

## **Apollo Scientific**

## Part Number: OR29882

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: 02/11/2023 S.REACH.GB-NIR.EN

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

1.1. Product Identifier	
Product name	2-Chloroisonicotinoyl chloride
Chemical Name	2-Chloropyridine-4-carbonyl chloride
Synonyms	Not Available
Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Other means of identification	Not Available
CAS number	65287-34-5*

## 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	itefield 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 1272/2008 [CLP] and amendments <sup>[1]</sup>	H314 - Skin Corrosion/Irritation Category 1B, H290 - Corrosive to Metals Category 1, H318 - Serious Eye Damage/Eye Irritation Category 1, H301 - Acute Toxicity (Oral) Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

## 2.2. Label elements

Hazard pictogram(s)			
Signal word	Danger		
Hazard statement(s)			
H314	Causes severe skin burns and eye damage.		
H290	May be corrosive to metals.		

H301 Toxic if swallowed.

### Supplementary statement(s)

Not Applicable

### Precautionary statement(s) Prevention

P260	Do not breathe mist/vapours/spray.
P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P234	Keep only in original packaging.

## Precautionary statement(s) Response

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If more than 15 mins from Doctor, INDUCE VOMITING (if conscious).
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

## Precautionary statement(s) Storage

Store locked up.

### Precautionary statement(s) Disposal

P501

P405

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	2- Chloroisonicotinoyl chloride	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	<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>Immediately flush body and clothes with large amounts of water, using safety shower if available.</li> <li>Quickly remove all contaminated clothing, including footwear.</li> <li>Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.</li> <li>Transport to hospital, or doctor.</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 mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> <li>Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema.</li> <li>Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs).</li> <li>As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested.</li> <li>Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered.</li> <li>This must definitely be left to a doctor or person authorised by him/her. (ICSC13719)</li> </ul>

Ingestion	<ul> <li>For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>Urgent hospital treatment is likely to be needed.</li> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casuality can comfortably drink.</li> <li>Transport to hospital or doctor without delay.</li> </ul>

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

For acute or short term repeated exposures to strong acids:

- Airway problems may arise from laryngeal edema and inhalation exposure. Treat with 100% oxygen initially.
- Respiratory distress may require cricothyroidotomy if endotracheal intubation is contraindicated by excessive swelling
- Intravenous lines should be established immediately in all cases where there is evidence of circulatory compromise.
- Strong acids produce a coagulation necrosis characterised by formation of a coagulum (eschar) as a result of the dessicating action of the acid on proteins in specific tissues.

INGESTION:

- Immediate dilution (milk or water) within 30 minutes post ingestion is recommended.
- DO NOT attempt to neutralise the acid since exothermic reaction may extend the corrosive injury.
- Be careful to avoid further vomit since re-exposure of the mucosa to the acid is harmful. Limit fluids to one or two glasses in an adult.
- Charcoal has no place in acid management.
- Some authors suggest the use of lavage within 1 hour of ingestion.

SKIN:

• Skin lesions require copious saline irrigation. Treat chemical burns as thermal burns with non-adherent gauze and wrapping.

Deep second-degree burns may benefit from topical silver sulfadiazine.

EYE:

- Eye injuries require retraction of the eyelids to ensure thorough irrigation of the conjuctival cul-de-sacs. Irrigation should last at least 20-30 minutes. DO NOT use neutralising agents or any other additives. Several litres of saline are required.
- Cycloplegic drops, (1% cyclopentolate for short-term use or 5% homatropine for longer term use) antibiotic drops, vasoconstrictive agents or artificial tears may be indicated dependent on the severity of the injury.

Steroid eye drops should only be administered with the approval of a consulting ophthalmologist).

[Ellenhorn and Barceloux: Medical Toxicology]

#### SECTION 5 Firefighting measures

#### 5.1. Extinguishing media

#### Foam.

- Dry chemical powder.BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

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

#### 5.3. Advice for firefighters

Fire Fighting	
Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Acids may react with metals to produce hydrogen, a highly flammable and explosive gas.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>May emit acrid smoke and corrosive fumes.</li> <li>Combustion products include:</li> <li>carbon monoxide (CO)</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>

#### **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	<ul> <li>Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.</li> <li>Check regularly for spills and leaks.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	

### 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 handl	ing
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>Avoid contact with moisture.</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>
Fire and explosion protection	See section 5
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>

## 7.2. Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>DO NOT use aluminium or galvanised containers</li> <li>Check regularly for spills and leaks</li> <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> <li>Cans with friction closures and</li> <li>low pressure tubes and cartridges may be used.</li> <li>-</li> <li>Where combination packages are used, and the inner packages are of glass, porcelain or stoneware, there must be sufficient inert cushioning material in contact with inner and outer packages unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.</li> </ul>
Storage incompatibility	<ul> <li>Segregate from alkalies, oxidising agents and chemicals readily decomposed by acids, i.e. cyanides, sulfides, carbonates.</li> <li>Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form an explosive mixture with air.</li> <li>Avoid strong bases.</li> <li>Lachrymatory</li> <li>Store under argon</li> </ul>
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

See section 1.2

## SECTION 8 Exposure controls / personal protection

Ingredient	DNELs Exposure Patterr	DNELs Exposure Pattern Worker			PNECs Compartment	
Not Available	Not Available			1	lot Available	
* Values for General Populat	tion					
Occupational Exposure Li	mits (OEL)					
	mits (OEL)					
Occupational Exposure Li INGREDIENT DATA Source	mits (OEL)	Material name	TWA	STEL	Peak	Notes

## Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
2-Chloroisonicotinoyl chloride	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
2-Chloroisonicotinoyl chloride	Not Available		Not Available	

### 8.2. Exposure controls

8.2. Exposure controls					
	Engineering controls are used to remove a hazard or place can be highly effective in protecting workers and will typica The basic types of engineering controls are: Process controls which involve changing the way a job acti Enclosure and/or isolation of emission source which keeps strategically 'adds' and 'removes' air in the work environme design of a ventilation system must match the particular pri Employers may need to use multiple types of controls to pri Local exhaust ventilation usually required. If risk of overexp protection. Supplied-air type respirator may be required in s An approved self contained breathing apparatus (SCBA) m Provide adequate ventilation in warehouse or closed storage velocities which, in turn, determine the 'capture velocities' of Type of Contaminant:	Ily be independent of worker intera vity or process is done to reduce th a selected hazard 'physically' awa nt. Ventilation can remove or dilut ocess and chemical or contaminar event employee overexposure. posure exists, wear approved respi special circumstances. Correct fit i hay be required in some situations. ge area. Air contaminants generate	actions to provide this high le he risk. ay from the worker and vent e an air contaminant if desig nt in use. irator. Correct fit is essentia is essential to ensure adequ ed in the workplace possess	evel of protection. ilation that yned properly. The I to obtain adequate ate protection.	
	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 con drift, plating acid fumes, pickling (released at low velocity		ransfers, welding, spray	0.5-1 m/s (100- 200 f/min.)	
8.2.1. Appropriate engineering controls	direct spray, spray painting in shallow booths, drum filling, generation into zone of rapid air motion)	conveyer loading, crusher dusts,	gas discharge (active	1-2.5 m/s (200- 500 f/min.)	
	grinding, abrasive blasting, tumbling, high speed wheel ge very high rapid air motion).	enerated dusts (released at high in	itial velocity into zone of	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 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	y		
	Simple theory shows that air velocity falls rapidly with dista decreases with the square of distance from the extraction p adjusted, accordingly, after reference to distance from the a minimum of 1-2 m/s (200-400 f/min) for extraction of solv mechanical considerations, producing performance deficits multiplied by factors of 10 or more when extraction systems	point (in simple cases). Therefore t contaminating source. The air velo ents generated in a tank 2 meters within the extraction apparatus, m	the air speed at the extraction city at the extraction fan, for distant from the extraction p	on point should be r example, should be point. Other	
8.2.2. Individual protection measures, such as personal protective equipment					
Eye and face protection	<ul> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or nationa</li> <li>Full face shield may be required for supplementary but</li> <li>Contact lenses may pose a special hazard; soft contact describing the wearing of lenses or restrictions on use, lens absorption and adsorption for the class of chemics should be trained in their removal and suitable equipm irrigation immediately and remove contact lens as soor irritation - lens should be removed in a clean environm. Intelligence Bulletin 59].</li> </ul>	never for primary protection of eye t lenses may absorb and concentr should be created for each workp als in use and an account of injury ent should be readily available. In a s practicable. Lens should be re	ate irritants. A written policy lace or task. This should ind experience. Medical and fir the event of chemical expose emoved at the first signs of e	clude a review of st-aid personnel sure, begin eye eye redness or	
Skin protection	See Hand protection below				
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> <li>When handling corrosive liquids, wear trousers or over</li> </ul>	alls outside of boots, to avoid spills	s entering boots.		
Body protection	See Other protection below				
Other protection	<ul> <li>Overalls.</li> <li>PVC Apron.</li> <li>PVC protective suit may be required if exposure severe</li> <li>Eyewash unit.</li> <li>Ensure there is ready access to a safety shower.</li> </ul>	Э.			

## **Respiratory protection**

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

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

up to 10	1000	AB-AUS / Class1	-
up to 50	1000	-	AB-AUS / Class 1
up to 50	5000	Airline *	-
up to 100	5000	-	AB-2
up to 100	10000	-	AB-3
100+			Airline**

\* - Continuous Flow \*\* - Continuous-flow or positive pressure demand 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)

• Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.

• The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.

Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

#### 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	Not Available		
Physical state	Liquid	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)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	144	Molecular weight (g/mol)	Not Available
Flash point (°C)	>110	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
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)	1.418	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	Contact with alkaline material liberates heat
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

Inhaled	The material can cause respiratory irritation in some persons. The Corrosive acids can cause irritation of the respiratory tract, with co dizziness, headache, nausea and weakness. The material has <b>NOT</b> been classified by EC Directives or other class of corroborating animal or human evidence.	ughing, choking and mu	ucous membrane damage. There may be			
Ingestion	The material can produce chemical burns within the oral cavity and The material has <b>NOT</b> been classified by EC Directives or other cl of corroborating animal or human evidence.					
Skin Contact	Skin contact is not thought to have harmful health effects (as class following entry through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this Entry into the blood-stream, through, for example, cuts, abrasions	The material can produce chemical burns following direct contact with the skin. 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. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.				
Eye	The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating. If applied to the eyes, this material causes severe eye damage.					
Chronic	Long-term exposure to respiratory irritants may result in airways di Substance accumulation, in the human body, may occur and may exposure. Repeated or prolonged exposure to acids may result in the erosion lung, with cough, and inflammation of lung tissue often occurs.	ause some concern fo	llowing repeated or long-term occupational			
2-Chloroisonicotinoyl	TOXICITY	IRRITATION				
chloride	Not Available	Not Available				
	<ol> <li>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</li> </ol>					
Legend:			tained from manufacturer's SDS. Unless otherwise			
Legend: 2-Chloroisonicotinoyl chloride		hemical Substances r exposure to the mate which can occur after of previous airways dis cumented exposure to to severe bronchial hy ilia. RADS (or asthma) xposure to the irritating substance of irritating sult	rial ends. This may be due to a non-allergic exposure to high levels of highly irritating sease in a non-atopic individual, with sudden onset the irritant. Other criteria for diagnosis of RADS yperreactivity on methacholine challenge testing, o following an irritating inhalation is an infrequent substance. On the other hand, industrial bronchitis stance (often particles) and is completely			
2-Chloroisonicotinoyl	specified data extracted from RTECS - Register of Toxic Effect of a Asthma-like symptoms may continue for months or even years after condition known as reactive airways dysfunction syndrome (RADS compound. Main criteria for diagnosing RADS include the absence of persistent asthma-like symptoms within minutes to hours of a do include a reversible airflow pattern on lung function tests, moderat and the lack of minimal lymphocytic inflammation, without eosinop disorder with rates related to the concentration of and duration of e is a disorder that occurs as a result of exposure due to high conce	hemical Substances r exposure to the mate which can occur after of previous airways dis cumented exposure to to severe bronchial hy ilia. RADS (or asthma) xposure to the irritating substance of irritating sult	rial ends. This may be due to a non-allergic exposure to high levels of highly irritating sease in a non-atopic individual, with sudden onset the irritant. Other criteria for diagnosis of RADS yperreactivity on methacholine challenge testing, o following an irritating inhalation is an infrequent substance. On the other hand, industrial bronchitis stance (often particles) and is completely			
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2-Chloroisonicotinoyl chloride Acute Toxicity	Specified data extracted from RTECS - Register of Toxic Effect of a Asthma-like symptoms may continue for months or even years after condition known as reactive airways dysfunction syndrome (RADS compound. Main criteria for diagnosing RADS include the absence of persistent asthma-like symptoms within minutes to hours of a do include a reversible airflow pattern on lung function tests, moderatt and the lack of minimal lymphocytic inflammation, without eosinop disorder with rates related to the concentration of and duration of e is a disorder that occurs as a result of exposure due to high conce reversible after exposure ceases. The disorder is characterized by	hemical Substances r exposure to the mate which can occur after of previous airways dis cumented exposure to to severe bronchial hy iilia. RADS (or asthma) xposure to the irritating sub difficulty breathing, cou Carcinogenicity	rial ends. This may be due to a non-allergic exposure to high levels of highly irritating sease in a non-atopic individual, with sudden onset the irritant. Other criteria for diagnosis of RADS yperreactivity on methacholine challenge testing, following an irritating inhalation is an infrequent substance. On the other hand, industrial bronchitis ostance (often particles) and is completely ugh and mucus production.			
2-Chloroisonicotinoyl chloride Acute Toxicity Skin Irritation/Corrosion Serious Eye	specified data extracted from RTECS - Register of Toxic Effect of a Asthma-like symptoms may continue for months or even years after condition known as reactive airways dysfunction syndrome (RADS compound. Main criteria for diagnosing RADS include the absence of persistent asthma-like symptoms within minutes to hours of a d include a reversible airflow pattern on lung function tests, moderat and the lack of minimal lymphocytic inflammation, without eosinop disorder with rates related to the concentration of and duration of e is a disorder that occurs as a result of exposure due to high conce reversible after exposure ceases. The disorder is characterized by	hemical Substances r exposure to the mate of previous airways dis currented exposure to to severe bronchial hy illia. RADS (or asthma) xposure to the irritating utrations of irritating, cou Carcinogenicity Reproductivity	rial ends. This may be due to a non-allergic exposure to high levels of highly irritating sease in a non-atopic individual, with sudden onset the irritant. Other criteria for diagnosis of RADS /perreactivity on methacholine challenge testing, following an irritating inhalation is an infrequent substance. On the other hand, industrial bronchitis ostance (often particles) and is completely ugh and mucus production.			

11.2 Information on other hazards

## 11.2.1. Endocrine disrupting properties

Mutagenicity

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

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### 11.2.2. Other information

See Section 11.1

### **SECTION 12 Ecological information**

2-Chloroisonicotinoyl	Endpoint	Test Duration (hr)	Species	Value	Source
chloride	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Ecotox database - A	CLID Toxicity Data 2. Europe ECH quatic Toxicity Data 5. ECETOC / tration Data 8. Vendor Data			

Legend:

×

Data either not available or does not fill the criteria for classification
 Data available to make classification

Aspiration Hazard

Prevent, by any means available, spillage from entering drains or water courses. **DO NOT** discharge into sewer or waterways.

## 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
Ingredient	Rerbiaten can Where Sanilingredients	Rerelateacanable for all ingredients

#### 12.3. Bioaccumulative potential

Ingredient E
1
12.4. Mobility in soil
Ingredient

## 12.5. Results of PBT and vPvB assessment

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

#### 12.6. Endocrine disrupting properties

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

No Data available for all ingredients

### 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	<ul> <li>Recycle wherever possible.</li> <li>Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li> <li>Treat and neutralise at an approved treatment plant. Treatment should involve: Neutralisation with soda-ash or soda-lime followed by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus</li> <li>Decontaminate empty containers with 5% aqueous sodium hydroxide or soda ash, followed by water. Observe all label safeguards until containers are cleaned and destroyed.</li> </ul>
Waste treatment options	Not Available
Sewage disposal options	Not Available

## **SECTION 14 Transport information**

### Labels Required



## Land transport (ADR-RID)

14.1. UN number or ID number	3265			
14.2. UN proper shipping name	CORROSIVE LIQUID,	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.		
14.3. Transport hazard	Class	8		
class(es)	Subsidiary Hazard	Not Appl	cable	
14.4. Packing group	Ш			
14.5. Environmental hazard	Not Applicable			
	Hazard identification	(Kemler)	80	
	Classification code		C3	
14.6. Special precautions for	Hazard Label		8	
user	Special provisions		274	
	Limited quantity		5 L	
	Tunnel Restriction C	ode	Е	

### Air transport (ICAO-IATA / DGR)

14.1. UN number	3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. *

14.3. Transport hazard class(es)	ICAO/IATA Class 8			
	ICAO / IATA Subsidiary Hazard	Not Applicable		
	ERG Code	8L		
14.4. Packing group	Ш			
14.5. Environmental hazard	Not Applicable			
	Special provisions		A3 A803	
	Cargo Only Packing Instructions		856	
	Cargo Only Maximum Qty / Pack		60 L	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions		852	
	Passenger and Cargo Maximum	Qty / Pack	5 L	
	Passenger and Cargo Limited Qu	antity Packing Instructions	Y841	
	Passenger and Cargo Limited Maximum Qty / Pack		1 L	

## Sea transport (IMDG-Code / GGVSee)

3265		
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.		
IMDG Class     8       IMDG Subsidiary Hazard     Not Applicable		
III		
Not Applicable		
EMS NumberF-A, S-BSpecial provisions223 274Limited Quantities5 L		

### Inland waterways transport (ADN)

14.1. UN number	3265	3265		
14.2. UN proper shipping name	CORROSIVE LIQUID, A	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.		
14.3. Transport hazard class(es)	8 Not Applicable	8 Not Applicable		
14.4. Packing group	Ш			
14.5. Environmental hazard	Not Applicable	Not Applicable		
	Classification code	C3 274		
14.6. Special precautions for user	Limited quantity	5 L		
	Equipment required	PP, EP		
	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 acc	ordance 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 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.

#### **National Inventory Status**

Status
5

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
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- 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

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