

# SAFETY DATA SHEET

Creation Date 01-Mar-2011

Revision Date 18-Jan-2018

**Revision Number** 3

	1. Identification				
Product Name Methyl 3-mercaptopropionate					
Cat No. :	AC148870000; AC148870050; AC148871000; AC148875000				
CAS-No Synonyms	2935-90-2 None				
Recommended Use Uses advised against Details of the supplier of the	Laboratory chemicals. Food, drug, pesticide or biocidal product use. <u>safety data sheet</u>				
<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					
Classification	2. Hazard(s) identification				

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

Flammable liquids	Category 3	
Acute oral toxicity	Category 3	
Acute dermal toxicity	Category 4	
Acute Inhalation Toxicity - Dusts and Mists	Category 2	
Skin Corrosion/Irritation	Category 2	
Serious Eye Damage/Eye Irritation	Category 2	
Specific target organ toxicity (single exposure)	Category 3	
Target Organs - Respiratory system.		

### Label Elements

Signal Word Danger

Hazard Statements Flammable liquid and vapor Toxic if swallowed Harmful in contact with skin Causes skin irritation Causes serious eye irritation Fatal if inhaled 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 Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Keep cool Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician Call a POISON CENTER or doctor/physician if you feel unwell Skin Call a POISON CENTER or doctor/physician if you feel unwell If skin irritation occurs: Get medical advice/attention IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing 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 Indestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) Very toxic to aquatic life with long lasting effects Other hazards Stench.

3. Composition/Information on Ingredients				
Component		CAS-No	Weight %	
Propanoic acid, 3-mercapto-, m	ethyl ester	2935-90-2	>95	
	4.	First-aid measures		
General Advice Immediate medical attention is not required. Show this safety data sheet to the doctor in attendance. If symptoms persist, call a physician.				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.			
Inhalation	Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If not breathing, give artificial respiration.			
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.			
Most important symptoms and effects Notes to Physician	Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically			

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	No information available
Flash Point	60 °C / 140 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

#### Specific Hazards Arising from the Chemical

Combustible material. Containers may explode when heated. Flammable. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Do not allow run-off from fire-fighting to enter drains or water courses.

#### Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Sulfur oxides.

#### **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.

NFPA			
Health	Flammability	Instability	Physical hazards
4	2	0	N/A

	6. Accidental release measures
Personal Precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Remove all sources of ignition. Take precautionary measures against static discharges.
Environmental Precautions	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.
Methods for Containment and Clea Up	In Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
	7. Handling and storage
Handling	Use only under a chemical fume hood. Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use spark-proof tools and explosion-proof equipment. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance. Take precautionary measures against static discharges.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.
8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation, especially in confined areas.
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.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
Hygiene Measures	When using do not eat, drink or smoke. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Provide regular cleaning of equipment, work area and clothing.

9. Physica	I and chemical	properties

Physical State	Liquid
Appearance	Colorless
Odor	Stench
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	54 - 169 °C / 129.2 - 336.2 °
Flash Point	60 °C / 140 °F
Evaporation Rate	No information available

°F

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

Not applicable

No data available No data available 2 mmHg @ 21°C 4.14 1.080 No information available No data available No information available No information available No information available C4 H8 O2 S 120.17

## 10. Stability and reactivity

Reactive Hazard None known, based on information available		
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.	
Incompatible Materials	Strong oxidizing agents, Strong bases	
Hazardous Decomposition Product	<b>s</b> Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Sulfur oxides	
Hazardous Polymerization	No information available.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

# Product Information

component information						
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation			
Propanoic acid, 3-mercapto-, methyl	Not listed	Not listed	LC50 = 1720 mg/m3 (Rat) 4 h			
ester						
T I I I I O I I I	Mar information accultate					

Toxicologically Synergistic No information available Products

#### Delayed and immediate effects as 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
Propanoic acid,	2935-90-2	Not listed				
3-mercapto-, methyl						
ester						
Mutagenic Effects No information available						
Reproductive Effects No information available.						
Developmental Effect	No information ava	ailable.				

Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	Respiratory system None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

# 12. Ecological information

#### Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae		Freshwater Fish	Microtox	Water Flea			
Propanoic acid, 3-mercapto-,	, Not listed		LC50: 1.7 mg/l/96h	Not listed	EC50: 0.55 mg/l/48h			
methyl ester			(Oncorhynchus mykiss)					
Persistence and Degradability		Persistence is unlikely based on information available.						
<b>Bioaccumulation/ Accumulation</b>		No information available.						
Mobility	Will likely be mobile in the environment due to its volatility.							
		13. Di	sposal considera	tions				
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is cl   hazardous waste. Chemical waste generators must also consult local, regiona   national hazardous waste regulations to ensure complete and accurate classifier				It local, regional, and				
		14. T	ransport informa	tion				
DOT								
UN-No		UN1993						
Hazard Class		3						
Packing Group		III						
TDG								
UN-No		UN1993						
Hazard Class		3						
Packing Group								
IATA								

nazalu Glass	5
Packing Group	III
IATA	
UN-No	UN3071
Proper Shipping Name	Mercaptans, liquid, toxic, flammable, n.o.s.
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	II
IMDG/IMO	
UN-No	UN3071
Proper Shipping Name	Mercaptans, liquid, toxic, flammable, n.o.s.
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	II
	15 Degulatory information

15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Propanoic acid, 3-mercapto-, methyl ester	2935-90-2	Х	ACTIVE	-

#### Legend:

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), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Propanoic acid, 3-mercapto-,	2935-90-2	Х	-	220-912-4	Х	Х	Х	Х	KE-23109
methyl ester									

#### U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	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	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	Moderate risk, Grade 2

## 16. Other information

Prepared By	Regulatory Affairs
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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