

# Carbamylcholine Chloride Apollo Scientific

Part Number: **OR72791** Version No: **1.1** Safety Data Sheet Chemwatch Hazard Alert Code: 4

Issue Date: **14/09/2023** Print Date: **14/09/2023** S.GHS.GB-NIR.EN

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

#### **Product Identifier**

Product name	Carbamylcholine Chloride
Chemical Name	carbachol
Synonyms	Not Available
Proper shipping name	TOXIC SOLID, ORGANIC, N.O.S.
Chemical formula	C6H15N2O2.CI
Other means of identification	Not Available
CAS number	51-83-2*

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

Relevant identified uses N

Not Available

## Details of the manufacturer or supplier of the safety data sheet

Registered company name	Apollo Scientific	Apollo Scientific Itd
Address	Whitefield Road, Bredbury SK62QR United Kingdom	Whitefield Road, Bredbury SK6 2QR Northern Ireland (UK)
Telephone	01614060505	+44(0) 161 406 0505
Fax	0161 406 0506	Not Available
Website	http://www.apolloscientific.co.uk/	apolloscientific.co.uk
Email	sales@apolloscientific.co.uk	sales@apolloscientific.co.uk

## Emergency telephone number

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

## **SECTION 2 Hazards identification**

## Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments <sup>[1]</sup>

H300 - Acute Toxicity (Oral) Category 2

ersion No: 1.1		Carbamylcholine Chloride	Print Date: <b>14/09/20</b>
Legend:	1. Classified by Chem	watch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	
abel elements			
Hazard pictogram(s)			
Signal word	Danger		
lazard statement(s)			
H300	Fatal if swallowed.		
recautionary statement( P264	1	ernal body areas thoroughly after handling.	
P204	· · · · · · · · · · · · · · · · · · ·	noke when using this product.	
1270			
recautionary statement	(s) Response		
P301+P310	IF SWALLOWED: Imm	nediately call a POISON CENTER/doctor/physician/first aider.	
P330	Rinse mouth.		
Precautionary statement	(s) Storage		
P405	Store locked up.		
	<u>.</u>		
Precautionary statement	(s) Disposal		
P501	Dispose of contents/co	ontainer to authorised hazardous or special waste collection point in accordance wit	h any local regulation.
SECTION 3 Composition	/ information on in	gredients	
Substances			
CAS No	%[weight] Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor
		on drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn fr g endocrine disrupting properties	
lixtures			
See section above for composi	tion of Substances		
SECTION 4 First aid meas	sures		
Description of first aid m	easures		

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Immediately hold eyelids apart and flush the eye continuously with running water.</li> <li>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.</li> <li>Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.</li> <li>Transport to hospital or doctor without delay.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin or hair contact occurs:</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket</li> </ul>

	mask as trained. Perform CPR if necessary. <ul> <li>Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	<ul> <li>IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY.</li> <li>For advice, contact a Poisons Information Centre or a doctor.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition.</li> <li>If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist.</li> <li>If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.</li> </ul>
	<ul> <li>Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:</li> <li>INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>NOTE: Wear a protective glove when inducing vomiting by mechanical means.</li> </ul>

#### Indication of any immediate medical attention and special treatment needed

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

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# BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.

DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

#### ADVANCED TREATMENT

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- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- + Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.
- BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

## **SECTION 5 Firefighting measures**

#### Extinguishing media

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

#### Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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## Advice for firefighters

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

#### **SECTION 6 Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	

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

## **SECTION 7 Handling and storage**

## Precautions for safe handling

Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>

## Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Lined metal can, lined metal pail/ can.</li> <li>Plastic pail.</li> <li>Polyliner drum.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> <li>For low viscosity materials</li> <li>Drums and jerricans must be of the non-removable head type.</li> <li>Where a can is to be used as an inner package, the can must have a screwed enclosure.</li> <li>For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.):</li> <li>Removable head packaging;</li> </ul>

	<ul> <li>Cans with friction closures and</li> <li>low pressure tubes and cartridges</li> <li>may be used.</li> </ul>
	- Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages *.
	- In addition, where inner packagings are glass and contain liquids of packing group I and II there must be sufficient inert absorbent to absorb any spillage *.
	- * unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.
	All inner and sole packagings for substances that have been assigned to Packaging Groups I or II on the basis of inhalation toxicity criteria, must be hermetically sealed.
Storage incompatibility	None known

## **SECTION 8 Exposure controls / personal protection**

## **Control parameters**

#### Occupational Exposure Limits (OEL)

### INGREDIENT DATA

Not Available

#### Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
Carbamylcholine Chloride	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
Carbamylcholine Chloride	Not Available		Not Available	

#### **Exposure controls**

	Engineering controls are used to remove a hazard or placengineering controls can be highly effective in protecting a provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job action for the source and/or isolation of emission source which keep that strategically "adds" and "removes" air in the work envidesigned properly. The design of a ventilation system must Employers may need to use multiple types of controls to proceed and the source of the sourc	workers and will typically be independent of worker tivity or process is done to reduce the risk. s a selected hazard "physically" away from the wo vironment. Ventilation can remove or dilute an air c st match the particular process and chemical or co prevent employee overexposure.	r interactions to rker and ventilation ontaminant if ntaminant in use. it is essential to	
	obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection.			
	An approved self contained breathing apparatus (SCBA) may be required in some situations.			
	Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying			
	"escape" velocities which, in turn, determine the "capture	velocities" of fresh circulating air required to effect	ively remove the	
	contaminant		,	
Appropriate engineering controls	contaminant.			
Appropriate engineering controls	contaminant. Type of Contaminant:		Air Speed:	
		(in still air).		
	Type of Contaminant:	ntainer filling, low speed conveyer transfers,	Air Speed: 0.25-0.5 m/s (50-100 f/min.)	
	Type of Contaminant: solvent, vapours, degreasing etc., evaporating from tank aerosols, fumes from pouring operations, intermittent co	ntainer filling, low speed conveyer transfers, d at low velocity into zone of active generation)	Air Speed: 0.25-0.5 m/s (50-100 f/min.) 0.5-1 m/s (100-20 f/min.)	
	Type of Contaminant: solvent, vapours, degreasing etc., evaporating from tank aerosols, fumes from pouring operations, intermittent co welding, spray drift, plating acid fumes, pickling (release direct spray, spray painting in shallow booths, drum filling	ntainer filling, low speed conveyer transfers, d at low velocity into zone of active generation) g, conveyer loading, crusher dusts, gas discharge	Air Speed: 0.25-0.5 m/s (50-100 f/min.) 0.5-1 m/s (100-20 f/min.) 1-2.5 m/s (200-50 f/min.) 2.5-10 m/s	
	Type of Contaminant: solvent, vapours, degreasing etc., evaporating from tank aerosols, fumes from pouring operations, intermittent co welding, spray drift, plating acid fumes, pickling (release direct spray, spray painting in shallow booths, drum filling (active generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel g	ntainer filling, low speed conveyer transfers, d at low velocity into zone of active generation) g, conveyer loading, crusher dusts, gas discharge	Air Speed: 0.25-0.5 m/s (50-100 f/min.) 0.5-1 m/s (100-20 f/min.) 1-2.5 m/s (200-50 f/min.)	
	Type of Contaminant: solvent, vapours, degreasing etc., evaporating from tank aerosols, fumes from pouring operations, intermittent co welding, spray drift, plating acid fumes, pickling (release direct spray, spray painting in shallow booths, drum filling (active generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel g into zone of very high rapid air motion).	ntainer filling, low speed conveyer transfers, d at low velocity into zone of active generation) g, conveyer loading, crusher dusts, gas discharge	Air Speed: 0.25-0.5 m/s (50-100 f/min.) 0.5-1 m/s (100-20 f/min.) 1-2.5 m/s (200-50 f/min.) 2.5-10 m/s	

	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity		
	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.			
Individual protection measures, such as personal protective equipment		$\overline{\mathbf{\Theta}}$		
Eye and face protection	document, describing the wearing of lenses or restriction include a review of lens absorption and adsorption for the Medical and first-aid personnel should be trained in the event of chemical exposure, begin eye irrigation immediate	t lenses may absorb and concentrate irritants. A written policy ons on use, should be created for each workplace or task. This should he class of chemicals in use and an account of injury experience. ir removal and suitable equipment should be readily available. In the diately and remove contact lens as soon as practicable. Lens should a lens should be removed in a clean environment only after workers		
Skin protection	See Hand protection below			
Hands/feet protection	manufacturer to manufacturer. Where the chemical is a pre- can not be calculated in advance and has therefore to be of The exact break through time for substances has to be obto observed when making a final choice. Personal hygiene is a key element of effective hand care. Of should be washed and dried thoroughly. Application of a not Suitability and durability of glove type is dependent on usage - frequency and duration of contact, - chemical resistance of glove material, - glove thickness and - dexterity Select gloves tested to a relevant standard (e.g. Europe Eff - When prolonged or frequently repeated contact may occu- greater than 240 minutes according to EN 374, AS/NZS 21 - When only brief contact is expected, a glove with a protect according to EN 374, AS/NZS 2161.10.1 or national equiva - Some glove polymer types are less affected by movemer long-term use. - Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are - Excellent when breakthrough time > 480 min - Good when breakthrough time > 20 min - Fair when breakthrough time > 20 min - Fair when breakthrough time < 20 min - Fair when breakthrough time < 20 min - Poor when glove material degrades For general applications, gloves with a thickness typically of It should be emphasised that glove thickness is not necess permeation efficiency of the glove will be dependent on the should also be based on consideration of the task requirent Glove thickness may also vary depending on the glove mat manufacturers technical data should always be taken into a Note: Depending on the activity being conducted, gloves o - Thinner gloves (down to 0.1 mm or less) may be required gloves are only likely to give short duration protection and - Thicker gloves (up to 3 mm or more) may be required wh is abrasion or puncture potential	ained from the manufacturer of the protective gloves and has to be Gloves must only be worn on clean hands. After using gloves, hands on-perfumed moisturiser is recommended. ge. Important factors in the selection of gloves include: N 374, US F739, AS/NZS 2161.1 or national equivalent). Ir, a glove with a protection class of 5 or higher (breakthrough time 61.10.1 or national equivalent) is recommended. ction class of 3 or higher (breakthrough time greater than 60 minutes alent) is recommended. It and this should be taken into account when considering gloves for e rated as: greater than 0.35 mm, are recommended. aarily a good predictor of glove resistance to a specific chemical, as th e exact composition of the glove material. Therefore, glove selection		

Body protection See Other protection below

Other protection	<ul> <li>Overalls.</li> <li>Eyewash unit.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> </ul>
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#### 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)

· 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)

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

 $\cdot$  Try to avoid creating dust conditions.

#### **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	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)	210	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 pH as a solution (1%) Not Available Not Available Vapour density (Air = 1) Not Available VOC g/L Not Available

## **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## **SECTION 11 Toxicological information**

## Information on toxicological effects

Inhaled	The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of dusts, or fumes, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress. Inhalation of dusts, generated by the material during the course of normal handling, may produce severe damage to the health of the individual. Relatively small amounts absorbed from the lungs may prove fatal.		
Ingestion	Accidental ingestion of the material may be seriously damaging to the health of the individual; animal experiments indicate that ingestion of less than 40 gram may be fatal.		
Skin Contact	The material is not thought to produce adverse health effects or s using animal models). Nevertheless, good hygiene practice requi be used in an occupational setting. Open cuts, abraded or irritated skin should not be exposed to this Entry into the blood-stream, through, for example, cuts, abrasion: Examine the skin prior to the use of the material and ensure that	ires that exposure be kept to a minimum and that suitable glove s material s or lesions, may produce systemic injury with harmful effects.	
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 chrousing animal models); nevertheless exposure by all routes should		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
Carbamylcholine Chloride			

Carbamylcholine Chloride	Oral (Mouse) LD50; 15 mg/kg <sup>[2]</sup>	Not Available
Legend:	1. Value obtained from Europe ECHA Registered Substances - A Unless otherwise specified data extracted from RTECS - Regist	•

Acute Toxicity	✓	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
Legend: X – Data either not available or does not fill the criteria for classification			

Data available to make classification

#### Toxicity

	Endpoint	Test Duration (hr)	Species	Value	Source
	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				

#### DO NOT discharge into sewer or waterways.

## Persistence and degradability

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

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
	No Data available for all ingredients

## Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

	Recycle wherever possible or consult manufacturer for recycling options.
Product / Packaging	Consult State Land Waste Management Authority for disposal.
disposal	Bury residue in an authorised landfill.
	Recycle containers if possible, or dispose of in an authorised landfill.

## **SECTION 14 Transport information**

#### Labels Required

	6
Marine Pollutant	NO

## Land transport (ADR-RID)

	-	
14.1. UN number or ID number	2811	
14.2. UN proper shipping name	TOXIC SOLID, ORGANIC, N.O.S	S.
14.3. Transport hazard	Class 6.1	
class(es)	Subsidiary risk Not Applicab	le
14.4. Packing group	II	
14.5. Environmental hazard	Not Applicable	
	Hazard identification (Kemler)	60
14.6. Special precautions	Classification code	T2
for user	Hazard Label	6.1

## Air transport (ICAO-IATA / DGR)

14.1. UN number	2811		
14.2. UN proper shipping name	Toxic solid, organic, n.o.s. *		
	ICAO/IATA Class	6.1	
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable	
01035(03)	ERG Code	6L	
14.4. Packing group	Ш		
14.5. Environmental hazard	Not Applicable		
	Special provisions		A3 A5
	Cargo Only Packing Instructions		676
	Cargo Only Maximum Qty / Pack		100 kg
14.6. Special precautions for user	Passenger and Cargo Packing In	structions	669
	Passenger and Cargo Maximum	Qty / Pack	25 kg
	Passenger and Cargo Limited Qu	uantity Packing Instructions	Y644
	Passenger and Cargo Limited Ma	aximum Qtv / Pack	1 kg

## Sea transport (IMDG-Code / GGVSee)

14.1. UN number	2811	
14.2. UN proper shipping name	TOXIC SOLID, ORG	ANIC, N.O.S.
14.3. Transport hazard	IMDG Class 6.	.1
class(es)	IMDG Subrisk N	lot Applicable
14.4. Packing group	II	
14.5 Environmental hazard	Not Applicable	
	EMS Number	F-A, S-A
14.6. Special precautions for user	Special provisions	274
	Limited Quantities	500 g

## Inland waterways transport (ADN)

14.1. UN number	2811		
14.2. UN proper shipping name	TOXIC SOLID, ORGAN	IC, N.O.S.	
14.3. Transport hazard class(es)	6.1 Not Applicable		
14.4. Packing group	Ш		
14.5. Environmental hazard	Not Applicable		
	Classification code	T2	
	Special provisions	274; 614; 802	
14.6. Special precautions for user	Limited quantity	500 g	
	Equipment required	PP, EP	
	Fire cones number	2	

#### 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

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#### **SECTION 15 Regulatory information**

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

#### **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	14/09/2023
Initial Date	15/09/2023

#### 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

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

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure
Acute Toxicity (Oral) Category 2, H300	Expert judgement

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