

Safety Data Sheet

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1. IDENTIFICATION

Product: 2-Ethoxyethylacetate in Polyether Polyol P/N: 952524.901, 952528.901, 952532.901, 952540.901.	MSDS #: 901153.001
Product Use: For laboratory use only.	Date: Rev B, November 14, 2013

2. HAZARDS IDENTIFICATION:

Classification & labeling according to GHS and Table 3.1 Annex VI of regulation 1272/2008/EU, as amended:
 Classification: Hazard Class and Category: Flammable liquid, Category 3; Flammable liquid and vapour; Reproductive toxicity, Category 1B: May damage fertility. May damage the unborn child; Acute toxicity, Category 4 * : Harmful if inhaled, if swallowed, or in contact with skin.



GHS/CLP Label Elements: Pictogram(s):  Signal Word(s): Danger; Hazard statement(s): Flammable liquid and vapour. May damage fertility. May damage the unborn child. Harmful if inhaled, if swallowed or in contact with skin. Precautionary statements(s): Avoid breathing vapours or skin contact.. Wear proper personal protective equipment. Keep away from heat and other sources of ignition.

The small quantities supplied in our products are unlikely to cause severe or immediate health effects. Use only as directed and in accordance with safe laboratory practices.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

CHEMICAL INGREDIENT NAME	CAS NUMBER	EC NUMBER	% by Weight	EXPOSURE LIMITS		
				OSHA	ACGIH	EU IOELV
2-Ethoxyethylacetate	111-15-9	203-839-2	2-98*	100 ppm (skin)	5 ppm (skin)	11 mg/m ³ , 2 ppm; (skin)
Polyether Polyol	31568-06-6	608-639-2	2-98*	NA	NA	NA

Notes: * PN 952524.901 contains 98%/2% polyether polyol/2-ethoxyethylacetate; PN 952529.901 contains 50%/50% polyether polyol/2-ethoxyethylacetate; PN 952532.901 contains 2%/98% polyether polyol/2-ethoxyethylacetate. Products are liquid mixtures in varying concentration ranges, provided in 1 ml quantities and used for verification of mass loss in thermogravimetric instruments. Exposure Limits are 8-Hour TWA. (Time Weighted Average) unless designated C (Ceiling) or STEL (Short Term Exposure Limit). Skin notation means compound can be absorbed through the skin.

4. FIRST AID MEASURES:

Inhalation: Remove to fresh air.
 Skin Contact: Flush with water.
 Eye Contact: Immediately flush with water for a minimum of 15 minutes.
 Ingestion: Get medical attention.

After following first aid measures, seek medical attention.

5. FIRE-FIGHTING MEASURES:

Flammable Properties: Flammable liquid.
 Extinguishing Media: Dry chemical, carbon dioxide or appropriate foam.
 Unique Aspects Contributing To a Fire: None.
 Special Fire Fighting Procedures: None.
 Note: As in any fire, wear self-contained breathing apparatus, and full protective gear.

6. ACCIDENTAL RELEASE MEASURES: Due to small quantities involved, spills or leaks should not pose a significant problem. Absorb liquid with spill pillow or other absorbent. Place wastes into closed containers for proper disposal.

7. HANDLING AND STORAGE: Handle as directed and in accordance with safe laboratory practices.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Handle in accordance with safe laboratory practices.

Respiratory Protection: Not normally needed. If exposure limits are exceeded, use approved organic vapor cartridge respirator.
 Eye Protection: Safety glasses with side protection.
 Skin Protection: Neoprene, butyl rubber or other chemical resistant gloves. Disposable nitrile are acceptable for light intermittent exposure.
 Engineering Controls: Work in a fume hood or use general or other local exhaust ventilation to meet Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Clear liquid

Physical State: Liquid	Flash Point: 126°F (54°C)	Vapor Pressure: 2mm HG @ 20°C
Odor: Mild	Explosion Limits: 1.7% - 13%	Vapor Density (air=1): 4.6 g/L
pH: NA	Boiling Point: 312 °F (156°C)	Solubility in Water: Soluble
Specific Gravity: 0.97 g/ml	Melting Point: -80° F (-61°C)	Other: NA

10. STABILITY AND REACTIVITY:

Hazardous Polymerization Will Not Occur May Occur
 Stability: Stable

<u>Hazardous Decomposition/Combustion Products:</u> Oxides of carbon.	<u>Conditions & Materials to Avoid:</u> Heat, strong oxidizing agents.
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11. TOXICOLOGICAL INFORMATION:

Primary Route(s) of Exposure under Normal Use: Inhalation, Skin contact.

Target Organ(s): Central nervous system, kidney, lungs, reproductive system, testes.

Acute Effects: May cause dizziness, drowsiness, headache. Mildly irritating to eyes. May defat the skin.

Oral, rat: LD50= 2700 mg/kg; Inhalation, rabbit: TCLo: 100 ppm/6H (6-18D preg) fetotoxicity; LC50 Inhalation - rat - 8 h - 12,100 mg/m3

Chronic Effects: Toxic for reproduction. A developmental male toxin. May cause congenital malformation in the fetus. At high exposures may have effects on the blood, resulting in lesions of blood cells, anaemia and kidney impairment.

Other Information: Chemical Ingredient(s) not classified as carcinogen(s) by OSHA, IARC, NTP, ACGIH, or California. Warning, this product contains a chemical (2-ethoxyethylacetate) known to the state of California to cause birth defects or other reproductive harm.

12. ECOLOGICAL INFORMATION: The substance is harmful to aquatic organisms. Toxicity to daphnia and other aquatic invertebrates. EC50 - Daphnia magna (Water flea) - 193.6 mg/l - 48 h.

13. DISPOSAL CONSIDERATIONS: Consult state, local or national regulations for proper disposal. The U.S. Environmental Protection Agency (EPA) classifies unused product as hazardous waste.

14. TRANSPORT INFORMATION:

IATA/ICAO: Shipping Name: Ethylene glycol monoethyl ether acetate Hazard Class: 3 UN/NA #: UN 1172 Packing Group #: III	IMDG: Same as IATA EMS-No: F-E, S-D ADR: Same as IATA
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15. REGULATORY INFORMATION:

U.S. TOSCA: TSCA Flag S [Substance is identified in a proposed or final SNUR (Significant New Use Rule).

EU REACH: This product contains a substance (2-Ethoxyethylacetate) listed by the European Chemicals Agency as a Substance of Very High Concern (SVHC): toxic for reproduction.

Canada: This product has been classified according to the hazard criteria of the Controlled Product Registration (CPR) and this SDS contains all the information required by the CPR.

16. OTHER INFORMATION:

<u>U.S. EPA</u>	National Fire Protection Association Rating		
<u>SARA 313 Chemicals</u>	<u>CERCLA RQ</u>	4=Severe Hazard	HEALTH 2
None	NA	3=Serious Hazard	FLAMMABILITY 2
		2=Moderate Hazard	REACTIVITY 0
		1=Slight Hazard	OTHER
		0=Minimal Hazard	

Notes, abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 EC: European Commission
 EU IOELV: European Union Indicative Occupational Exposure Limit Values
 EU REACH: European Union Registration, Evaluation, Authorization & Restriction of Chemicals

GHS: Globally Harmonized System of Classification and Labeling of Chemicals
 IATA: International Air Transport Association
 IMDG: International Maritime Code for Dangerous Goods
 NA: Not Available.
 OSHA: Occupational Safety and Health Administration

For laboratory use only. Not for drug, household or other uses.

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