

Material Safety Data Sheet Ethyl Thiocyanate, 99% (GC)

MSDS# 76469

Company Identification:

Section 1 - Chemical Product and Company Identification

MSDS Name: Ethyl Thiocyanate, 99% (GC)

Catalog Numbers: AC410440000, AC410440250, AC410441000

Synonyms: Ethyl Rhodanate; Ethyl Sulfocyanate.

Acros Organics BVBA

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

Acros Organics

201-796-7100

Company Identification: (USA)

One Reagent Lane

Fair Lawn, NJ 07410

For information in the US, call:

For information in Europe, call:

Emergency Number, Europe:

800-ACROS-01

+32 14 57 52 11

Emergency Number, Europe:

+32 14 57 52 99

CHEMTREC Phone Number, US: 800-424-9300 CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

Emergency Number US:

CAS#: 542-90-5

Chemical Name: Ethyl Thiocyanate

%: 99

EINECS#: 208-833-3

Hazard Symbols: XN



Risk Phrases: 10 20/21/22

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Flammable liquid and vapor. Moisture sensitive. May cause central nervous system depression. Stench. May cause eye, skin, and respiratory tract irritation. Target Organs: Central nervous system.

Potential Health Effects

Eve: May cause eye irritation. Lachrymator (substance which increases the flow of tears). May cause chemical

conjunctivitis and corneal damage.

Skin: May cause irritation and dermatitis. May cause cyanosis of the extremities.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this

substance have not been fully investigated. Ingestion of large amounts may cause CNS depression.

Inhalation: The toxicological properties of this substance have not been fully investigated. Aspiration may lead to pulmonary

edema. Vapors may cause dizziness or suffocation. May cause burning sensation in the chest.

Chronic: No information found.

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower evelids. Get Eyes:

medical aid. Do NOT allow victim to rub eyes or keep eyes closed.

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated Skin:

clothing and shoes. Wash clothing before reuse.

Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk Ingestion:

or water.

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If Inhalation:

breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. During a fire, irritating and highly toxic gases may be generated by

General Information: thermal decomposition or combustion. Will burn if involved in a fire. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Flammable liquid and vapor. Vapors may be

heavier than air. They can spread along the ground and collect in low or confined areas.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT get water inside containers. Do NOT use straight streams of water.

Autoignition Temperature: Not available

Flash Point: 22 deg C (71.60 deg F)

Explosion Not available Limits: Lower:

Explosion Not available Limits: Upper:

NFPA Rating: health: 2; flammability: 3; instability: 0;

Section 6 - Accidental Release Measures

General

Use proper personal protective equipment as indicated in Section 8. Information:

Spills/Leaks:

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. Do not get water inside containers. A vapor suppressing foam may be used to reduce vapors.

Section 7 - Handling and Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or Handling: vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not allow contact with water. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Keep from contact with moist air and steam.

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container.

Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Store protected Storage: from moisture.

Section 8 - Exposure Controls, Personal Protection

+ Chemical Name	+ ACGIH	+	++ OSHA - Final PELs
Ethyl Thiocyanate	none listed	none listed	none listed

OSHA Vacated PELs: Ethyl Thiocyanate: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use

adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Exposure Limits

Personal Protective Equipment

Eyes: 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: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or

European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: pale-yellow

Odor: stench

pH: Not available

Vapor Pressure: Not available

Vapor Density: 3.01

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 138 deg C (280.40°F)

Freezing/Melting Point: Not available Decomposition Temperature: Not available

Solubility in water: Not available Specific Gravity/Density: 1.0100g/cm3

Molecular Formula: C3H5NS Molecular Weight: 87.15

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, ignition sources, moisture, excess heat, strong oxidants.

Incompatibilities with Other

Materials Strong oxidizing agents, strong acids, strong bases, moisture.

Carbon monoxide, oxides of nitrogen, oxides of sulfur, oxides of sulfur, carbon

Hazardous Decomposition Products dioxide.

Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 542-90-5: XK9900000

LD50/LC50: RTECS: Not available.

Carcinogenicity: Ethyl Thiocyanate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: FLAMMABLE LIQUIDS, TOXIC, N.O.S.

Hazard Class: 3

UN Number: UN1992 Packing Group: III Canada TDG

Shipping Name: Not available

Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 10 Flammable

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Safety Phrases:

S 9 Keep container in a well-ventilated place.

S 16 Keep away from sources of ignition - No smoking.

S 24/25 Avoid contact with skin and eyes.

S 28A After contact with skin, wash immediately with plenty of water.

S 33 Take precautionary measures against static discharges.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 542-90-5: Not available

Canada

CAS# 542-90-5 is listed on Canada's NDSL List

Canadian WHMIS Classifications: B2, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 542-90-5 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 542-90-5 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 7/07/1999 Revision #5 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
