

# **Apollo Scientific**

Part Number: **PC302028** Version No: **2.2** Safety Data Sheet Chemwatch Hazard Alert Code: 2

Issue Date: **04/07/2023** Print Date: **04/07/2023** S.GHS.GB-NIR.EN

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

### **Product Identifier**

Product name	2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile	
Chemical Name	2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile	
Synonyms	Not Available	
Other means of identification	Not Available	
CAS number	886500-40-9*	

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

Available

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

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

### **Emergency telephone number**

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

### **SECTION 2 Hazards identification**

### Classification of the substance or mixture

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

### Label elements

Hazard pictogram(s)	
Signal word	Warning

### Hazard statement(s)

H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	

### 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.

# **SECTION 3 Composition / information on ingredients**

### Substances

CAS No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor
886500-40-9*	100	2-Methoxy- 4-(trifluoromethoxy)phenylacetonitrile	Acute Toxicity (Inhalation) Category 4, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Acute Toxicity (Oral) Category 4, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2; H332, H335, H302, H315, H319 <sup>[1]</sup>	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

See section above for composition of Substances

### **SECTION 4 First aid measures**

### 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	If skin or hair contact occurs: <ul> <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, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5 Firefighting measures**

### Extinguishing media

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

### Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.
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 corrosive fumes.</li> </ul>

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

### Personal precautions, protective equipment and emergency procedures

See section 8

# **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>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> </ul>
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	<ul> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	<ul> <li>Moderate hazard.</li> <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>

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

# **SECTION 7 Handling and storage**

# Precautions for safe handling

Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with moisture.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul>
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### Conditions for safe storage, including any incompatibilities

Suitable container	<ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	None known

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

# **Control parameters**

# Occupational Exposure Limits (OEL)

# INGREDIENT DATA

Emergency Limits

Not Available

Ingredient	TEEL-1	TEEL-2		TEEL-3
2-Methoxy- 4-(trifluoromethoxy)phenylacetonitrile	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
2-Methoxy-	Not Available		Not Available	

Occupational Exposure Banding

Ingredient

**Occupational Exposure Band Limit** 

# 2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile

**Occupational Exposure Band Rating** 

4 unification         E         Control           Notes:         Competition of granter barding is a granter of barding is a granter of barding is a granter of appointer is and control to a ranker of appointer is and control to a granter of appointer is and control to appointer is and control to appoint is and control to appointer in the control to appoint in a decigate profester. The degrant of appoint is and control to appoint in a decigate profester. The degrant is appointer in the control to appoint in appointer in	lingreaterit	Occupational Exposure Dana Rating	Occupational Exposure Danu En			
Appropriate engineering encoded operation of the approace hand (DEE), which corresponds to a mage of exposure concentrations that are expected to a protect worker headth.	2-Methoxy- 4-(trifluoromethoxy)phenylacetoni	trile E	≤ 0.1 ppm			
Appropriate engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high iteed of protection.         The basic types of engineering controls are:       Process controls with involve charging the ways job activity or process is done to reduce the rink.         Encioner and/or instantion of emission source with keeps a selected hazard "physically" away from the worker and ventilation the designed property. The doagn of a worklastion source with keeps a selected hazard "physically" away from the worker and ventilation the designed property. The doagn of a worklastion spectre must match the particular process and charge and a negative constrained in the more designed property. The doagn of a worklastion spectre must match the particular process and charge are properties. Constrained in the more designed in specific the second more data and a mean and a totage area a solution.         Constrain subsus is in adequate under normal operating conditions. Local enhants twetilation may be required in specific the contaminant.       Are Specific the contaminant.         Type of Contaminant:       Are Specific solution and the specific designed in the contaminant.       Are Specific solution and the specific designed in the contaminant.         the contaminant:       Type of Contaminant:       Are Specific solution and the specific designed in the contaminant.       Are Specific solution and the specific designed in the contaminant.         the contaminant:       Type of Contaminant:       Are Specic solution and the specific designed in the contabing solution an	Notes:	chemical's potency and the adverse health outcom occupational exposure band (OEB), which corresp	chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to			
Appropriate engineering       engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to any independent of worker interactions are:         The basic types of engineering controls are:       The basic types of engineering controls are:         Engineering controls with intervice hanging the work environment. Undependent of ensiste controls the intervice transformation of ensiston source with keeps a selected hazard Physically' away from the worker and welliable. The designed are entitled by gase of engineering controls to proven transformation of ensiston source with the experiment of the endition of ensiston source with the verse environment. Undependent of the worker environment of the designed property. The design of a welliable system must match the particular process and chemical or contaminant in the designed property. The design of a welliable system must match the particular process and there are equinated in a specific circumstances. If field of our proposed workers are and welliable must be coded atorage areas. All contaminants are equineed in a specific circumstance, if field of our proposed workers areas. All contaminants and in use. Enditing the system must be charter and welliable in the system must be charter and welliable must be coded atorage areas. All contaminants are equineed in the system must be charter and welliable in the system must be charter and welliable. The specific circumstances, if field of our proposed is information and be equineed in the system must be charter and welliable and the system must be charter and welliable. The specific circumstance, and and the great and the system must be charter and welliable and the system must be charter and welliable. The specific circumstances and welling in the system must be charter and welliable and the system must be system system particular base of the system system sys	xposure controls					
personal protective equipment       • Safety glasses with side shields.         • Safety glasses with side shields.       • 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 shoul 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].	Appropriate engineering controls	engineering controls can be highly effective in protecting we provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job acti Enclosure and/or isolation of emission source which keeps that strategically "adds" and "removes" air in the work envit designed properly. The design of a ventilation system must Employers may need to use multiple types of controls to pr General exhaust is adequate under normal operating cond circumstances. If risk of overexposure exists, wear approve Provide adequate ventilation in warehouse or closed storage varying "escape" velocities which, in turn, determine the "c the contaminant. Type of Contaminant: solvent, vapours, degreasing etc., evaporating from tank ( aerosols, fumes from pouring operations, intermittent con- welding, spray drift, plating acid fumes, pickling (released direct spray, spray painting in shallow booths, drum filling, (active generation into zone of rapid air motion) grinding, abrasive blasting, tumbling, high speed wheel ge into zone of very high rapid air motion). Within each range the appropriate value depends on: Lower end of the range 1: Room air currents minimal or favourable to capture 2: Contaminants of low toxicity or of nuisance value only. 3: Intermittent, low production. 4: Large hood or large air mass in motion Simple theory shows that air velocity falls rapidly with dista generally decreases with the square of distance from the e extraction point should be adjusted, accordingly, after refer extraction fan, for example, should be a minimum of 1-2 m meters distant from the extraction point. Other mechanical apparatus, make it essential that theoretical air velocities a	vorkers and will typically be independent of worker         ivity or process is done to reduce the risk.         a selected hazard "physically" away from the wirker         romment. Ventilation can remove or dilute an air to match the particular process and chemical or corevent employee overexposure.         itions. Local exhaust ventilation may be required arespirator. Correct fit is essential to obtain adding areas. Air contaminants generated in the wor apture velocities" of fresh circulating air required (in still air).         tainer filling, low speed conveyer transfers, at low velocity into zone of active generation)         conveyer loading, crusher dusts, gas discharge enerated dusts (released at high initial velocity         Upper end of the range         1: Disturbing room air currents         2: Contaminants of high toxicity         3: High production, heavy use         4: Small hood-local control only         nce away from the opening of a simple extraction xtraction point (in simple cases). Therefore the arence to distance from the contaminating source. /s (200-400 f/min) for extraction of solvents gene considerations, producing performance deficits	er interactions to brker and ventilation contaminant if branchinant in use. I in specific equate protection. kplace possess to effectively remove Air Speed: 0.25-0.5 m/s (50-100 f/min) 0.5-1 m/s (100-200 f/min.) 1-2.5 m/s (200-500 f/min.) 2.5-10 m/s (500-2000 f/min.) n pipe. Velocity air speed at the The air velocity at the rrated in a tank 2 within the extraction		
<ul> <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 shoul 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>	personal protective	Safety alasses with side shields				
Skin protection See Hand protection below	Eye and face protection	<ul> <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</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 observed when making a final choice. Personal hygine 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: i-frequency and duration of contact, e-therical resistance of glove material, e-det 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 2161.10.1 or national equivalent) is recommended. (Stranger than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. (Stranger 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. As down in the should be taken into account when considering gloves for long-term use. (Sove with a protection of glove are rated as: (Excellent when breakthrough time < 20 min (Excellent and application, gloves with a thickness typically greater than 0.35 mm, are recommended. (It should be emphasised that glove with a thickness typically greater than 0.35 mm, are recommended. (It should be to be aseed on consideration of the equiver down at keys the and knowledge of breakthrough times. (Bove with a biokenes may also vary depending on the cessarily a good predictor of glove raterial. Therefore, glove selecti
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>

# **SECTION 9 Physical and chemical properties**

# Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	Liquid	Relative density (Water = 1)	Not Available
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available

Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not 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)	Not Available	VOC g/L	Not Available

# **SECTION 10 Stability and reactivity**

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

# **SECTION 11 Toxicological information**

# Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.
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.
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.

Legend:

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 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

# **SECTION 12 Ecological information**

# Toxicity

Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity
	4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) -
	Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

# Persistence and degradability

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

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
	No Data available for all ingredients

### Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

### **SECTION 13 Disposal considerations**

### Waste treatment methods

Product / Packaging disposal	<ul> <li>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</li> <li>A Hierarchy of Controls seems to be common - the user should investigate: <ul> <li>Reduction</li> <li>Reduction</li> <li>Recycling</li> <li>Disposal (if all else fails)</li> </ul> </li> <li>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 has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.</li> <li><b>DO NOT allow wash water from cleaning or process equipment to enter drains</b>.</li> <li>It may be necessary to collect all wash water for treatment before disposal.</li> <li>In all cases disposal to sever may be subject to local laws and regulations and these should be considered first.</li> <li>Where in doubt contact the responsible authority.</li> <li>Recycle wherever possible.</li> <li>Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.</li> <li>Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).</li> <li>Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.</li> </ul>
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# **SECTION 14 Transport information**

 Marine Pollutant
 NO

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

# Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
2-Methoxy- 4-(trifluoromethoxy)phenylacetonitrile	Not Available

### Transport in bulk in accordance with the IGC Code

Product name	Ship Type
2-Methoxy- 4-(trifluoromethoxy)phenylacetonitrile	Not Available

### **SECTION 15 Regulatory information**

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

# 2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile is found on the following regulatory lists

Not Applicable

### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	No (2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile)
Canada - DSL	No (2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile)
Canada - NDSL	No (2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile)
China - IECSC	No (2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile)
Europe - EINEC / ELINCS / NLP	No (2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile)
Japan - ENCS	No (2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile)
Korea - KECI	No (2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile)
New Zealand - NZIoC	No (2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile)
Philippines - PICCS	No (2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile)
USA - TSCA	No (2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile)
Taiwan - TCSI	No (2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile)
Mexico - INSQ	No (2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile)
Vietnam - NCI	No (2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile)
Russia - FBEPH	No (2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile)
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

### **SECTION 16 Other information**

Revision Date	04/07/2023
Initial Date	04/07/2023

### **SDS Version Summary**

Version	Date of Update	Sections Updated
1.2	04/07/2023	CAS Number, Hazards identification - Classification, Composition / information on ingredients - Ingredients, Korean MSDS Number, Identification of the substance / mixture and of the company / undertaking - Supplier Information, Identification of the substance / mixture and of the company / undertaking - Synonyms

Part Number: PC302028 Version No: 2.2

#### 2-Methoxy-4-(trifluoromethoxy)phenylacetonitrile

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

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

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

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

PC - TWA: Permissible Concentration-Time Weighted Average

PC - STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List

NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory

NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure	
Acute Toxicity (Inhalation) Category 4, H332	Expert judgement	
Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, H335	Expert judgement	
Acute Toxicity (Oral) Category 4, H302	Expert judgement	
Skin Corrosion/Irritation Category 2, H315	Expert judgement	
Serious Eye Damage/Eye Irritation Category 2, H319	Expert judgement	

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