

## **Apollo Scientific**

Part Number: **OR15519** 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: **15/05/2022** Print Date: **02/08/2023** S.REACH.GBR.EN

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

#### **1.1. Product Identifier**

| Product name                     | Chloro-4-(methylthio)pyrimidine   |  |
|----------------------------------|-----------------------------------|--|
| Chemical Name                    | 2-Chloro-4-(methylthio)pyrimidine |  |
| Synonyms                         | Not Available                     |  |
| Proper shipping name             | CORROSIVE SOLID, N.O.S.           |  |
| Chemical formula                 | Not Available                     |  |
| Other means of<br>identification | Not Available                     |  |
| CAS number                       | 49844-93-1*                       |  |

#### 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                 | Whitefield Road, Bredbury SK62QR United Kingdom |  |
| Telephone               | 4060505   |  |
| 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<br>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, H335 - Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) 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.              |
| H335 | May cause respiratory irritation.        |

#### Supplementary statement(s)

Not Applicable

#### Precautionary statement(s) Prevention

| P260 | Do not breathe dust/fume.  |
|------|--|
| P264 | Wash all exposed external body areas thoroughly after handling.                  |
| P271 | Use only outdoors or in a well-ventilated area.                                  |
| P280 | Wear protective gloves, protective clothing, eye protection and face protection. |
| P234 | Keep only in original packaging.   |

#### Precautionary statement(s) Response

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

### Precautionary statement(s) Storage

| P405      | Store locked up.   |
|-----------|--|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

### Precautionary statement(s) Disposal

| P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any l | ocal 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<br>2.EC No<br>3.Index No<br>4.REACH No | %[weight] | Name                                  | Classification according to<br>regulation (EC) No 1272/2008 [CLP]<br>and amendments | SCL /<br>M-Factor | Nanoform Particle<br>Characteristics |
|--|-----------|---------------------------------------|---|-------------------|--------------------------------------|
| Not Available                                    | 100       | 2-Chloro-<br>4-(methylthio)pyrimidine | Not Applicable  | Not<br>Applicable | Not Available                        |

Legend: 1. Classified by Chernwatch; 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**

| 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.</li> <li>(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 casualty 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 corrosives:

# 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.
- Where eyes have been exposed, flush immediately with water and continue to irrigate with normal saline during transport to hospital.
- 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.
- ▶ Skin burns should be covered with dry, sterile bandages, following decontamination.
- DO NOT attempt neutralisation as exothermic reaction may occur.

#### ADVANCED TREATMENT

- 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.

### EMERGENCY DEPARTMENT

- Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime.
- Positive end-expiratory pressure (PEEP)-assisted ventilation may be required for acute parenchymal injury or adult respiratory distress syndrome.
- Consider endoscopy to evaluate oral injury.
- Consult a toxicologist as necessary.

BRONSTEIN, A.C. and CURRANCE, P.L. EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

#### **SECTION 5 Firefighting measures**

#### 5.1. Extinguishing media

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

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

| Fire Incompatibility | None known. |
|----------------------|-------------|
|----------------------|-------------|

#### 5.3. Advice for firefighters

| Fire Fighting         |   |
|-----------------------|---|
| Fire/Explosion Hazard | <ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>May emit corrosive fumes.</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>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 |  |

#### 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

|               | Avoid all personal contact, including inhalation.      |
|---------------|--|
| Safe handling | Wear protective clothing when risk of exposure occurs. |

|                                  | <ul> <li>Use in a well-ventilated area.</li> <li>Avoid contact with moisture.</li> </ul>   |
|----------------------------------|--|
|                                  | <ul> <li>Avoid contact with incompatible materials.</li> </ul>   |
|                                  | When handling, DO NOT eat, drink or smoke.   |
|                                  | Keep containers securely sealed when not in use.   |
|                                  | Avoid physical damage to containers.   |
|                                  | Always wash hands with soap and water after handling.  |
|                                  | Work clothes should be laundered separately. Launder contaminated clothing before re-use.  |
|                                  | Use good occupational work practice.   |
|                                  | Observe manufacturer's storage and handling recommendations contained within this SDS.   |
|                                  | Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are<br>maintained. |
| Fire and explosion<br>protection | See section 5  |
|                                  | Store in original containers.  |
|                                  | Keep containers securely sealed.   |
| Other information                | Store in a cool, dry, well-ventilated area.  |
|                                  | Store away from incompatible materials and foodstuff containers.   |
|                                  | Protect containers against physical damage and check regularly for leaks.  |

Observe manufacturer's storage and handling recommendations contained within this SDS.

### 7.2. 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> <li>Cans with friction closures and</li> <li>low pressure tubes and cartridges may be used.</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>Dangerous goods of other classes.</li> <li>Lachrymatory</li> </ul>  |
| Hazard categories in<br>accordance with<br>Regulation (EC) No<br>1272/2008  | Not Available  |
| Qualifying quantity<br>(tonnes) of dangerous<br>substances as referred to<br>in Article 3(10) for the<br>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<br>Exposure Pattern Worker | PNECs<br>Compartment |
|---------------|----------------------------------|----------------------|
| Not Available | Not Available                    | Not Available        |

\* Values for General Population

Occupational Exposure Limits (OEL)

| Source        | Ingredient    | Material name | TWA           | STEL          | Peak          | Notes         |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Not Available |

Not Applicable

### Emergency Limits

| Ingredient                            | TEEL-1        | TEEL-2        |               | TEEL-3        |
|---------------------------------------|---------------|---------------|---------------|---------------|
| 2-Chloro-<br>4-(methylthio)pyrimidine | Not Available | Not Available |               | Not Available |
| Ingredient                            | Original IDLH |               | Revised IDLH  |               |
| 2-Chloro-<br>4-(methylthio)pyrimidine | Not Available |               | Not Available |               |

### 8.2. Exposure controls

|   | Engineering controls are used to remove a hazard or place a<br>engineering controls can be highly effective in protecting wor<br>provide this high level of protection.<br>The basic types of engineering controls are:<br>Process controls which involve changing the way a job activi<br>Enclosure and/or isolation of emission source which keeps a<br>that strategically "adds" and "removes" air in the work enviro<br>designed properly. The design of a ventilation system must n<br>Employers may need to use multiple types of controls to prev<br>Local exhaust ventilation usually required. If risk of overexpo<br>obtain adequate protection.<br>An approved self contained breathing apparatus (SCBA) ma<br>Provide adequate ventilation in warehouse or closed storage<br>"escape" velocities which, in turn, determine the "capture vel | kers and will typically be independent of work<br>ty or process is done to reduce the risk.<br>selected hazard "physically" away from the v<br>nment. Ventilation can remove or dilute an air<br>natch the particular process and chemical or of<br>vent employee overexposure.<br>sure exists, wear approved respirator. Correct<br>be required in special circumstances. Correct<br>y be required in some situations. | vorker and ventilation<br>r contaminant if<br>contaminant in use.<br>et fit is essential to<br>t fit is essential to<br>kplace possess varying |
|---|---|---|--|
|   | contaminant.  |   | -  |
|   | Type of Contaminant:  |   | Air Speed:   |
|   | solvent, vapours, degreasing etc., evaporating from tank (i   | n still air).   | 0.25-0.5 m/s<br>(50-100 f/min.)  |
| 8.2.1. Appropriate engineering controls | aerosols, fumes from pouring operations, intermittent conta<br>welding, spray drift, plating acid fumes, pickling (released a<br>generation)  |   | 0.5-1 m/s<br>(100-200 f/min.)  |
|   | direct spray, spray painting in shallow booths, drum filling, discharge (active generation into zone of rapid air motion)   | conveyer loading, crusher dusts, gas  | 1-2.5 m/s<br>(200-500 f/min.)  |
|   | grinding, abrasive blasting, tumbling, high speed wheel gen velocity into zone of very high rapid air motion).  | nerated dusts (released at high initial   | 2.5-10 m/s<br>(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  |  |
|   | Simple theory shows that air velocity falls rapidly with distance<br>generally decreases with the square of distance from the ext<br>extraction point should be adjusted, accordingly, after referent<br>extraction fan, for example, should be a minimum of 1-2 m/s<br>meters distant from the extraction point. Other mechanical co<br>apparatus, make it essential that theoretical air velocities are<br>installed or used.   | raction point (in simple cases). Therefore the<br>nee to distance from the contaminating source<br>(200-400 f/min) for extraction of solvents gen<br>onsiderations, producing performance deficits  | air speed at the<br>e. The air velocity at the<br>erated in a tank 2<br>within the extraction  |

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.<br>Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the<br>event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should<br>be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers<br>have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59]. |
|-----------------------|--|
| 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> </ul>   |
| 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>  |

### **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<br>Air-line*      | -                    | PAPR-P1<br>-           |
| 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

| Appearance                                      | Not Available |  |                |
|---|---------------|--|----------------|
|   |               |  |                |
| Physical state                                  | Solid         | Relative density (Water =<br>1)            | Not Available  |
| Odour   | Not Available | Partition coefficient<br>n-octanol / water | Not Available  |
| Odour threshold                                 | Not Available | Auto-ignition temperature<br>(°C)          | Not Available  |
| pH (as supplied)                                | Not Available | Decomposition<br>temperature (°C)          | Not Available  |
| Melting point / freezing<br>point (°C)          | 59-64         | Viscosity (cSt)                            | Not Available  |
| Initial boiling point and<br>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<br>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<br>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                    | <ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul> |
| 10.3. Possibility of<br>hazardous reactions | See section 7.2  |
| 10.4. Conditions to avoid                   | See section 7.2  |
| 10.5. Incompatible materials                | See section 7.2  |
| 10.6. Hazardous decomposition products      | See section 5.3  |

### **SECTION 11 Toxicological information**

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

| 2-Chloro-    | ΤΟΧΙCITY  | IRRITATION |  |
|--------------|---|------------|--|
| Chronic      | Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.  |            |  |
| 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.  |            |  |
| Skin Contact | The material can produce chemical burns following direct contact with the skin.<br>Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce<br>health damage following entry through wounds, lesions or abrasions.<br>Open cuts, abraded or irritated skin should not be exposed to this material<br>Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.<br>Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. |            |  |
| Ingestion    | The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion.<br>The material has <b>NOT</b> 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.  |            |  |
| Inhaled      | The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.  |            |  |

| 2-Chloro-                | TUNICITY  | IKKIIAIION    |
|--------------------------|---|---------------|
| 4-(methylthio)pyrimidine | Not Available   | Not Available |
| Legend:                  | Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SD Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |               |

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a

an on-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases.

The disorder is characterized by difficulty breathing, cough and mucus production.

| Acute Toxicity                    | × | Carcinogenicity          | × |
|-----------------------------------|---|--------------------------|---|
| Skin Irritation/Corrosion         | × | Reproductivity           | × |
| Serious Eye<br>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

# 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

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

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                      |
|------------|---------------------------------------|---------------------------------------|
|            | No Data available for all ingredients | No Data available for all ingredients |

### 12.3. Bioaccumulative potential

| Ingredient | Bioaccumulation                       |  |
|------------|---------------------------------------|--|
|            | No Data available for all ingredients |  |

#### 12.4. Mobility in soil

| Ingredient | Mobility                              |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

### 12.5. Results of PBT and vPvB assessment

|                         | Р             | В             | т             |
|-------------------------|---------------|---------------|---------------|
| Relevant available data | Not Available | Not Available | Not Available |
| PBT                     | ×             | ×             | ×             |
| vPvB                    | ×             | ×             | ×             |
| PBT Criteria fulfilled? |               |               | Νο            |
| 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<br>disposal | Treat and neutralise at an approved treatment plant. Treatment should involve. Mixing or slurrying in water: Neutralisatic |  |
|---------------------------------|--|--|
| Waste treatment options         | Not Available  |  |
| Sewage disposal options         | rage disposal options Not Available  |  |

### **SECTION 14 Transport information**

### Labels Required

| Marine Pollutant | NO |
|------------------|----|
| HAZCHEM          | 2X |

### Land transport (ADR-RID)

|                                    | -                        |                         |       |  |
|------------------------------------|--------------------------|-------------------------|-------|--|
| 14.1. UN number or ID<br>number    | 1759                     | 1759                    |       |  |
| 14.2. UN proper shipping name      | CORROSIVE SOL            | CORROSIVE SOLID, N.O.S. |       |  |
| 14.3. Transport hazard class(es)   | Class<br>Subsidiary risk | 8<br>Not Applicab       | le    |  |
| 14.4. Packing group                |                          |                         |       |  |
| 14.5. Environmental<br>hazard      | Not Applicable           |                         |       |  |
|                                    | Hazard identifica        | tion (Kemler)           | 80    |  |
|                                    | Classification co        | de                      | C10   |  |
| 14.6. Special precautions for user | Hazard Label             |                         | 8     |  |
|                                    | Special provisior        | IS                      | 274   |  |
|                                    | Limited quantity         |                         | 5 kg  |  |
|                                    | Tunnel Restriction       | on Code                 | 3 (E) |  |

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

| 14.1. UN number                  | 1759                      |                |  |  |
|----------------------------------|---------------------------|----------------|--|--|
| 14.2. UN proper shipping name    | Corrosive solid, n.o.s. * |                |  |  |
|                                  | ICAO/IATA Class           | 8              |  |  |
| 14.3. Transport hazard class(es) | ICAO / IATA Subrisk       | Not Applicable |  |  |
|                                  | ERG Code                  | 8L             |  |  |
| 14.4. Packing group              | III                       |                |  |  |
| 14.5. Environmental<br>hazard    | Not Applicable            |                |  |  |

|                                       | Special provisions  | A3 A803 |
|---------------------------------------|---|---------|
|                                       | Cargo Only Packing Instructions                           | 864     |
|                                       | Cargo Only Maximum Qty / Pack                             | 100 kg  |
| 14.6. Special precautions<br>for user | Passenger and Cargo Packing Instructions                  | 860     |
|                                       | Passenger and Cargo Maximum Qty / Pack                    | 25 kg   |
|                                       | Passenger and Cargo Limited Quantity Packing Instructions | Y845    |
|                                       | Passenger and Cargo Limited Maximum Qty / Pack            | 5 kg    |

### Sea transport (IMDG-Code / GGVSee)

| 14.1. UN number                    | 1759               | 1759                    |  |  |
|------------------------------------|--------------------|-------------------------|--|--|
| 14.2. UN proper shipping name      | CORROSIVE SOLID, N | CORROSIVE SOLID, N.O.S. |  |  |
| 14.3. Transport hazard             | IMDG Class 8       |                         |  |  |
| class(es)                          | IMDG Subrisk Not   | Applicable              |  |  |
| 14.4. Packing group                | III                |                         |  |  |
| 14.5. Environmental<br>hazard      | Not Applicable     |                         |  |  |
|                                    | EMS Number         | F-A, S-B                |  |  |
| 14.6. Special precautions for user | Special provisions | 223 274                 |  |  |
|                                    | Limited Quantities | 5 kg                    |  |  |
|                                    |                    |                         |  |  |

### Inland waterways transport (ADN)

| , ,                                | 1                   |        |  |
|------------------------------------|---------------------|--------|--|
| 14.1. UN number                    | 1759                |        |  |
| 14.2. UN proper shipping name      | CORROSIVE SOLID, N  | I.O.S. |  |
| 14.3. Transport hazard class(es)   | 8 Not Applicable    |        |  |
| 14.4. Packing group                | Ш                   |        |  |
| 14.5. Environmental<br>hazard      | Not Applicable      |        |  |
|                                    | Classification code | C10    |  |
|                                    | Special provisions  | 274    |  |
| 14.6. Special precautions for user | Limited quantity    | 5 kg   |  |
|                                    | 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 accordance with the IGC Code

| Product name       | Ship Type        |  |
|--------------------|------------------|--|
|                    |                  |  |
| SECTION 15 Regulat | tory 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<br>Non-Industrial Use | Not Available  |  |  |  |
| Canada - DSL                                       | Not Available  |  |  |  |
| Canada - NDSL                                      | Not Available  |  |  |  |
| China - IECSC                                      | Not Available  |  |  |  |
| Europe - EINEC / ELINCS /<br>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<br>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require<br>registration. |  |  |  |

#### **SECTION 16 Other information**

| Revision Date | 15/05/2022 |
|---------------|------------|
| Initial Date  | 15/05/2022 |

#### Full text Risk and Hazard codes

#### Other information

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

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

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

EN 166 Personal eye-protection

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

#### **Definitions and abbreviations**

PC - TWA: Permissible Concentration-Time Weighted Average

PC - STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit.

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

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