

# **Apollo Scientific**

Part Number: **PC6035** 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: **18/07/2023** S.REACH.GBR.EN

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

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

| Product name                     | 3,5-Difluoro-4-methoxyphenylacetonitrile |  |
|----------------------------------|--|--|
| Chemical Name                    | 2-(3,5-二氟-4-甲氧基苯基)乙腈                     |  |
| Synonyms                         | Not Available                            |  |
| Proper shipping name             | TOXIC SOLID, ORGANIC, N.O.S.             |  |
| Chemical formula                 | Not Available                            |  |
| Other means of<br>identification | Not Available                            |  |
| CAS number                       | 886498-79-9*                             |  |

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

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

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

| Registered company name | Apollo Scientific                             |  |
|-------------------------|---|--|
| Address                 | itefield Road, Bredbury SK62QR United Kingdom |  |
| Telephone               | 614060505                                     |  |
| 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>

H311 - Acute Toxicity (Dermal) Category 3, H331 - Acute Toxicity (Inhalation) Category 3, 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)

| H311 | Toxic in contact with skin. |  |
|------|-----------------------------|--|
| H331 | Toxic if inhaled.           |  |
| H301 | Toxic if swallowed.         |  |

### Supplementary statement(s)

Not Applicable

#### Precautionary statement(s) Prevention

| P264 | Wash all exposed external body areas thoroughly after handling. |  |
|------|---|--|
| P270 | P270 Do not eat, drink or smoke when using this product.        |  |
| P271 | Use only outdoors or in a well-ventilated area.                 |  |
| P280 | Wear protective gloves and protective clothing.                 |  |
| P261 | Avoid breathing dust/fumes.                                     |  |

#### Precautionary statement(s) Response

| P301+P310 | F SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider. |  |
|-----------|---|--|
| P330      | inse mouth.   |  |
| P302+P352 | IF ON SKIN: Wash with plenty of water.                                      |  |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing.  |  |
| P311      | Call a POISON CENTER/doctor/physician/first aider.                          |  |
| P361+P364 | Take off immediately all contaminated clothing and wash it before reuse.    |  |

# Precautionary statement(s) Storage

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

#### Precautionary statement(s) Disposal

| P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulati |
|--|
|--|

### 2.3. Other hazards

Inhalation and/or ingestion may produce health damage\*.

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<br>[CLP] and amendments | SCL /<br>M-Factor | Nanoform Particle<br>Characteristics |
|--|-----------|--|---|-------------------|--------------------------------------|
| Not Available                                    | 100       | 3,5-Difluoro-<br>4-methoxyphenylacetonitrile | Not Applicable  | Not<br>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>Wash out immediately with fresh 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>Seek medical attention without delay; if pain persists or recurs seek medical attention.</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 mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul> |
| Ingestion <ul> <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 airwing 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>Seek medical advice.</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

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):

#### 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

-----

- + 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

## 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         | <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> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul> |
|-----------------------|--|
| 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

#### 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>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 | <ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Stop leak if safe to do so.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Neutralise/decontaminate residue (see Section 13 for specific agent).</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul> |

#### 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

|               | 5  |
|---------------|--|
| 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> </ul> |

|                                  | <ul> <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<br>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>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</li> <li>may be used.</li> <li>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 *.</li> <li>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 *.</li> <li>* unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.</li> </ul> |
|---|---|
| Storage incompatibility   | None known  |
| Hazard categories in<br>accordance with<br>Regulation (EC) No<br>1272/2008  | H2: Acute Toxic   |
| Qualifying quantity<br>(tonnes) of dangerous<br>substances as referred to<br>in Article 3(10) for the<br>application of | H2 Lower- / Upper-tier requirements: 50 / 200   |

### 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)

### INGREDIENT DATA

| Source Ingredient Material name TWA STEL Peak Notes |
|---|
|---|

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

Not Applicable

#### Emergency Limits

| Ingredient                                   | TEEL-1        | TEEL-2        |               | TEEL-3        |
|--|---------------|---------------|---------------|---------------|
| 3,5-Difluoro-<br>4-methoxyphenylacetonitrile | Not Available | Not Available |               | Not Available |
| Ingredient                                   | Original IDLH |               | Revised IDLH  |               |
| 3,5-Difluoro-<br>4-methoxyphenylacetonitrile | 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 r<br>Employers may need to use multiple types of controls to pre-<br>Local exhaust ventilation usually required. If risk of overexpo<br>obtain adequate protection. Supplied-air type respirator may<br>ensure adequate protection. | rkers and will typically be independent of wor<br>ity or process is done to reduce the risk.<br>a selected hazard "physically" away from the<br>nment. Ventilation can remove or dilute an ai<br>natch the particular process and chemical or<br>vent employee overexposure. | ker interactions to<br>worker and ventilati<br>ir contaminant if<br>contaminant in use<br>ct fit is essential to |
|---|--|--|--|
|   | An approved self contained breathing apparatus (SCBA) ma   | v be required in some situations   |  |
|   | Provide adequate ventilation in warehouse or closed storage  |  | rkplace possess var  |
|   | "escape" velocities which, in turn, determine the "capture vel   | ocities" of fresh circulating air required to effe   | ectively remove the  |
|   | contaminant.   |  | Air Coord  |
|   | Type of Contaminant:   |  | Air Speed:   |
|   | solvent, vapours, degreasing etc., evaporating from tank (i  | 0.25-0.5 m/s<br>(50-100 f/min.)  |  |
| 8.2.1. Appropriate engineering controls | aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)  |  |  |
|   | direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)   |  | 1-2.5 m/s<br>(200-500 f/min.   |
|   | grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).   |  | 2.5-10 m/s<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: 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  | raction point (in simple cases). Therefore the<br>nee to distance from the contaminating source<br>(200-400 f/min) for extraction of solvents get  | e air speed at the<br>e. The air velocity a<br>nerated in a tank 2<br>s within the extracti                      |

8.2.2. Individual protection measures, such as personal protective equipment

Eye and face protection



Safety glasses with side shields

installed or used.

- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- 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 | The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be observed when making a final choice. Personal hyginen is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:          - frequency and duration of contact,          - devential ensistance of glove material,          - glove thickness and          - devential ensistance of glove material,          - glove thickness and          - devential repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent).          - When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.          - When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.          - Gontaminated gloves should be replaced.          - Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.          - Contaminated gloves should be replaced.          - Societarianiated gloves should be replaced.          - Societarianiated gloves with a thickness typically greater than 0.35 mm, are recommended.          - Fair when br |
| 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>  |

### **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                |

 $^{\star}$  - Negative pressure demand  $^{\star\star}$  - 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.

· Try to avoid creating dust conditions.

#### 8.2.3. Environmental exposure controls

See section 12

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

#### 9.1. Information on basic physical and chemical properties

| Appearance                                   | 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)       | Not Available | 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<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

| 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 be damaging to the health of the individual.   |               |  |
|-----------------------------|--|---------------|--|
| Ingestion                   | Accidental ingestion of the material may be damaging to the health of the individual.  |               |  |
| Skin Contact                | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.<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. |               |  |
| Eye                         | Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.   |               |  |
| Chronic                     | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.   |               |  |
|                             | 1  |               |  |
| 3,5-Difluoro-               | ΤΟΧΙΟΙΤΥ   | IRRITATION    |  |
| 4-methoxyphenylacetonitrile | Not Available  | Not Available |  |

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Legend: Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

| 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        | × |
| <br>Mutagenicity X                | Aspiration Hazar         |   |

Legend:

Data available to make classification

### 11.2 Information on other hazards

#### 11.2.1. Endocrine disrupting properties

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

#### 11.2.2. Other information

See Section 11.1

### **SECTION 12 Ecological information**

#### 12.1. Toxicity

|  | Endpoint   | Test Duration (hr) | Species       | Value            | Source           |
|--|--|--------------------|---------------|------------------|------------------|
| 3,5-Difluoro-<br>4-methoxyphenylacetonitrile | 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 |                    |               |                  |                  |

# 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? |               |               | No            |
| vPvB                    |               |               | No            |

# 12.6. Endocrine disrupting properties

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

#### 12.7. Other adverse effects

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

### **SECTION 13 Disposal considerations**

#### 13.1. Waste treatment methods

| Product / Packaging<br>disposal | <ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Bury residue in an authorised landfill.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul> |
|---------------------------------|--|
| Waste treatment options         | Not Available  |
| Sewage disposal options         | Not Available  |

# **SECTION 14 Transport information**

#### Labels Required

|                  | 6  |
|------------------|----|
| Marine Pollutant | NO |
| HAZCHEM          | 2X |

# Land transport (ADR-RID)

| 14.1. UN number or ID<br>number | 2811                         |
|---------------------------------|------------------------------|
| 14.2. UN proper shipping name   | TOXIC SOLID, ORGANIC, N.O.S. |

| 14.3. Transport hazard             | Class                          | 6.1                     |         |   |  |  |  |  |  |
|------------------------------------|--------------------------------|-------------------------|---------|---|--|--|--|--|--|
| class(es)                          | Subsidiary risk                | risk Not Applicable     |         |   |  |  |  |  |  |
| 14.4. Packing group                | Ш                              |                         |         |   |  |  |  |  |  |
| 14.5. Environmental<br>hazard      | Not Applicable                 |                         |         |   |  |  |  |  |  |
|                                    | Hazard identification (Kemler) |                         | 60      |   |  |  |  |  |  |
|                                    | Classification code            |                         | T2      |   |  |  |  |  |  |
| 14.6. Special precautions for user | Hazard Label                   |                         | 6.1     |   |  |  |  |  |  |
|                                    | Special provisions             |                         | 274 614 |   |  |  |  |  |  |
|                                    | Limited quantity               |                         | 5 kg    | _ |  |  |  |  |  |
|                                    | Tunnel Restriction             | Tunnel Restriction Code |         |   |  |  |  |  |  |

# 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 Subrisk                                       | Not Applicable             |       |  |  |  |  |
| 01035(03)                             | ERG Code  | 6L                         |       |  |  |  |  |
| 14.4. Packing group                   | Ш   |                            |       |  |  |  |  |
| 14.5. Environmental<br>hazard         | Not Applicable  |                            |       |  |  |  |  |
|                                       | Special provisions  | A3 A5                      |       |  |  |  |  |
|                                       | Cargo Only Packing Instructions                           |                            |       |  |  |  |  |
|                                       | Cargo Only Maximum Qty / Pack                             |                            |       |  |  |  |  |
| 14.6. Special precautions<br>for user | Passenger and Cargo                                       | Packing Instructions       | 670   |  |  |  |  |
| ior user                              | Passenger and Cargo Maximum Qty / Pack                    |                            |       |  |  |  |  |
|                                       | Passenger and Cargo Limited Quantity Packing Instructions |                            |       |  |  |  |  |
|                                       | Passenger and Cargo                                       | Limited Maximum Qty / Pack | 10 kg |  |  |  |  |

# Sea transport (IMDG-Code / GGVSee)

| 14.1. UN number                       | 2811               |                |
|---------------------------------------|--------------------|----------------|
| 14.2. UN proper shipping name         | TOXIC SOLID, OR    | GANIC, N.O.S.  |
| 14.3. Transport hazard                | IMDG Class         | 6.1            |
| class(es)                             | IMDG Subrisk       | Not Applicable |
| 14.4. Packing group                   | Ш                  |                |
| 14.5. Environmental<br>hazard         | Not Applicable     |                |
|                                       | EMS Number         | F-A, S-A       |
| 14.6. Special precautions<br>for user | Special provision  | s 223 274      |
|                                       | Limited Quantities | s 5 kg         |

# Inland waterways transport (ADN)

| 14.1. UN number                  | 2811                         |
|----------------------------------|------------------------------|
| 14.2. UN proper shipping name    | TOXIC SOLID, ORGANIC, N.O.S. |
| 14.3. Transport hazard class(es) | 6.1 Not Applicable           |

| 14.4. Packing group                   | Ш                   |               |
|---------------------------------------|---------------------|---------------|
| 14.5. Environmental<br>hazard         | Not Applicable      |               |
|                                       | Classification code | T2            |
|                                       | Special provisions  | 274; 614; 802 |
| 14.6. Special precautions<br>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 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):

H2

Seveso Category

#### 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 | 16/05/2022 |
|---------------|------------|
| Initial Date  | 16/05/2022 |

#### Full text Risk and Hazard codes

#### Other information

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

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

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

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### Definitions and abbreviations

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

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