

Material Safety Data Sheet

Acrylic Polymer Composition

1. Product and company identification

Product name	Acrylic Polymer Composition	In case of emergency	1-800-843-6174
Code	R464	Validation date	9/16/2009.
Material uses	Acrylic composition	Responsible name	Regulatory Affairs Department
Manufacturer	Essential Industries, Inc. P.O. Box 12 Merton, WI 53056-0012 Phone: 262-538-1122		

2. Hazards identification

Potential acute health effects due to overexposure

Inhalation	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Skin	No known significant effects or critical hazards.
Eyes	No known significant effects or critical hazards.

Hazardous Material Information System (U.S.A.)

Health	*	1	HAZARD RATING 4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant
Flammability		0	
Physical hazards		0	
Personal protection		B	

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

3. Composition/information on ingredients

Name	CAS number	%
(2-methoxymethylethoxy)propanol	34590-94-8	1 - 5
2-(2-ethoxyethoxy)ethanol	111-90-0	1 - 5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eye contact	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation	Move exposed person to fresh air. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Ingestion	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.
Notes to physician	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Flammability of the product	In a fire or if heated, a pressure increase will occur and the container may burst.
Extinguishing media	
Suitable	Use an extinguishing agent suitable for the surrounding fire.
Special exposure hazards	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up	
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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6. Accidental release measures

Large spill Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

Handling Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Ingredient	Exposure limits
(2-methoxymethylethoxy)propanol	ACGIH TLV (United States, 1/2008). Absorbed through skin. TWA: 100 ppm 8 hour(s). STEL: 150 ppm 15 minute(s). NIOSH REL (United States, 12/2001). Absorbed through skin. TWA: 100 ppm 10 hour(s). STEL: 150 ppm 15 minute(s). OSHA PEL (United States, 11/2006). Absorbed through skin. TWA: 100 ppm 8 hour(s).
2-(2-ethoxyethoxy)ethanol	AIHA WEEL (United States, 1/2008). TWA: 25 ppm 8 hour(s).

Engineering measures No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory None required. However, use of adequate ventilation is good industrial practice.

Hands Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

9. Physical and chemical properties

Physical state	Liquid	Boiling/condensation point	100°C (212°F)
Color	Milky White	Melting/freezing point	0°C (32°F)
Odor	Bland	Vapor pressure	<4 kPa (<30 mm Hg)
VOC	4.6%	Vapor density	<1 [Air = 1]
pH	8.2		
Specific Gravity:	1.05 gm/ml		

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10 . Stability and reactivity

Chemical stability	The product is stable.
Hazardous polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	No specific data.
Materials to avoid	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides

11 . Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
(2-methoxymethylethoxy)propanol	LD50 Oral	Rat	5.5 ml/kg	-
2-(2-ethoxyethoxy)ethanol	LD50 Oral	Rat	7500 mg/kg	-
	LD50 Oral	Rat	5500 uL/kg	-
	LC50 Inhalation Vapor	Rat	>5240 mg/m3	4 hours

Conclusion/Summary Not available

Chronic toxicity

Conclusion/Summary Not available

Potential chronic health effects due to overexposure

Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

12 . Ecological information

Environmental effects No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
2-(2-ethoxyethoxy)ethanol	-	Acute LC50 21400000 to 23900000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 0.44 g	96 hours
	-	Acute LC50 20800000 to 27500000 ug/L Fresh water	Fish - Goldfish - Carassius auratus - 0.92 g	96 hours
	-	Acute LC50 15200000 to 18700000 ug/L Fresh water	Fish - Western mosquitofish - Gambusia affinis - 0.23 g	96 hours
	-	Acute LC50 13900000 to 16700000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 1.44 g	96 hours
	-	Acute LC50 13400000 to 15700000 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 0.68 g	96 hours
	-	Acute LC50 12900000 to 15000000 ug/L Fresh water	Fish - Western mosquitofish - Gambusia affinis - 0.25 g	96 hours
	-	Acute LC50 >10000000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 33 to 75 mm	96 hours
	-	Acute LC50 9650000 to 11800000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 0.35 g	96 hours
	-	Acute LC50 6010000 to 8080000 ug/L Fresh water	Fish - Channel catfish - Ictalurus punctatus - 0.72 g	96 hours
	-	Acute LC50 4670000 to 6010000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - 0 to 24 hours	48 hours
	-	Acute LC50 3340000 to 5280000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - 0 to 24 hours	48 hours

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12 . Ecological information

Conclusion/Summary Not available

Biodegradability

Conclusion/Summary Not available

13 . Disposal considerations

Waste disposal Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14 . Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated	-	-	-		-
IMDG Class	Not regulated	-	-	-		-
IATA-DGR Class	Not regulated	-	-	-		-

PG* : Packing group

15 . Regulatory information

HCS Classification Target organ effects

SARA 313

Product name

CAS number

Concentration

Form R - Reporting requirements 2-(2-ethoxyethoxy)ethanol

111-90-0

4.4678

Supplier notification 2-(2-ethoxyethoxy)ethanol

111-90-0

4.4678

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

United States inventory (TSCA 8b) Not determined.

16 . Other information

Date of issue 9/16/2009.

Date of previous issue No previous validation.

Version 0.01

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.