



2-ETHYLHEXYL MERCAPTOACETATE

Material Safety Data Sheet

Arkema Inc.

1 PRODUCT AND COMPANY IDENTIFICATION

Thio and Fine Chemicals

Arkema Inc.
2000 Market Street
Philadelphia, PA 19103

EMERGENCY PHONE NUMBERS:

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison Control Center
(866) 767-5089 (24Hrs)

Information Telephone Numbers	Phone Number	Available Hrs
Customer Service	1-800-628-4453	8:30 to 5:30 EST

Product Name 2-ETHYLHEXYL MERCAPTOACETATE
Product Synonym(s) 2-EHMA

Chemical Family Alkyl Mercaptan
Chemical Formula C10H20O2S
Chemical Name Acetic acid, mercapto-, 2-ethylhexyl ester
EPA Reg Num
Product Use

2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical %	OSHA
2-Ethylhexyl mercaptoacetate	7659-86-1	>99	Y

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is classified as hazardous under Federal OSHA regulation.

The components of this product are all on the TSCA Inventory list.

3 HAZARDS IDENTIFICATION

Emergency Overview

Clear water-white liquid, faint fruity odor

WARNING!
HARMFUL IF SWALLOWED.
MAY CAUSE ALLERGIC SKIN REACTION.
MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS

Potential Health Effects

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests, it is considered to be moderately toxic if swallowed, no more than slightly toxic if absorbed through skin or inhaled, non-irritating to eyes and slightly irritating to skin. Repeated exposure may cause an allergic skin reaction. Exposure of workers resulted in headaches, dizziness, fatigue, weariness and gastrointestinal symptoms. High vapor concentrations may be irritating to the eyes and respiratory tract, and may result in central nervous system (CNS) effects such as nausea, drowsiness and, in severe exposures, loss of consciousness.

4 FIRST AID MEASURES



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4 FIRST AID MEASURES

IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

IF ON SKIN, immediately wash with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Thoroughly clean shoes before reuse.

IF SWALLOWED, induce vomiting immediately as directed by medical personnel. Get medical attention. Call a Poison Control Center. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

5 FIRE FIGHTING MEASURES

Fire and Explosive Properties

Auto-Ignition Temperature	NE		
Flash Point	254.8 F (124 C)	Flash Point Method	PMCC
Flammable Limits- Upper	NE		
Lower	NE		

Extinguishing Media

Use water spray, carbon dioxide, foam or dry chemical.

Fire Fighting Instructions

Use water spray. A solid stream of water can cause frothing and spattering. Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

Fire and Explosion Hazards

When burned, the following hazardous products of combustion can occur:

Hydrogen sulfide
Sulfur oxides
Oxides of carbon

6 ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Contain spill. Stop leak at source if this can be done safely. Ventilate area. Nonessential personnel should leave the area until cleanup is completed. Pump liquid into DOT-approved drums for disposal. Absorb remaining liquid onto inert absorbent and place in DOT approved drums for disposal. Wash area with water. Keep concentrate and wash water from entering sewers or waterways. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

7 HANDLING AND STORAGE

**7 HANDLING AND STORAGE****Handling**

Do not taste or swallow.
Avoid prolonged or repeated contact with skin.
Keep container closed.
Use only with adequate ventilation.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

Storage

Keep container closed. Store in a cool, dry, well ventilated area. Keep away from food and drink. Isolate from incompatible materials (see Section 10).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION**Engineering Controls**

Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposures. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Eye / Face Protection

Use good industrial practice to avoid eye contact.

Skin Protection

Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Consult glove manufacturer to determine appropriate type glove material for given application. Wear face shield and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse contaminated skin promptly. Wash contaminated clothing and clean protective equipment before reuse. Wash skin thoroughly after handling.

Respiratory Protection

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

Airborne Exposure Guidelines for Ingredients

The components of this product have no established Airborne Exposure Guidelines

- Only those components with exposure limits are printed in this section.
- Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
- ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.
- WEEL-AIHA Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic skin reactions.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor	Clear water-white liquid, faint fruity odor
pH	NE
Specific Gravity	0.974 @ 20 C (68 F)
Vapor Pressure	0.01 mbar (1 Pa) @ 20 C
Vapor Density	NA
Melting Point	NA
Freezing Point	<-50C (223.15 K)
Boiling Point	106 C(222.8 F) @ 5.5 mbar
Solubility In Water	4.73 mg/l @ 20 C
Percent Volatile	< 1 %
Viscosity	3.19 mPa.s @ 20 C
Molecular Weight	204.37
Other Physical Data	log Pow = 2.43 refractive index: 1.461

10 STABILITY AND REACTIVITY**Stability**

This material is chemically stable under normal and anticipated storage and handling conditions.

Incompatibility

Avoid contact with strong acids and strong oxidizers.

Hazardous Decomposition Products

Decomposes on heating and generates toxic oxides of sulfur and hydrogen sulfide.

11 TOXICOLOGICAL INFORMATION**Toxicological Information**

Data on this material and/or its components are summarized below.

Single exposure (acute) studies indicate:

Oral - Moderately Toxic to Rats (LD50 303 mg/kg)

Dermal - No More than Slightly Toxic to Rats (LD50 >2,000 mg/kg)

Inhalation - No More than Slightly Toxic to Rats (6-hr LC0 0.51 mg/l)

Eye Irritation - Non-irritating to Rabbits

Skin Irritation - Slightly Irritating to Rabbits

Exposure of workers resulted in headaches, dizziness, fatigue, weariness and gastrointestinal symptoms. Skin allergy was observed in guinea pigs following repeated exposure. Slight liver, kidney and blood effects were noted in one study following repeated dietary administration to rats. Adverse effects were observed late in pregnancy in rats following repeated oral exposure. Generally, no genetic changes were observed in tests using bacteria, animal cells or animals.

12 ECOLOGICAL INFORMATION



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12 ECOLOGICAL INFORMATION

Ecotoxicological Information

Data on this material and/or its components are summarized below.

This material is moderately toxic to golden orfe (48-hr LC50 9 mg/l) and bacteria (16-hr EC50 2.7 mg/l). It is highly toxic to Daphnia magna (48-hr EC50 0.38 mg/l).

Chemical Fate Information

Data on this material and/or its components are summarized below.

This material is not readily biodegradable (22% after 28-days) and is slightly bioaccumulable (log Pow 2.43). The respiration inhibition test on activated sludge gave a 3-hr EC50 of 2,400 mg/l. This material hydrolyzes in water under acidic, basic, and neutral conditions.

13 DISPOSAL CONSIDERATIONS

Waste Disposal

Incineration is the recommended method for disposal observing all local, state and federal regulations. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

14 TRANSPORT INFORMATION

DOT Name	Domestic Shipments: Not Regulated
DOT Technical Name	
DOT Hazard Class	
UN Number	
DOT Packing Group	PG
RQ	
Marine Pollutant	yes
DOT Special Information	International Shipments: UN 3082, Environmentally Hazardous Substance, Liquid, NOS (2-Ethylhexyl mercaptoacetate), 9, PG III, Marine Pollutant

15 REGULATORY INFORMATION

Hazard Categories Under Criteria of SARA Title III Rules (40 CFR Part 370)

Immediate (Acute) Health	Y	Fire	N
Delayed (Chronic) Health	N	Reactive	N
		Sudden Release of Pressure	N

The components of this product are all on the TSCA Inventory list.

Ingredient Related Regulatory Information:

SARA Reportable Quantities	CERCLA RQ	SARA TPQ
2-Ethylhexyl mercaptoacetate	NE	

16 OTHER INFORMATION



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Revision Information

Revision Date 14 DEC 2007 Revision Number 10
Supercedes Revision Dated 18-SEP-2007

Revision Summary

Revised section 14

Key

NE= Not Established NA= Not Applicable (R) = Registered Trademark

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