

SAFETY DATA SHEET



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DIETHYLENE GLYCOL MONOETHYL ETHER ACETATE SDS No. M0072

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Diethylene Glycol Monoethyl Ether Acetate

Synonyms: 2-(2-Ethoxyethoxy)ethyl Acetate, Ethyldiglycolacetate, Carbitol acetate

Recommended Use: This product is recommended for laboratory and manufacturing use only. It is not recommended for drug, food or household use.

2. HAZARDS IDENTIFICATION



Classification:

Eye Irritation: GHS Category 2A

Label Elements

Signal Word: WARNING!

Hazard Statements:

H319 – Causes serious eye irritation.

Precautionary Statements:

P264 – Wash thoroughly after handling.

P280 – Use personal eye protection and face protection.

P303+P361+P353 – If on skin or hair: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

Emergency Overview

Cause eye, skin, and respiratory tract irritation. May form explosive peroxides. Target Organs: Kidneys, central nervous system, respiratory system, eyes, and skin.

HMIS Rating:

Health – 2* Flammability – 1 Physical Hazard – 0 PPE – User supplied

NOTE: HMIS ratings use a numbering scale that ranges from 0 - 4 to indicate the degree of hazard. A value of zero means the chemical presents no hazard while a value of four indicates a high hazard. These ratings are based on the inherent properties of this chemical under expected conditions of normal use and are not intended to be used in emergency situations. PPE is determined by the user based on their needs and conditions.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS No</u>	<u>Percent</u>	<u>Hazardous</u>
Diethylene Glycol Monoethyl Ether Acetate	112-15-2	>99%	Yes

4. FIRST-AID MEASURES

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Ingestion: Do not induce vomiting and get medical advice.

Skin Contact: Remove any contaminated clothing. Flush skin with water for at least 15 minutes. Clean clothes and shoes before reusing.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

Notes to Physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flammability: Not expected to be a fire hazard.

Auto-ignition Temperature: 310° C (590° F)

Flash Point: 100° C (212° F)

Flammable Limits: Lower Limit – 1.5%; Upper Limit – Not available.

Products of Combustion: May decompose into irritating and toxic gases under fire conditions (carbon monoxide, carbon dioxide, peroxides).

Specific Fire Hazards: As in any fire, always wear self-contained breathing apparatus in pressure-demand (MSA/NIOSH approved or equivalent), and full protective gear. Not considered to be a fire hazard. As with most organic substances, fire is possible at elevated temperatures or by contact with an ignition source. Contact with strong oxidizers may cause fire.

Fire Fighting Media: In case of fire, use alcohol-resistant foam, dry chemical, or carbon dioxide. Water may be ineffective.

National Fire Protective Association: Health - 2, Flammability - 1, Reactivity - 2

NOTE: NFPA ratings use a numbering scale that ranges from 0 - 4 to indicate the degree of hazard. A value of zero means the chemical presents no hazard while a value of four indicates a high hazard. They are for use by emergency personnel to address the hazards that are presented by short term, acute exposure to this product under fire, spill, or similar emergencies. Ratings involve data and interpretations that may vary from company to company.

6. ACCIDENTAL RELEASE MEASURES

Absorb spilled liquid with sorbent pads, socks, or other inert material such as vermiculite, sand, or earth. Use spark-proof tools. Provide ventilation to the affected area and remove all ignition sources. Approach the spill from upwind and pick up absorbed material and place it in a suitable container. Always use proper personal protective equipment as described in section 8.

7. HANDLING AND STORAGE

Precautions: Always use proper personal protective equipment as described in section 8. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Remove contaminated clothing and wash before reuse. Ground or bond containers before transferring material. Empty containers contain product residue (liquid and vapor) and can be dangerous. Use with adequate ventilation. Avoid breathing vapor or mist.

Storage: Store away from ignition sources. Keep in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Containers should be dated when opened and tested periodically for the presence of peroxides. Should crystals form in a peroxidizable liquid, peroxidation may have occurred and the product should be considered extremely dangerous. In this instance, the container should only be opened remotely by professionals. May form explosive peroxides on prolonged storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or using the material should be equipped with eyewash station and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protection: Wear protective chemical goggles or other appropriate eye protection. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever possible. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Exposure Limits: None established

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State and Appearance: Colorless liquid.

Odor: Acetic odor

Molecular Formula: $\text{CH}_3\text{CO}_2(\text{CH}_2\text{CH}_2\text{O})_2\text{C}_2\text{H}_5$

Molecular Weight: 176.21

Auto-ignition Temperature: 310° C (590° F)

Flash Point: 100° C (212° F)

Flammable Limits: Lower Limit – 1.5%; Upper Limit – Not available.

pH: Not available

Boiling Point: 210-220° C (473° F)

Freezing/Melting Point: -25° C (-26° F)

Decomposition Temperature: Not available.

Specific Gravity: 1.01 g/cm³

Vapor Density (Air=1): 6.08

Vapor Pressure: 0.3 hPa at 20° C

Evaporation Rate (Butyl acetate = 1): < 0.0.

Viscosity: 2.8 MPA at 20° C.

Solubility: Soluble

10. STABILITY AND REACTIVITY

Stability: May form explosive peroxides.

Conditions to Avoid: Excess heat, ignition sources, incompatibles, exposure to air, direct sunlight.

Incompatibility With Various Substances: Strong oxidizers, strong bases.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, peroxides.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, skin absorption, skin contact

Acute Exposure Hazards:

INHALATION HAZARD: Causes respiratory tract irritation. May be harmful if inhaled.

INGESTION HAZARD: May cause irritation of the digestive tract. May be harmful if swallowed. May cause central nervous system effects.

SKIN CONTACT HAZARD: Causes skin irritation. May be harmful if absorbed through the skin.

EYE CONTACT HAZARD: Causes eye irritation and possible redness.

Chronic Exposure Hazards: May cause kidney damage.

Animal Toxicity:

Draize test, rabbit, eye: 500 mg Moderate;

Oral, rabbit: LD50 = 4400 mg/kg;

Oral, rat: LD50 = 11 gm/kg;

Skin, rabbit: LD50 = 15100 uL/kg;

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

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

Other Studies: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available.

Environmental Fate: Do not empty into drains.

13. DISPOSAL CONSIDERATIONS

Material that cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of this product may change the waste management options. Waste generators must decide if discarded material is a hazardous waste. State and local disposal regulations may differ from federal disposal definitions found in 40 CFR 261.3. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

Not regulated for transportation.

15. REGULATORY INFORMATION

US Federal Regulations:

CERCLA Hazardous Substances: CAS# 112-15-2: Not listed

SARA Section 302: Does not have a TPQ

SARA Codes: CAS# 112-15-2 – reactive

Section 313: Diethylene glycol monoethyl ether acetate (CAS# 112-15-2), reported as glycol ethers, is subject to SARA Title III Section 313 40 CFR 373 reporting requirements.

OSHA: Not considered highly hazardous by OSHA.

US State Regulations:

CAS# 112-15-2 is on the following state right-to-know lists: New Jersey and Pennsylvania (listed as glycol ethers).

California Prop. 65: This product contains no chemicals known to the state of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Originally Prepared: 6/30/2006

Last Revised: 7/7/2016 – Hazard information in Section 2 and Regulatory Information in Section 15 has been updated.

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