

SAFETY DATA SHEET – RIGID GROUT A

SECTION 1. IDENTIFICATION

Product Identifier	Rigid Grout A
Other Means of Identification	Hydrophobic polyurethane grout
Recommended Use	Professional use only
Restrictions on Use	None known
Supplier Identifier	Multiurethanes Ltd. 5245 Creekbank Rd Mississauga, ON L4W 1N3 Canada
Emergency Telephone Number	1-800-663-6633

SECTION 2. HAZARD IDENTIFICATION

Classification

Serious Eye Damage/Eye Irritation Category 2A

Label Elements

Hazard Pictogram



Signal Word WARNING

Hazard Statement Causes serious eye irritation.

Precautionary Statements
Prevention
Wear appropriate protective equipment.
Wash hands thoroughly after handling.

Response
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue

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rinsing. If irritation persists, seek medical attention.

Storage

Keep container tightly closed and sealed until ready for use. Store in original container protected from sunlight in a dry, cool and well-ventilated area. Keep away from incompatibles.

Disposal

Dispose of material in accordance with all applicable federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the sole responsibility of the waste generator.

Other Hazards None known

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration (% by weight)</u>	<u>Common Names / Synonyms</u>	<u>Other Identifiers</u>
2,2' -Oxybisethanol	111-46-6	≥ 10 - ≤ 17%	Not available	Not available
Ethenediol	107-21-1	≥ 3 - ≤ 5%	Not available	Not available

Notes

Any concentration shown as a range is to protect confidentiality or is due to batch variation. 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.

SECTION 4. FIRST-AID MEASURES

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Seek medical attention if adverse health effects persist or are severe. If necessary, call a poison centre or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Skin Contact	Flush contaminated skin with plenty of water. Seek medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Seek medical attention.
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Seek medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most Important Symptoms and Effects, Acute and Delayed	Causes serious eye irritation. Over-exposure symptoms may include pain, irritation, watering and redness.
Indication of Immediate Medical Attention and Special Treatment Needed	Treat symptomatically. If exposed or concerned, seek medical advice and attention.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media Use dry chemical or CO₂. Water spray for large fires.

Unsuitable Extinguishing Media None known

Specific Hazards Arising from the Product

In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include carbon dioxide and carbon monoxide.

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Special Protective Equipment and Precautions for Firefighters	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. Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures	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. Do not breathe fume/mist/vapours. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Use appropriate personal protective equipment.
Methods and Material for Containment and Cleaning Up	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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
Notification Procedures	Not available
Environmental Precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	Put on appropriate personal protective equipment (refer to section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour 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. Good housekeeping is needed during storage, transfer, handling, and use of this material. Handle in accordance with good industrial hygiene and safety
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procedures. Always wash hands immediately after handling this product.

Conditions for Safe Storage (including incompatibilities)

Store in accordance with local regulations. Store in original container protected from sunlight in a dry, cool and well-ventilated area, away from incompatible materials (strong oxidizers, strong alkalis) 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.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters – Occupational Exposure Limits

Chemical Name	Type	Exposure Limit Values	Source
2,2' -Oxybisethanol	TWA	10 mg/m ³ 8 hours	AIHA WEEL (US, 10/2011)
Ethenediol	STEL	10 mg/m ³ 15 minutes (Form: Inhalable fraction. Aerosol only.) 50 ppm 15 minutes (Form: Vapour fraction)	ACGIH TLV (US, 03/2017)
Ethenediol	TWA	25 ppm 8 hours (Form: Vapour fraction)	ACGIH TLV (US, 03/2017)
Ethenediol	C	100 mg/m ³ (Form: Aerosol only)	Province of Ontario (Canada, 07/2015)
Ethenediol	C	100 mg/m ³ (Form: Aerosol)	Province of British Columbia (Canada, 07/2016)
Ethenediol	TWA	10 mg/m ³ 8 hours. (Form: Particulate)	Province of British Columbia (Canada, 07/2016)
Ethenediol	STEL	20 mg/m ³ 15 minutes (Form: Particulate)	Province of British Columbia (Canada, 07/2016)
Ethenediol	C	50 ppm (Form: Vapour)	Province of British Columbia (Canada, 07/2016)
Ethenediol	CEIL	100 mg/m ³ (Form: Aerosol)	Province of Saskatchewan (Canada, 07/2013)
Ethenediol	STEV	50 ppm 15 minutes (Form: Vapour and mist) 127 mg/m ³ 15 minutes (Form: Vapour and mist)	Province of Quebec (Canada, 01/2014)
Ethenediol	C	100 mg/m ³	Province of Alberta (Canada, 04/2009)

Appropriate Engineering Controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

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Individual Protection Measures

<u>Eye/Face Protection</u>	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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
<u>Skin Protection</u>	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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the cases of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. 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.
<u>Respiratory Protection</u>	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
<u>Hygiene Measures</u>	Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Ensure that eyewash stations and safety showers are in close proximity.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to light yellow liquid
Odour	Slight
Odour Threshold	Not available
pH	Not available

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Melting Point / Freezing Point	Not available
Initial Boiling Point and Boiling Range	Not available
Flash Point	Closed cup: > 93.3°C (> 199.9°F)
Evaporation Rate (BuAe = 1)	Not available
Flammability (solid, gas)	Not available
Upper/Lower Flammability or Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.04 to 1.05
Solubility in Water	Slightly soluble in water.
Solubility (other)	Not available
Partition Coefficient, n-octanol / water (logKow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Dynamic (room temperature): 185 to 235 mPa·s (185 to 235 cP)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability	This product is stable.
Possibility of Hazardous Reactions	None under normal conditions.

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Conditions to Avoid	No specific data.
Incompatible Materials	Strong oxidizers, strong alkalis.
Hazardous Decomposition Products	By heat and fire: carbon monoxide, carbon dioxide, oxides of nitrogen.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

<u>Inhalation</u>	Yes
<u>Skin Contact</u>	Yes
<u>Eye Contact</u>	Yes
<u>Ingestion</u>	Yes

Signs and Symptoms of Exposure

<i>Inhalation</i>	No known significant effects or critical hazards.
<i>Skin Contact</i>	No known significant effects or critical hazards.
<i>Eye Contact</i>	Causes serious eye irritation. Over-exposure symptoms may include pain, irritation, watering, and redness.
<i>Ingestion</i>	No known significant effects or critical hazards.

Potential Chronic Health Effects

No data available

Acute Toxicity

Oral - ATE value = 3539.2 mg/kg

Skin Corrosion/Irritation

2,2' -Oxybisethanol
Mild irritant (72 hours 112 mg intermittent exposure, human)
Mild irritant (500 mg exposure, rabbit)

Ethanediol
Mild irritant (555 mg exposure, rabbit)

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Serious Eye Damage/Irritation	<i>2,2' -Oxybisethanol</i> Mild irritant (50 mg exposure, rabbit)
	<i>Ethanediol</i> Mild irritant (24 hours 500 mg exposure, rabbit) Mild irritant (1 hour 100 mg exposure, rabbit) Moderate irritant (6 hours 1440 mg exposure, rabbit)
Specific Target Organ Toxicity - Single Exposure	No data available
Specific Target Organ Toxicity - Repeated Exposure	No data available
Aspiration Hazard	No data available
Respiratory and/or Skin Sensitization	No data available
Reproductive Toxicity	No data available
Germ Cell Mutagenicity	No data available
Carcinogenicity	No data available

Toxicological Data

<u>Chemical Name</u>	<u>LC50</u>	<u>LD50</u>
2,2' -Oxybisethanol	Not available	11890 mg/kg (dermal, rabbit) 12000 mg/kg (oral, rat)
Ethanediol	Not available	4700 mg/kg (oral, rat)

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Not available

Persistence and Degradability Not available

Bioaccumulative Potential

<u>Chemical Name</u>	<u>LogP_{ow}</u>	<u>BCF</u>	<u>Potential</u>
2,2' -Oxybisethanol	-1.98	100	Low
Ethanediol	-1.36	-	Low

Mobility in Soil Not available

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Other Adverse Effects No known significant effects or critical hazards.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14. TRANSPORT INFORMATION

<u>Regulation</u>	<u>UN No.</u>	<u>Proper Shipping Name</u>	<u>Technical Name (for N.O.S. entry)</u>	<u>Transport Hazard Class(es)</u>	<u>Packing Group</u>
TDG	None	Not regulated	Not regulated	Not regulated	Not regulated
49 CFR/DOT	None	Not regulated	Not regulated	Not regulated	Not regulated
IMDG	None	Not regulated	Not regulated	Not regulated	Not regulated
ICAO/IATA	None	Not regulated	Not regulated	Not regulated	Not regulated

Special Precautions For transport within the user’s premises, always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Environmental Hazards Refer to section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available

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SECTION 15. REGULATORY INFORMATION

Canadian Information

<u>WHMIS</u>	Refer to section 2.
<u>NPRI</u>	The following components are listed: Ethanediol
<u>CEPA Toxic substances</u>	None of the components are listed.
<u>Canada inventory (DSL/NDSL)</u>	All components are listed or exempted.

US Information

<u>TSCA</u>	4(a) final test rules: Acetaldehyde 5(a)2 final significant new use rules: 2-Methoxyethanol 8(a) PAIR: Octamethylcyclotetrasiloxane; Decamethylcyclopentasiloxane; Dodecamethylcyclohexasiloxane; Acetaldehyde 8(a) CDR Exempt/Partial exemption: Not determined 8(b) US inventory: All components are listed or exempted.
<u>Clean Water Act (CWA) 311</u>	Acetaldehyde
<u>Clean Air Act</u>	Section 112 (b) Hazardous Air Pollutants (HAPs): Listed
<u>SARA Title III - Section 311/312 - Hazard Chemical Inventory</u>	Classification: Immediate (acute) health hazard Composition/Information on Ingredients: <i>2,2' -Oxybisethanol</i> Immediate (acute) health hazard <i>Ethanediol</i> Immediate (acute) health hazard

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SARA Title III -
Section 313 – Toxic
Chemical

Form R – Reporting Requirements:

Ethanediol (CAS #107-21-1)

Supplier Notification:

Ethanediol (CAS #107-21-1)

State Regulations

Ethanediol is a listed component in Massachusetts, New York, New Jersey, and Pennsylvania.

2,2' -Oxybisethanol is a listed component in Pennsylvania.

California Prop. 65 – WARNING: This product can expose you to chemicals including 1,4-Dioxane, Acetaldehyde, which are known to the State of California to cause cancer, and Ethylene Glycol, Ethylene glycol monomethyl ether, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ethanediol – Cancer (no); Reproductive (yes); Maximum acceptable dosage level (yes)

1,4-Dioxane – Cancer (yes); Reproductive (no); No significant risk level (yes)

2-Methoxyethanol – Cancer (no); Reproductive (yes); Maximum acceptable dosage level (yes)

Acetaldehyde – Cancer (yes); Reproductive (no); No significant risk level (yes)

International Information Not available

SECTION 16. OTHER INFORMATION

Date of Latest Revision September 13, 2018

Disclaimer The information provided in this document is correct to the best of our knowledge, information and belief at the date of its publication. This information is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition. This information is designed only as a general guidance and is not to be considered a warranty or quality specification. This information relates only to the specific material designated

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and may not be valid for such material used in combination with any other materials or in any process, unless specified above.

END OF SAFETY DATA SHEET