

# SAFETY DATA SHEET

Creation Date 22-Sep-2009

Revision Date 24-Dec-2021

**Revision Number** 4

# 1. Identification

**Product Name** 

**Recommended Use** 

Uses advised against

# 3-Aminopropionitrile fumarate

# Cat No. : AC104470000; AC104470050; AC104470250; AC104471000

2079-89-2

CAS No Synonyms

BAPN fumarate; beta-Aminopropionitrile, fumarate; 3-Aminopropionitrile, fumarate Laboratory chemicals. Food, drug, pesticide or biocidal product use.

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

Company

Fisher Scientific Company 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)

Acute oral toxicity Reproductive Toxicity Category 4 Category 1B

Label Elements

Signal Word Danger

Hazard Statements

Harmful if swallowed May damage fertility or the unborn child



#### Precautionary Statements Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood 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 Response IF exposed or concerned: Get medical attention/advice Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Storage 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 %				
Propanenitrile, 3-amino-, (E)-2-bute	nedioate (2:1)	2079-89-2	> 99				
	4. Firs	st-aid measures					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. medical attention.						
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.						
Inhalation	Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.						
Ingestion	Do NOT induce vomiting. Get medical attention.						
Most important symptoms and effects	No information available.						
Notes to Physician	Treat symptomatically						

# 5. Fire-fighting measures

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Alcohol resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available

Autoignition Temperature Explosion Limits	No information available
Upper Lower	No data available No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	

#### Specific Hazards Arising from the Chemical

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

#### **Hazardous Combustion Products**

Nitrogen oxides (NOx). Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

#### **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. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 2	Flammability 1	<b>Instability</b> 0	Physical hazards N/A						
	6. Accidental rel	lease measures							
Personal Precautions Environmental Precautions	Ensure adequate ventilatio See Section 12 for addition	n. Use personal protective equipmental Ecological Information.	ent as required.						
Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Up									
	7. Handling a	and storage							
Handling	contaminated clothing and vapors or mists. Do not ing	d eyes. Avoid contact with skin and gloves, including the inside, before lest. If swallowed then seek immedi Wear personal protective equipmen	re-use. Avoid breathing ate medical assistance. Wash						
Storage.		II-ventilated place. Keep container t g agents. Strong acids. Strong base							
8. E	xposure controls	/ personal protection							
Exposure Guidelines		ain any hazardous materials with o jion specific regulatory bodies.	ccupational exposure						
Engineering Measures		n, especially in confined areas. Ensiste to the workstation location.	sure that eyewash stations						
Personal Protective Equipment									
Eye/face Protection	Wear appropriate protective OSHA's eye and face prote EN166.	e eyeglasses or chemical safety go action regulations in 29 CFR 1910.1	ggles as described by 33 or European Standard						
Skin and body protection	Wear appropriate protective	e gloves and clothing to prevent sk	in exposure.						
<b>Respiratory Protection</b>	No protective equipment is	needed under normal use conditio	ns.						
Hygiene Measures	Handle in accordance with	good industrial hygiene and safety	practice.						

## 9. Physical and chemical properties

**Physical State** Appearance Odor **Odor Threshold** pН . Melting Point/Range Boiling Point/Range Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity Molecular Formula **Molecular Weight** 

Powder Solid White Odorless No information available No information available 170 - 173 °C / 338 - 343.4 °F No information available No information available No tapplicable No information available No data available No data available No information available

No information available No information available No information available No information available No data available No information available No information available No information available Not applicable C3 H6 N2 . 0.5 C4 H4 O4 128.13

## 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, Strong acids, Strong bases, Strong reducing agents, Oxidizing agent
Hazardous Decomposition Product	s Nitrogen oxides (NOx), Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information Oral LD50 Component Information Toxicologically Synergistic Products Delayed and immediate effects as	Category 4. ATE = 300 - 2000 mg/kg. No information available well as chronic effects from short and long-term exposure
Irritation	No information available
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		
Propanenitrile, 3-amino-, (E)-2-butenedioate (2:1)	2079-89-2	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ailable		-			
Reproductive Effects No information available.								
Developmental Effects No information available.								
Teratogenicity		No information ava	ailable.					
STOT - single expos STOT - repeated exp		None known None known						
Aspiration hazard		No information ava	ailable					
Symptoms / effects delayed	Symptoms / effects,both acute and No information available lelayed							
Endocrine Disruptor Information No information available								
Other Adverse Effect	cts	The toxicological p	properties have not	been fully investig	gated.			
12. Ecological information								
<u>Ecotoxicity</u> Do not empty into dra	ains.							
Persistence and De	gradability	No information ava	ailable					
Bioaccumulation/ A	ccumulation	No information ava	ailable.					
Mobility		No information ava	ailable.					
		13. Dispo	sal conside	erations				
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.								
			sport inform	mation				
<u>DOT</u> TDG		Not regulated Not regulated						
		Not regulated						
IMDG/IMO		Not regulated						

### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Propanenitrile, 3-amino-, (E)-2-butenedioate (2:1)	2079-89-2	Х	ACTIVE	-

15. Regulatory information

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Propanenitrile, 3-amino-, (E)-2-butenedioate (2:1)	2079-89-2	-	Х	218-208-7	-	-		-	-	-

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

#### U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	s See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - 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	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	on N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

Authorisation/Restrictions according to EU REACH

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Propanenitrile, 3-amino-, (E)-2-butenedioate (2:1)	2079-89-2	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) -	Seveso III Directive (2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)

		Qualifying Quantities for Major Accident Notification	Qualifying Quantities for Safety Report Requirements		
Propanenitrile, 3-amino-, (E)-2-butenedioate (2:1)	2079-89-2	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information	
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	22-Sep-2009
Revision Date	24-Dec-2021
Print Date	24-Dec-2021
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**