

# Fluoroiodoacetonitrile Apollo Scientific

Part Number: **PC3637** Version No: **1.1** Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878) Chemwatch Hazard Alert Code: 2

Issue Date: **16/05/2022** 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                     | Fluoroiodoacetonitrile          |
|----------------------------------|---------------------------------|
| Chemical Name                    | FLUOROIODOACETONITRILE 97%      |
| Synonyms                         | Not Available                   |
| Proper shipping name             | NITRILES, LIQUID, TOXIC, N.O.S. |
| Chemical formula                 | Not Available                   |
| Other means of<br>identification | Not Available                   |
| CAS number                       | 885276-30-2*                    |

#### 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                 | hitefield 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<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>

H312 - Acute Toxicity (Dermal) Category 4, H332 - Acute Toxicity (Inhalation) Category 4, H335 - Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, H302 - Acute Toxicity (Oral) Category 4, H315 - Skin Corrosion/Irritation Category 2, H319 - Serious Eye Damage/Eye Irritation Category 2

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         | Warning |

# Hazard statement(s)

| H312 | Harmful in contact with skin.     |
|------|-----------------------------------|
| H332 | Harmful if inhaled.               |
| H335 | May cause respiratory irritation. |
| H302 | Harmful if swallowed.             |
| H315 | Causes skin irritation.           |
| H319 | Causes serious eye irritation.    |

# Supplementary statement(s)

Not Applicable

# Precautionary statement(s) Prevention

| P271 | Use only outdoors or in a well-ventilated area.                                  |
|------|--|
| P261 | Avoid breathing 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. |

#### Precautionary statement(s) Response

| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
|----------------|--|
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |
| P301+P312      | IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.  |
| P302+P352      | IF ON SKIN: Wash with plenty of water.   |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P330           | Rinse mouth.   |
| P332+P313      | If skin irritation occurs: Get medical advice/attention.   |
| P362+P364      | Take off contaminated clothing and wash it before reuse.   |

### Precautionary statement(s) Storage

| 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 local regulation.

### 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

%[weight] Name

SCL/

| Fluoroiodoacetonitrile |  |
|------------------------|--|
|------------------------|--|

| 2.EC No<br>3.Index No<br>4.REACH No |     |                        | (EC) No 1272/2008 [CLP] and amendments | M-Factor          | Characteristics |
|-------------------------------------|-----|------------------------|--|-------------------|-----------------|
| Not Available                       | 100 | Fluoroiodoacetonitrile | 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 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>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

# **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

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

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

#### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

#### 6.2. Environmental precautions

See section 12

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

| Minor Spills | <ul> <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 | <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

Safe handling

Avoid all personal contact, including inhalation.

Continued...

| Fluor  | oboio | acetor | nitrile  |
|--------|-------|--------|----------|
| 1 IUUI | olouo | accioi | intrine. |

|                                  | <ul> <li>Wear protective clothing when risk of exposure occurs.</li> </ul>   |
|----------------------------------|--|
|                                  | ► Use in a well-ventilated area.   |
|                                  | Prevent concentration in hollows and sumps.  |
|                                  | DO NOT enter confined spaces until atmosphere has been checked.  |
|                                  | DO NOT allow material to contact humans, exposed food or food utensils.  |
|                                  | Avoid contact with incompatible materials.   |
|                                  | 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  |
|                                  | maintained.  |
| Fire and explosion<br>protection | See section 5  |
|                                  | Store in original containers.  |
|                                  | Keep containers securely sealed.   |
|                                  | Store in a cool, dry, well-ventilated area.  |
| Other information                | 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.   |
| nditions for safe s              | torage, including any incompatibilities  Lined metal can, lined metal pail/ can.   |
| nditions for safe s              |  |
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|                                  | <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 contact with inner and outer packaging are glass and contain liquids of packing group 1 and II there must be sufficient inert absorbent to absorb any spillage *.</li> <li>winless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.</li> </ul> None known <ul> <li>Nitriles may polymerise in the presence of metals and some metal compounds.</li> </ul>  |
|                                  | <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, there must be sufficient inert cushioning material 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>  |
|                                  | <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 contact with inner and outer 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> None known <ul> <li>Nitriles may polymerise in the presence of metals and some metal compounds.</li> <li>They are incompatible with acids; mixing nitriles with strong oxidising acids can lead to extremely violent reactions.</li> </ul>  |
|                                  | <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, there must be sufficient inert cushioning material 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> None known <ul> <li>Nitriles may polymerise in the presence of metals and some metal compounds.</li> <li>They are incompatible with acids; mixing nitriles with strong oxidising acids can lead to extremely violent reactions.</li> <li>Nitriles are generally incompatible with other oxidising agents such as peroxides and epoxides.</li> </ul>          |
| 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 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>wuless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.</li> </ul> None known <ul> <li>Nitriles may polymerise in the presence of metals and some metal compounds.</li> <li>They are incompatible with acids; mixing nitriles with strong oxidising acids can lead to extremely violent reactions.</li> <li>Nitriles are generally incompatible with other oxidising agents such as peroxides and epoxides.</li> </ul> |
|                                  | <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, there must be sufficient inert cushioning material 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> <li>None known</li> <li>Nitriles may polymerise in the presence of metals and some metal compounds.</li> <li>They are incompatible with acids; mixing nitriles with strong oxidising acids can lead to extremely violent reactions.</li> <li>Nitriles are generally incompatible with other oxidising agents such as peroxides and epoxides.</li> </ul>          |

| шу | The covalent cyano group is endothermic and many organic nitriles are reactive under certain conditions; N-cyano derivatives |
|----|--|
|    | are reactive or unstable.  |

The majority of endothermic compounds are thermodynamically unstable and may decompose explosively under various circumstances of initiation.

 Many but not all endothermic compounds have been involved in decompositions, reactions and explosions and, in general, compounds with significantly positive values of standard heats of formation, may be considered suspect on stability grounds.
 BRETHERICK L.: Handbook of Reactive Chemical Hazards

Hazard categories in accordance with Regulation (EC) No 1272/2008

Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of

y s

Not Available

Not Available

Continued...

# 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         |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Not Available |

Not Applicable

# Emergency Limits

| Ingredient             | TEEL-1        | TEEL-2        |               | TEEL-3        |
|------------------------|---------------|---------------|---------------|---------------|
| Fluoroiodoacetonitrile | Not Available | Not Available |               | Not Available |
|                        |               |               |               |               |
| Ingredient             | Original IDLH |               | Revised IDLH  |               |
| Fluoroiodoacetonitrile | Not Available |               | Not Available |               |

# 8.2. Exposure controls

|  | provide this high level of protection.<br>The basic types of engineering controls are:<br>Process controls which involve changing the way a job activit<br>Enclosure and/or isolation of emission source which keeps at<br>that strategically "adds" and "removes" air in the work environd<br>designed properly. The design of a ventilation system must no<br>Employers may need to use multiple types of controls to pre-<br>Local exhaust ventilation usually required. If risk of overexpon-<br>obtain adequate protection. Supplied-air type respirator may<br>ensure adequate protection.<br>An approved self contained breathing apparatus (SCBA) man<br>Provide adequate ventilation in warehouse or closed storage<br>"escape" velocities which, in turn, determine the "capture velocontaminant.<br>Type of Contaminant: | selected hazard "physically" away from the unment. Ventilation can remove or dilute an ainatch the particular process and chemical or vent employee overexposure.<br>sure exists, wear approved respirator. Correct be required in special circumstances. Correct y be required in some situations. | ir contaminant if<br>contaminant in use.<br>ct fit is essential to<br>ct fit is essential to<br>rkplace possess var |
|--|---|---|---|
| 8.2.1. Appropriate<br>engineering controls | solvent, vapours, degreasing etc., evaporating from tank (in still air).  |   | 0.25-0.5 m/s<br>(50-100 f/min.)   |
|  |   | aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)   |   |
|  | welding, spray drift, plating acid fumes, pickling (released a  |   | 0.5-1 m/s<br>(100-200 f/min.)   |
|  | welding, spray drift, plating acid fumes, pickling (released a  | at low velocity into zone of active   | (100-200 f/min.)<br>1-2.5 m/s   |
|  | welding, spray drift, plating acid fumes, pickling (released a generation)<br>direct spray, spray painting in shallow booths, drum filling,   | at low velocity into zone of active   | (100-200 f/min.)<br>1-2.5 m/s<br>(200-500 f/min.)<br>2.5-10 m/s   |
|  | welding, spray drift, plating acid fumes, pickling (released a<br>generation)<br>direct spray, spray painting in shallow booths, drum filling,<br>discharge (active generation into zone of rapid air motion)<br>grinding, abrasive blasting, tumbling, high speed wheel gen  | at low velocity into zone of active   | (100-200 f/min.)<br>1-2.5 m/s<br>(200-500 f/min.)<br>2.5-10 m/s   |
|  | <ul> <li>welding, spray drift, plating acid fumes, pickling (released a generation)</li> <li>direct spray, spray painting in shallow booths, drum filling, discharge (active generation into zone of rapid air motion)</li> <li>grinding, abrasive blasting, tumbling, high speed wheel generation into zone of very high rapid air motion).</li> </ul>   | at low velocity into zone of active   | (100-200 f/min.)<br>1-2.5 m/s<br>(200-500 f/min.)<br>2.5-10 m/s   |
|  | <ul> <li>welding, spray drift, plating acid fumes, pickling (released a generation)</li> <li>direct spray, spray painting in shallow booths, drum filling, discharge (active generation into zone of rapid air motion)</li> <li>grinding, abrasive blasting, tumbling, high speed wheel generation into zone of very high rapid air motion).</li> <li>Within each range the appropriate value depends on:</li> </ul>  | at low velocity into zone of active<br>conveyer loading, crusher dusts, gas<br>herated dusts (released at high initial  | (100-200 f/min.)<br>1-2.5 m/s<br>(200-500 f/min.)   |
|  | <ul> <li>welding, spray drift, plating acid fumes, pickling (released a generation)</li> <li>direct spray, spray painting in shallow booths, drum filling, discharge (active generation into zone of rapid air motion)</li> <li>grinding, abrasive blasting, tumbling, high speed wheel generation into zone of very high rapid air motion).</li> <li>Within each range the appropriate value depends on:</li> <li>Lower end of the range</li> </ul>  | at low velocity into zone of active<br>conveyer loading, crusher dusts, gas<br>herated dusts (released at high initial<br>Upper end of the range  | (100-200 f/min.)<br>1-2.5 m/s<br>(200-500 f/min.)<br>2.5-10 m/s   |
|  | <ul> <li>welding, spray drift, plating acid fumes, pickling (released a generation)</li> <li>direct spray, spray painting in shallow booths, drum filling, discharge (active generation into zone of rapid air motion)</li> <li>grinding, abrasive blasting, tumbling, high speed wheel generation into zone of very high rapid air motion).</li> <li>Within each range the appropriate value depends on:</li> <li>Lower end of the range</li> <li>1: Room air currents minimal or favourable to capture</li> </ul>   | at low velocity into zone of active<br>conveyer loading, crusher dusts, gas<br>herated dusts (released at high initial<br>Upper end of the range<br>1: Disturbing room air currents   | (100-200 f/min.<br>1-2.5 m/s<br>(200-500 f/min.<br>2.5-10 m/s   |

| Fluor  | oiodoa | ceton  | itrile |
|--------|--------|--------|--------|
| Fluore | Jiuuua | CELOII | ILINE  |

|   | Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.   |
|---|---|
| 8.2.2. Individual protection<br>measures, such as<br>personal protective<br>equipment |   |
| Eye and face protection   | <ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].</li> </ul>  |
| 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. 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 obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene 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,          - glove thickness and          - glove thickness and          - dexterity          Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).          - When prolonged or frequently 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 2161.1.0 1 or national equivalent) is recommended.          - When prolonged or frequently repeated contact may occur. a glove with a protection class of 5 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.0.1 or national equivalent) is recommended.          - Contaminated 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.          - Socie when breakthrough time > 20 min          - Socie when breakthrough time > 480 min          - Socie when breakthrough time > 480 min          - Socie when breakthrough time > 20 min          - Sorie when glove with at flickness is |
| 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>   |

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 =<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) | 92            | 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 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)                     | 1.279         | 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

|         | The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, |
|---------|---|
| Inhaled | distress.   |
|         | Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.  |
|         |   |

Page 9 of 13

| Ingestion              | Accidental ingestion of the material may be damaging to the health of the individual.<br>Nitrile poisoning exhibits similar symptoms to poisoning due to hydrogen cyanide. The substances irritate the eyes and skin, and<br>are absorbed quickly and completely through the skin.   |                             |  |
|------------------------|--|-----------------------------|--|
| 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 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                    | This material can cause eye irritation and damage in some persons.   |                             |  |
| Chronic                | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.   |                             |  |
| Fluoroiodoacetonitrile | TOXICITY<br>Not Available  | IRRITATION<br>Not Available |  |
| Legend:                | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS.   |                             |  |

 1. 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

| 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:

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

|                        | Endpoint   | Test Duration (hr) | Species       | Value            | Source           |
|------------------------|--|--------------------|---------------|------------------|------------------|
| Fluoroiodoacetonitrile | 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 |                    |               |                  |                  |

# 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 |

| Fluoroiodoacetonitri | le |
|----------------------|----|
|                      | 10 |

| 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 Av | ailable |
| 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 | Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws<br>operating in their area. In some areas, certain wastes must be tracked.<br>A Hierarchy of Controls seems to be common - the user should investigate:<br>• Reduction<br>• Reuse<br>• Recycling<br>• Disposal (if all else fails)<br>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it<br>has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life<br>considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and<br>recycling or reuse may not always be appropriate.<br>• DO NOT allow wash water from cleaning or process equipment to enter drains.<br>• It may be necessary to collect all wash water for treatment before disposal.<br>• In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.<br>• Where in doubt contact the responsible authority. |
|---------------------------------|--|
| 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)

|                                 | ,<br>                           |                |
|---------------------------------|---------------------------------|----------------|
| 14.1. UN number or ID<br>number | 3276                            |                |
| 14.2. UN proper shipping name   | NITRILES, LIQUID, TOXIC, N.O.S. |                |
| 14.3. Transport hazard          | Class                           | 6.1            |
| class(es)                       | Subsidiary risk                 | Not Applicable |

| 14.4. Packing group                | III                            |       |
|------------------------------------|--------------------------------|-------|
| 14.5. Environmental<br>hazard      | Not Applicable                 |       |
|                                    | Hazard identification (Kemler) | 60    |
| 14.6. Special precautions for user | Classification code            | T1    |
|                                    | Hazard Label                   | 6.1   |
|                                    | Special provisions             | 274   |
|                                    | Limited quantity               | 5 L   |
|                                    | Tunnel Restriction Code        | 2 (E) |

# Air transport (ICAO-IATA / DGR)

| • •                                 | -                                 |                            |     |  |  |
|-------------------------------------|-----------------------------------|----------------------------|-----|--|--|
| 14.1. UN number                     | 3276                              |                            |     |  |  |
| 14.2. UN proper shipping name       | Nitriles, liquid, toxic, n.o.s. * |                            |     |  |  |
| 14.3. Transport hazard<br>class(es) | ICAO/IATA Class                   | 6.1                        |     |  |  |
|                                     | ICAO / IATA Subrisk               | Not Applicable             |     |  |  |
|                                     | ERG Code 6L                       |                            |     |  |  |
| 14.4. Packing group                 | 10                                |                            |     |  |  |
| 14.5. Environmental<br>hazard       | Not Applicable                    |                            |     |  |  |
| 14.6. Special precautions for user  | Special provisions                | A3 A4 A137                 |     |  |  |
|                                     | Cargo Only Packing Ir             | 663                        |     |  |  |
|                                     | Cargo Only Maximum                | 220 L                      |     |  |  |
|                                     | Passenger and Cargo               | 655                        |     |  |  |
|                                     | Passenger and Cargo               | 60 L                       |     |  |  |
|                                     | Passenger and Cargo               | Y642                       |     |  |  |
|                                     | Passenger and Cargo               | Limited Maximum Qty / Pack | 2 L |  |  |

# Sea transport (IMDG-Code / GGVSee)

| 14.1. UN number                    | 3276               |                 |
|------------------------------------|--------------------|-----------------|
| 14.2. UN proper shipping name      | NITRILES, LIQUID,  | , TOXIC, N.O.S. |
| 14.3. Transport hazard class(es)   | IMDG Class         | 6.1             |
|                                    | 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 for user | Special provisions | s 223 274       |
|                                    | Limited Quantities | s 5 L           |

# Inland waterways transport (ADN)

| 14.1. UN number                  | 3276                            |
|----------------------------------|---------------------------------|
| 14.2. UN proper shipping name    | NITRILES, LIQUID, TOXIC, N.O.S. |
| 14.3. Transport hazard class(es) | 6.1 Not Applicable              |
| 14.4. Packing group              | III                             |
| 14.5. Environmental hazard       | Not Applicable                  |

| 14.6. Special precautions for user | Classification code | T1             |
|------------------------------------|---------------------|----------------|
|                                    | Special provisions  | 274; 802       |
|                                    | Limited quantity    | 5 L            |
|                                    | Equipment required  | PP, EP, TOX, A |
|                                    | 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 |       |

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### **SECTION 15 Regulatory information**

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

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

### Information according to 2012/18/EU (Seveso III):

Seveso Category Not Available

# 15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

### ECHA SUMMARY

Not Applicable

#### **National Inventory Status**

| National Inventory                                 | Status   |
|--|--|
| Australia - AIIC / Australia<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 eve-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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