRONMENTA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.			
14.3. Transport hazard class(es)	Class	9			
	Subsidiary risk	Subsidiary risk Not Applicable			
14.4. Packing group	III				
14.5. Environmental hazard	Environmentally hazardous				
	Hazard identifica	ation (Kemler)	90		
	Classification code		M7		
14.6. Special precautions for user	Hazard Label		9		
	Special provisions		274 335 375 601		
	Limited quantity		5 kg		
	Tunnel Restriction	on Code	3 (-)		

Air transport (ICAO-IATA / DGR)

14.1. UN number	3077		
14.2. UN proper shipping name	Environmentally hazardous substance, solid, n.o.s.		
14.3. Transport hazard class(es)	ICAO/IATA Class	9 Not Applicable	
	ERG Code	9L	
14.4. Packing group	Ш		

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	14.5. Environmental hazard	Environmentally hazardous		
		Special provisions	A97 A158 A179 A197 A215	
	14.6. Special precautions for user	Cargo Only Packing Instructions	956	_
		Cargo Only Maximum Qty / Pack	400 kg	
		Passenger and Cargo Packing Instructions	956	
		Passenger and Cargo Maximum Qty / Pack	400 kg	
		Passenger and Cargo Limited Quantity Packing Instructions	Y956	
		Passenger and Cargo Limited Maximum Qty / Pack	30 kg G	

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	3077		
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.		
14.3. Transport hazard class(es)	IMDG Class 9 IMDG Subrisk Not Applicable		
14.4. Packing group	III		
14.5. Environmental hazard	Marine Pollutant		
	EMS Number	F-A, S-F	
14.6. Special precautions for user	Special provisions	274 335 966 967 969	
	Limited Quantities	5 kg	

Inland waterways transport (ADN)

14.1. UN number	3077		
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.		
14.3. Transport hazard class(es)	9 Not Applicable		
14.4. Packing group	III		
14.5. Environmental hazard	Environmentally hazardous		
	Classification code	M7	
	Special provisions	274; 335; 375; 601	
14.6. Special precautions for user	Limited quantity	5 kg	
	Equipment required	PP, A***	
	Fire cones number	0	

14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group

14.7.3. Transport in bulk in accordance with the IGC Code

Product name Ship Type

SECTION 15 Regulatory information

15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

Information according to 2012/18/EU (Seveso III):

Seveso Category	E1
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15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

ECHA SUMMARY

Not Applicable

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Not Available	
Canada - DSL	Not Available	
Canada - NDSL	Not Available	
China - IECSC	Not Available	
Europe - EINEC / ELINCS / NLP	Not Available	
Japan - ENCS	Not Available	
Korea - KECI	Not Available	
New Zealand - NZIoC	Not Available	
Philippines - PICCS	Not Available	
USA - TSCA	Not Available	
Taiwan - TCSI	Not Available	
Mexico - INSQ	Not Available	
Vietnam - NCI	Not Available	
Russia - FBEPH	Not Available	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	16/05/2022
Initial Date	16/05/2022

Full text Risk and Hazard codes

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

- EN 166 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices

Definitions and abbreviations

- PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value **BCF: BioConcentration Factors BEI: Biological Exposure Index** AIIC: Australian Inventory of Industrial Chemicals **DSL:** Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances Powered by AuthorITe, from Chemwatch.