

SAFETY DATA SHEET

Revision Date 23-Jan-2018

Revision Number 3

1. Identification		
Product Name	3-Cyanopyridine	
Cat No. :	AC110860000; AC110860025; AC110860050; AC110861000; AC110865000	
CAS-No Synonyms	100-54-9 Nicotinonitrile	
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use	
Details of the supplier of the	safety data sheet	

<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **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

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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Label Elements

Signal Word Warning

Hazard Statements

Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

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

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
3-Pyridinecarbonitrile	100-54-9	98

4. First-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.	
Inhalation	Remove from exposure, lie down. Move to fresh air. If not breathing, give artificial respiration. Obtain medical attention.	
Ingestion	Clean mouth with water. Get medical attention.	
Most important symptoms and	No information available.	
effects Notes to Physician	Treat symptomatically	

	5. Fire-fighting				
Suitable Extinguishing Media	Water spray. Carbon dioxide exposed to fire with water sp		al foam. Cool closed containers		
Unsuitable Extinguishing Media	No information available				
Flash Point	84 °C / 183.2 °F	84 °C / 183.2 °F			
Method -	No information available				
Autoignition Temperature	600 °C / 1112 °F				
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge Specific Hazards Arising from the O Flammable. Combustible material. Co Hazardous Combustion Products Nitrogen oxides (NOx) Carbon monox Protective Equipment and Precauti As in any fire, wear self-contained bre protective gear.	No information available Chemical mbustible material. Containers ide (CO) Carbon dioxide (CO ₂) ons for Firefighters		d or equivalent) and full		
NFPA Health 2	Flammability 1	Instability 0	Physical hazards N/A		
NFPAHealth	-	Instability 0	Physical hazards		
NFPAHealth	6. Accidental rele	Instability 0 ase measures n. Take precautionary measur	Physical hazards N/A		
NFPA Health 2 Personal Precautions	1 6. Accidental rele Remove all sources of ignitio See Section 12 for additional	Instability 0 ase measures n. Take precautionary measur ecological information.	Physical hazards N/A res against static discharges.		
NFPA Health 2 Personal Precautions Environmental Precautions Methods for Containment and Clea	1 6. Accidental rele Remove all sources of ignitio See Section 12 for additional n Sweep up or vacuum up spill	Instability 0 ase measures n. Take precautionary measur ecological information. age and collect in suitable cor	Physical hazards N/A res against static discharges.		
NFPA Health 2 Personal Precautions Environmental Precautions Methods for Containment and Clea	1 6. Accidental rele Remove all sources of ignitio See Section 12 for additional n Sweep up or vacuum up spill sources of ignition. 7. Handling au	Instability 0 ase measures n. Take precautionary measur ecological information. age and collect in suitable cor nd storage yes. Do not breathe dust. Kee	Physical hazards N/A res against static discharges.		
NFPA Health 2 Personal Precautions Environmental Precautions Methods for Containment and Clea Up	1 6. Accidental rele Remove all sources of ignitio See Section 12 for additional n Sweep up or vacuum up spill sources of ignition. 7. Handling an Avoid contact with skin and e surfaces and sources of ignit Keep in a dry, cool and well-v	Instability 0 ase measures n. Take precautionary measur ecological information. age and collect in suitable cor nd storage yes. Do not breathe dust. Kee	Physical hazards N/A res against static discharges. Intainer for disposal. Remove all ep away from open flames, hot er tightly closed. Keep away		
NFPA Health 2 Personal Precautions Environmental Precautions Methods for Containment and Clea Up Handling Storage	1 6. Accidental rele Remove all sources of ignitio See Section 12 for additional n Sweep up or vacuum up spill sources of ignition. 7. Handling an Avoid contact with skin and e surfaces and sources of ignit Keep in a dry, cool and well-v from heat and sources of ign	Instability 0 ase measures n. Take precautionary measur ecological information. age and collect in suitable cor nd storage yes. Do not breathe dust. Kee ion. ventilated place. Keep contain tion. Keep containers tightly c	Physical hazards N/A res against static discharges. Intainer for disposal. Remove all ep away from open flames, hot er tightly closed. Keep away closed in a dry, cool and		

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
3-Pyridinecarbonitrile		(Vacated) TWA: 5 mg/m ³	IDLH: 25 mg/m ³	TWA: 5 mg/m ³

<u>Legend</u>

OSHA - Occupational Safety and Health Administration NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Solid
Appearance	Light yellow
Odor	Odorless
Odor Threshold	No information available
рН	6.5
Melting Point/Range	47 - 51 °C / 116.6 - 123.8 °F
Boiling Point/Range	201 °C / 393.8 °F @ 760 mmHg
Flash Point	84 °C / 183.2 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	0.296 mmHg @ 25 °C
Vapor Density	Not applicable
Specific Gravity	1.159
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	600 °C / 1112 °F
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C6 H4 N2
Molecular Weight	104.11

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents
Hazardous Decomposition Product	ts Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	No information available.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Component Information	-	No acute toxicity in	formation is avail	able for this product			
Componen		LD50 Oral		LD50 Dermal	LC50	Inhalation	
3-Pyridinecarbo		D50 = 1455 mg/kg(F D50 = 1475 mg/kg (F		LD50 2000 - 4000 mg/kg (Rabbit)		t) Not listed	
Toxicologically Syn Products	-	No information ava					
Delayed and immed	late effects as w	ell as chronic effe	cts from short a	na long-term expos	sure_		
Irritation		No information ava	ilable				
Sensitization		No information ava	ilable				
Carcinogenicity		The table below in	dicates whether e	each agency has liste	ed any ingredient	as a carcinogen.	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
3-Pyridinecarbonitrile	100-54-9	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	ilable	• •			
Reproductive Effect	Reproductive Effects No information available.						
Developmental Effects No in		No information available.					
Teratogenicity		No information available.					
STOT - single expos STOT - repeated exp		Respiratory system None known					
Aspiration hazard		No information available					
Symptoms / effects delayed	,both acute and	nd No information available					
Endocrine Disrupto	r Information	No information ava	ilable				
Other Adverse Effect	cts	The toxicological properties have not been fully investigated.					

12. Ecological information

Ecotoxicity

Mobility

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
3-Pyridinecarbonitrile	EC50: = 581.6 mg/L, 60h (Tetrahymena pyriformis)	Not listed	EC50 = 581.65 mg/L 60 h EC50 = 642 mg/L 15 min EC50 = 642 mg/L 5 min EC50 = 657 mg/L 30 min	Not listed

Persistence and Degradability Persist

Persistence is unlikely

No information available.

Bioaccumulation/ Accumulation

. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
3-Pyridinecarbonitrile	0.36

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a 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	UN2811			
Hazard Class	6.1			
Packing Group	111			
TDG				
UN-No	UN2811			
Hazard Class	6.1			
Packing Group	111			
ΙΑΤΑ	Not regulated			
IMDG/IMO	Not regulated			
	15. Regulatory information			

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
3-Pyridinecarbonitrile	Х	-	Х	202-863-0	-		Х	Х	Х	Х	Х

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
3-Pyridinecarbonitrile	100-54-9	98	1.0

SARA 311/312 Hazard Categories See section 2 for more information

CWA (CI	ean Water Act)	Not applicable

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
3-Pyridinecarbonitrile	-	-	X	Х

Clean Air Act Not applicable

	Hot applicable		
Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
3-Pyridinecarbonitrile	Х		-

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
3-Pyridinecarbonitrile	-	Х	Х	Х	Х

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Revision Date	23-Jan-2018
Print Date	23-Jan-2018
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS