

# **SAFETY DATA SHEET**

Revision Date 25-March-2024 Revision Number 3

## 1. Identification

Product Name 3-Fluorophenylacetonitrile

Cat No. : L08377

**CAS-No** 501-00-8

Synonyms 3-Fluorobenzeneacetonitrile; 3-Fluorobenzyl cyanide

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

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

#### Company

### Importer/Distributor

Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6,

Canada

Tel: 1-800-234-7437

#### **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

Classification

WHMIS 2015 Classification Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Acute oral toxicity
Category 4
Acute dermal toxicity
Category 4
Acute Inhalation Toxicity
Category 4

Label Elements

# **Signal Word**

Warning

#### **Hazard Statements**

Harmful if swallowed, in contact with skin or if inhaled Harmful if inhaled



### **Precautionary Statements**

#### Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection

#### Response

IF ON SKIN: Wash with plenty of soap and water

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a POISON CENTER/ doctor if you feel unwell

Rinse mouth

Take off contaminated clothing and wash it before reuse

#### Disposal

Dispose of contents/container to an approved waste disposal plant

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %	
Benzeneacetonitrile, 3-fluoro-	501-00-8	> 99	

# 4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

**Inhalation** Remove from exposure, lie down. Remove to fresh air.

**Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink

plenty of water. If possible drink milk afterwards.

Most important symptoms/effects

Notes to Physician

No information available.

Treat symptomatically

### 5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Alcohol resistant foam.

Unsuitable Extinguishing Media No information available

Flash Point  $> 110 \, ^{\circ}\text{C} \, / > 230 \, ^{\circ}\text{F}$ 

Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

### 3-Fluorophenylacetonitrile

Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

None known.

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### NFPA

Health **Flammability** Instability Physical hazards 2 1 0 N/A

## 6. Accidental release measures

Ensure adequate ventilation. Use personal protective equipment as required. **Personal Precautions** 

**Environmental Precautions** See Section 12 for additional Ecological Information.

Methods for Containment and Clean Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, Up

sawdust). Keep in suitable, closed containers for disposal.

## Handling and storage

Handling Ensure adequate ventilation.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure controls / personal protection

### **Exposure Guidelines**

Component	Alberta		Ontario TWAEV	Quebec	ACGIH TLV	OSHA PEL	NIOSH
		Columbia					
Benzeneacetonitrile,				Ceiling: 10 ppm		(Vacated) TWA:	IDLH: 25 mg/m <sup>3</sup>
3-fluoro-				Ceiling: 11		5 mg/m <sup>3</sup>	
				mg/m³			
				Skin			

#### Legend

OSHA - Occupational Safety and Health Administration

NIOSH: NIOSH - National Institute for Occupational Safety and Health

Ensure adequate ventilation, especially in confined areas. **Engineering Measures** 

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact. and the use of properly designed ventilation systems, should be adopted to control

hazardous materials at source

### Personal protective equipment

Wear safety glasses with side shields (or goggles) Goggles **Eye Protection** 

**Hand Protection** Protective gloves

Γ	Glove material	Breakthrough time	Glove thickness	Glove comments
l	Nitrile rubber	See manufacturers		Splash protection only
l	Neoprene	recommendations		

Natural rubber PVC

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

#### **Respiratory Protection**

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly **Recommended Filter type:** Organic gases and vapours filter Type A Brown conforming to EN14387

When RPE is used a face piece Fit Test should be conducted

#### **Environmental exposure controls**

No information available.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

# 9. Physical and chemical properties

Physical StateLiquidAppearanceLight yellowOdorOdorless

Odor ThresholdNo information availablepHNo information availableMelting Point/RangeNo data available

Boiling Point/Range 113 - 114 °C / 235.4 - 237.2 °F @ 18 mmHg

Flash Point > 110 °C / > 230 °F Evaporation Rate No information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information available

Vapor Density 4.66 Specific Gravity 1.160

Solubility

No information available

Partition coefficient; n-octanol/water

No data available

Autoignition TemperatureNo information availableDecomposition TemperatureNo information availableViscosityNo information available

Molecular FormulaC8 H6 F NMolecular Weight135.14

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Stable under normal conditions.

Conditions to Avoid Incompatible products.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products None under normal use conditions

**Hazardous Polymerization** No information available.

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

**Product Information Component Information** 

**Toxicologically Synergistic** No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No information available Irritation

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Benzeneacetonitrile,	501-00-8	Not listed				
3-fluoro-						

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

No information available. **Developmental Effects** 

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

No information available **Aspiration hazard** 

Symptoms / effects,both acute and No information available

**Endocrine Disruptor Information** 

delayed

No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

# 12. Ecological information

**Ecotoxicity** 

Mobility

Do not empty into drains.

Persistence and Degradability No information available **Bioaccumulation/ Accumulation** No information available. No information available.

## 13. Disposal considerations

Chemical waste generators must determine whether a discarded chemical is classified as a **Waste Disposal Methods** 

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT

UN-No UN3276 **Hazard Class** 6.1 **Packing Group** Ш

TDG

**UN-No** UN3276 **Hazard Class** 6.1 **Packing Group** 

<u>IATA</u>

**UN-No** UN2810

**Proper Shipping Name** TOXIC LIQUID, ORGANIC, N.O.S.\*

**Hazard Class** 6.1 **Packing Group** 

IMDG/IMO

**UN-No** UN2810

**Proper Shipping Name** Toxic liquid, organic, n.o.s.

**Hazard Class** 6.1 **Packing Group** 

# 15. Regulatory information

### **International Inventories**

Component	CAS-No	DSL	NDSL	TSCA	TSCA Inventory notification - Active-Inactive		EINECS	ELINCS	NLP
Benzeneacetonitrile, 3-fluoro-	501-00-8	-	Х	Х	INACTIVE		207-918-2	-	ı
Component	CAS-No	IECSC	KECL	ENCS	ISHL	TCSI	AICS	NZIoC	PICCS
Benzeneacetonitrile, 3-fluoro-	501-00-8	-	-	-	X	X	-	-	-

### Legend:

X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

Component	Canada - National Pollutant Release Inventory (NPRI)	Canadian Environmental Protection Agency (CEPA) - List of Toxic Substances	Canada's Chemicals Management Plan (CEPA)
Benzeneacetonitrile, 3-fluoro-	Part 1, Group A Substance		

#### Other International Regulations

Authorisation/Restrictions according to EU REACH

Not applicable

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

### 3-Fluorophenylacetonitrile

CAS-No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
501-00-8	Not applicable	Not applicable	Not applicable	Not applicable
501-00-8	Not applicable	Not applicable	Not applicable	Not applic
			Pollutant	Pollutant Potential

Component	CAS-No	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		for Major Accident	for Safety Report		
		Notification	Requirements		
Benzeneacetonitrile, 3-fluoro-	501-00-8	Not applicable	Not applicable	Not applicable	Not applicable

# 16. Other information

Prepared By Product Safety Department

Email: chem.techinfo@thermofisher.com

www.thermofisher.com

**Revision Date** 25-March-2024 **Print Date** 25-March-2024

**Revision Summary** New emergency telephone response service provider.

#### **Disclaimer**

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**End of SDS**