

Dichloramine B Apollo Scientific

Part Number: **OR72615** Version No: **1.1** Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878) Chemwatch Hazard Alert Code:

Issue Date: **15/08/2023**Print Date: **15/08/2023**S.REACH.GB-NIR.EN

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

1.1. Product Identifier

The found is a second of the first of the fi				
Product name Dichloramine B				
Chemical Name	-Dichlorobenzenesulfonamide			
Synonyms	Not Available			
Proper shipping name	OXIDIZING SOLID, N.O.S.			
Chemical formula	C6H5Cl2NO2S			
Other means of identification	Not Available			
CAS number	473-29-0*			
EC number	207-461-9			

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	Apollo Scientific Itd
Address	Whitefield Road, Bredbury SK6 2QR Northern Ireland (UK)	
Telephone	Telephone 01614060505 +44(0) 161 406 0505	
Fax 0161 406 0506 Not Available		Not Available
Website	Website http://www.apolloscientific.co.uk/ apolloscientific.co.uk/	
Email sales@apolloscientific.co.uk sales@apolloscientific.co.uk		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 1272/2008
[CLP] and amendments [1]

H271 - Oxidizing Solids Category 1, H315 - Skin Corrosion/Irritation Category 2, H319 - Serious Eye Damage/Eye Irritation Category 2, H335 - Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation)

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

2.2. Label elements

Hazard pictogram(s)



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Signal word	Danger
Hazard statement(s)	
mazaru statement(s)	
H271 May cause fire or explosion; strong oxidiser.	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
F210	Reep away non-neat, not surfaces, sparks, open names and other ignition sources. No shloking.		
P271	Use only outdoors or in a well-ventilated area.		
P220 Keep away from clothing and other combustible materials.			
P283 Wear fire resistant or flame retardant clothing.			
P261	Avoid breathing dust/fumes.		
P280	Wear protective gloves, protective clothing, eye protection and face protection.		
P264	Wash all exposed external body areas thoroughly after handling.		

Precautionary statement(s) Response

P370+P378	78 In case of fire: Use to extinguish.			
P371+P380+P375	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.			
P305+P351+P338	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P306+P360	P306+P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.			
P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.			
P337+P313	If eye irritation persists: Get medical advice/attention.			
P302+P352	IF ON SKIN: Wash with plenty of water.			
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
P332+P313	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

	recautionary statement(s) otorage			
P405 Store locked up.				
	P403+P233	Store in a well-ventilated place. Keep container tightly closed.		
	P420	Store separately.		

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

May produce discomfort of the respiratory system and skin*.

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	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
4.REACH No					

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

If this product comes in contact with the eyes:

Eye Contact

- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- ▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.

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	Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. 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

FOR SMALL FIRE:

- ▶ USE FLOODING QUANTITIES OF WATER.
- ▶ DO NOT use dry chemical, CO2, foam or halogenated-type extinguishers.

FOR LARGE FIRE

Flood fire area with water from a protected position

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid storage with reducing agents.

DO NOT mix fresh with recovered material. Collect residues and seal in labelled drums for disposal.

Wash area and prevent runoff into drains.

Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous

5.3. Advice for firefighters

Fire Fighting	
Fire/Explosion Hazard	 Will not burn but increases intensity of fire. Heating may cause expansion or decomposition leading to violent rupture of containers. Heat affected containers remain hazardous. Contact with combustibles such as wood, paper, oil or finely divided metal may produce spontaneous combustion or violent decomposition. May emit irritating, poisonous or corrosive fumes.

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 c	containment and cleaning up
Minor Spills	 Clean up all spills immediately. No smoking, naked lights, ignition sources. Avoid all contact with any organic matter including fuel, solvents, sawdust, paper or cloth and other incompatible materials, as ignition may result. Avoid breathing dust or vapours and all contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with dry sand, earth, inert material or vermiculite. DO NOT use sawdust as fire may result. Scoop up solid residues and seal in labelled drums for disposal. Neutralise/decontaminate area.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Consider evacuation (or protect in place). No smoking, flames or ignition sources. Increase ventilation. Contain spill with sand, earth or other clean, inert materials. NEVER use organic absorbents such as sawdust, paper, cloth; as fire may result. Avoid any contamination by organic matter. Use spark-free and explosion-proof equipment. Collect any recoverable product into labelled containers for possible recycling.

Decontaminate equipment and launder all protective clothing before storage and re-use.

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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

For oxidisers, including peroxides

- · Avoid personal contact and inhalation of dust, mist or vapours.
- · Provide adequate ventilation.
- · Always wear protective equipment and wash off any spillage from clothing.
- · Keep material away from light, heat, flammables or combustibles.
- · Keep cool, dry and away from incompatible materials.
- · Avoid physical damage to containers.
- · DO NOT repack or return unused portions to original containers. Withdraw only sufficient amounts for immediate use.
- · Use only minimum quantity required.
- · Avoid using solutions of peroxides in volatile solvents. Solvent evaporation should be controlled to avoid dangerous concentration of the peroxide.
- · Do NOT allow oxidisers to contact iron or compounds of iron, cobalt, or copper, metal oxide salts, acids or bases.
- · Do NOT use metal spatulas to handle oxidisers
- · Do NOT use glass containers with screw cap lids or glass stoppers
- · Store peroxides at the lowest possible temperature, consistent with their solubility and freezing point
- · CAUTION: Do NOT store liquids or solutions of peroxides at a temperature below that at which the oxidiser freezes or precipitates. Peroxides, in particular, in this form are extremely shock and heat-sensitive. Refrigerated storage of peroxides must ONLY be in explosion-proof units

Safe handling

- · The hazards and consequences of fires and explosions during synthesis and use of oxidisers is widely recognised; spontaneous or induced decomposition may culminate in a variety of ways, ranging from moderate gassing to spontaneous ignition or explosion. The heat released from spontaneous decomposition of an energy-rich compound causes a rise in the surrounding temperature; the temperature will rise until thermal balance is established or until the material heats to decomposition,
- · The most effective means for minimising the consequences of an accident is to limit quantities to a practical minimum. Even gram-scale explosions can be serious. Once ignited the burning of peroxides cannot be controlled and the area should be evacuated.
- · Unless there is compelling reason to do otherwise, peroxide concentration should be limited to 10% (or less with vigorous reactants). Peroxide concentration is rarely as high as 1% in the reaction mixture of polymerisation or other free-radical reactions,
- · Oxidisers should be added slowly and cautiously to the reaction medium. This should be completed prior to heating and with good agitation.
- · Addition oxidisers to the hot monomer is extremely dangerous. A violent reaction (e.g., fire or explosion) can result from inadvertent mixing of promoters (frequently used with peroxides in polymerisation systems) with full-strength oxidisers
- · Organic peroxides are very sensitive to contamination (especially heavy-metal compounds, metal oxide salts, alkaline materials including amines, strong acids, and many varieties of dust and dirt). This can initiate rapid, uncontrolled decomposition of peroxides and possible generation of intense heat, fire or explosion The consequences of accidental contamination from returning withdrawn material to the storage container can be disastrous.
- \cdot When handling NEVER smoke, eat or drink.
- · Always wash hands with soap and water after handling
- · Use only good occupational work practice.
- · Observe manufacturer's storage and handling recommendations contained within this MSDS.

Fire and explosion protection

See section 5

- Store in original containers.
- Keep containers securely sealed as supplied.
- Store in a cool, well ventilated area
- Keep dry.
- Store under cover and away from sunlight.
- Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction.
- Store away from incompatible materials and foodstuff containers

Other information

- DO NOT stack on wooden floors or pallets Protect containers from physical damage.
- Check regularly for leaks.
- Observe manufacturer's storage and handling recommendations contained within this SDS.

In addition, Goods of Class 5.1, packing group I should be:

- stored in a room or space with free vents
- ▶ stored in piles so that (i) the length of the pile does not exceed 3 metres; (ii) the height of the pile does not exceed 3 metres if the area is provided with automatic fire extinguishers or 1.2 metres if not.
- stored in a room that is equipped with an automatic fire sprinkler capable of a discharge rate of at least 10 litres per minute per square meter of floor area, where 1000 kgs or more of the material is to be stored

7.2. Conditions for safe storage, including any incompatibilities

Suitable container

▶ All inner and sole packagings for substances in Packing Group I, must be hermetically sealed.

- Inorganic peroxy compounds are potent oxidisers that pose fire or explosive hazards when in contact with ordinary combustible materials. Inorganic peroxides react with organic compounds to generate organic peroxide and hydroperoxide products that react violently with
- reducing agents.
- Inorganic oxidising agents can react with reducing agents to generate heat and products that may be gaseous (causing pressurization of closed containers). The products may themselves be capable of further reactions (such as combustion in the air)
- Organic compounds in general have some reducing power and can in principle react with compounds in this class. Actual reactivity varies greatly with the identity of the organic compound.

Storage incompatibility

- Inorganic oxidising agents can react violently with active metals, cyanides, esters, and thiocyanates.
- Peroxides, in contact with inorganic cobalt and copper compounds, iron and iron compounds, acetone, metal oxide salts and acids and bases can react with rapid, uncontrolled decomposition, leading to fires and explosions
- Inorganic reducing agents react with oxidizing agents to generate heat and products that may be flammable, combustible, or otherwise reactive. Their reactions with oxidizing agents may be violent.
- Incidents involving interaction of active oxidants and reducing agents, either by design or accident, are usually very energetic and examples of so-called redox reactions
- ► Air Sensitive

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	► Moisture sensitive ► Store under Argon
Hazard categories in accordance with Regulation (EC) No 1272/2008	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available

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
Dichloramine B	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
Dichloramine B	Not Available		Not Available	

8.2. Exposure controls

Explosive reaction may result from the interaction of strong oxidisers and organics.

- Do NOT use strong oxidising agents in fume hoods designed for other purposes. Identify fume hoods used for strong oxidising agents with
- ▶ Provide exhaust ventilation and room supply air in accordance with appropriate Standard.
- ▶ Utilise local exhaust ventilation within the hood to minimise condensation of vapours inside the hood.
- Locate all utility controls outside the hood.
- Materials of construction for this type of hood and ductwork must be non-reactive, preferably acid resistant and relatively impervious. AVOID ORGANIC MATERIALS unless known to be safe. Stainless steel type 316 with welded joints is preferred. Unplasticised polyvinyl chloride or an inorganic ceramic coating such as porcelain is acceptable.
- Ease of cleanliness is paramount. Use stainless steel with accessible rounded corners and all-welded construction.
- ▶ The work surface should be water-tight with a minimum of 1 cm (1/2") dished front and sides and an integral trough at the rear to collect the
- Design washdown facilities into the hood and ductwork. Use daily or more often to thoroughly clean water-soluble oxidisers from the exhaust
- Each hood should have an individual exhaust system. Slope horizontal runs to drain. Avoid sharp turns.
- Construct the hood and ductwork to allow easy visual inspection.
- Where required use a high efficiency (greater than 80%) wet collector constructed for water-soluble oxidiser service. Locate as close to the hood as possible to minimise the accumulation of the oxidiser in the exhaust duct.
- Use only a metallic fan protected by an inorganic coating (preferably acid-resistant), or an air ejector.
- Lubricate the fan with a fluorocarbon type grease.
- Locate the fan outside the building.
- The exhaust discharge must terminate out-of-doors preferably using a vertical discharge cap which extends well above the roof eddy zone. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

Type of Determinant:	Air Speed:
solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50-100 f/min.)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)
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.)

8.2.1. Appropriate engineering controls

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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	2: Contaminants of low toxicity or of nuisance value only.
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

8.2.2. Individual protection measures, such as personal protective equipment











Eye and face protection

► Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]

▶ Full face shield may be required for supplementary but never for primary protection of eyes.

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

Skin protection

See Hand protection below

Hands/feet protection

- Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber
- ► DO NOT wear cotton or cotton-backed gloves.
- ► DO NOT wear leather gloves.
- Promptly hose all spills off leather shoes or boots or ensure that such footwear is protected with PVC over-shoes.

Body protection

See Other protection below

▶ Overalls

- PVC Apron.
- PVC protective suit may be required if exposure severe.
- Eyewash uni
- Ensure there is ready access to a safety shower.

Other protection

- Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity.
- ▶ For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).
- Non sparking safety or conductive footwear should be considered. Conductive footwear describes a boot or shoe with a sole made from a conductive compound chemically bound to the bottom components, for permanent control to electrically ground the foot an shall dissipate static electricity from the body to reduce the possibility of ignition of volatile compounds. Electrical resistance must range between 0 to 500,000 ohms. Conductive shoes should be stored in lockers close to the room in which they are worn. Personnel who have been issued conductive footwear should not wear them from their place of work to their homes and return.

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 degC)

8.2.3. Environmental exposure controls

See section 12

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and chemical properties				
Appearance	Not Available			
Physical state	Solid	Relative density (Water = 1)	Not Available	

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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)	74	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 under normal handling conditions. Prolonged exposure to heat. 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

11.1. Information on nazard cia	isses as defined in Regulation (EC) No 12/2/2008		
Inhaled	There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.		
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	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons.		
Eye	This material can cause eye irritation and damage in some persons.		
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.		
	тохісіту	IRRITATION	
Dichloramine B	Not Available	Not Available	

B'allananta a B	TOXICITY	IRRITATION	
Dichloramine B	Not Available	Not Available	
Legend:	Nalue 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		

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

Legend:

★ - Data either not available or does not fill the criteria for classification

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Data available to make 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
Dichloramine B	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 8. Vendor Data 9.				

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	X	×	×	
vPvB	×	×	×	
PBT Criteria fulfilled?				
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	For small quantities of oxidising agent: Cautiously acidify a 3% solution to pH 2 with sulfuric acid. Gradually add a 50% excess of sodium bisulfite solution with stirring. Add a further 10% sodium bisulfite. If no further reaction occurs (as indicated by a rise in temperature) cautiously add more acid.
Waste treatment options	Not Available
Sewage disposal options	Not Available

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SECTION 14 Transport information

Labels Required



NO 1Y

Marine Pollutant	l
HAZCHEM	l

Land transport (ADR-RID)						
14.1. UN number or ID number	1479					
14.2. UN proper shipping name	OXIDIZING SOLID,	N.O.S.				
14.3. Transport hazard	Class	5.1				
class(es)	Subsidiary risk	Not Applicab	le			
14.4. Packing group	1					
14.5. Environmental hazard	Not Applicable					
	Hazard identification	on (Kemler)	Not Applicable			
	Classification code	9	O2			
14.6. Special precautions for	Hazard Label		5.1			
user	Special provisions		274			
	Limited quantity		0			
	Tunnel Restriction	Code	1 (E)			

Air transport (ICAO-IATA / DGR)

14.1. UN number	1479			
14.2. UN proper shipping name	Oxidizing solid, n.o.s. *			
440 7	ICAO/IATA Class 5.1			
14.3. Transport hazard class(es)	ICAO / IATA Subrisk Not Applicable			
	ERG Code	5L		
14.4. Packing group	T			
14.5. Environmental hazard	Not Applicable			
	Special provisions		A3 A803	
	Cargo Only Packing Ir	561		
	Cargo Only Maximum	15 kg		
	Passenger and Cargo Packing Instructions		557	
	Passenger and Cargo	1 kg		
	Passenger and Cargo	Forbidden		
	Passenger and Cargo Limited Maximum Qty / Pack		Forbidden	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions 557 Passenger and Cargo Maximum Qty / Pack 1 kg Passenger and Cargo Limited Quantity Packing Instructions Forbidden			

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1479		
14.2. UN proper shipping name	OXIDIZING SOLID, N.O.S.		
14.3. Transport hazard class(es)	IMDG Class 5.1 IMDG Subrisk Not Applicable		
14.4. Packing group	I		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	EMS Number F-A, S-Q Special provisions 274 900 Limited Quantities 0		

Inland waterways transport (ADN)

14.1. UN number	1479

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Dichloramine B

14.2. UN proper shipping name	OXIDIZING SOLID, N.O.S	S.
14.3. Transport hazard class(es)	5.1 Not Applicable	
14.4. Packing group	T	
14.5. Environmental hazard	Not Applicable	
14.6. Special precautions for user		O2 274
	Limited quantity	0
	Equipment required	PP
	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
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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 Not Available

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	15/08/2023
Initial Date	15/08/2023

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

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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:

Dichloramine B

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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

olacomoation and procedure t	rassingulari and procedure asea to derive the diassingulari for mixtures according to regulation (EG) 12122000 [OLI]	
Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure	
Oxidizing Solids Category 1, H271	Expert judgement	
Skin Corrosion/Irritation Category 2, H315	Expert judgement	
Serious Eye Damage/Eye Irritation Category 2, H319	Expert judgement	
Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3 , H335	Expert judgement	

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