SAFETY DATA SHEET – RIGID GROUT A

SECTION 1. IDENTIFICATION

Product Identifier	Rigid Grout A
Other Means of Identification	Rigid Grout
Recommended Use	One component of a dual-component polyurethane grout used to stabilize water-bearing soils and fill open voids.
Restrictions on Use	Professional use only
Supplier Identifier	Multiurethanes Ltd. 5245 Creekbank Rd, Mississauga, ON L4W 1N3 (Canada)
Emergency Telephone Number	1-800-663-6633

SECTION 2. HAZARD IDENTIFICATION

Classification

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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 rinsing. If irritation persists, seek medical attention.

Storage
Not applicable

Disposal
Not applicable

Other Hazards

None known

SAFETY DATA SHEET – RIGID GROUT A

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical Name	CAS No.	Concentration (% by weight)	Common Names / Synonyms	Other Identifiers
2,2' -Oxybisethanol	111-46-6	5 – 10%	Not available	Not available
Ethanediol	107-21-1	1 – 5%	Not available	Not available

Notes

The exact percentage (concentration) in the composition has been withheld as a trade secret following the amended HPR as of April 2018 (Canada) and with paragraph (i) of §1910.1200. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

SECTION 4. FIRST-AID MEASURES

Inhalation

Remove the victim to fresh air and keep them at rest comfortably 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.

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 the victim to fresh air and keep them at rest comfortably for breathing. If the 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 medical personnel instruct it. 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. Adverse symptoms may include pain, irritation, watering, and redness.

Indication of Immediate Medical Attention and Special Treatment Needed

Treat symptomatically. Contact a poison treatment specialist immediately if large quantities have been ingested or inhaled. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media	Suitable Extinguishing Media Use an extinguishing agent suitable for the surrounding fire. Unsuitable Extinguishing Media None known
Specific Hazards Arising from the Product	If the container is ignited or heated, a pressure increase will occur, and it may burst. Decomposition products may include carbon dioxide and carbon monoxide.
Special Protective Equipment and Precautions for Firefighters	If there is a fire, promptly isolate the scene by removing all persons from the vicinity of the incident. 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 facepiece in positive pressure mode.

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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear an appropriate respirator when ventilation is inadequate. Use appropriate personal protective equipment.
Methods and Material for Containment and Cleaning Up	Small spill: Stop leak if without risk. Move containers from the spill area. Dilute with water and mop up if water-soluble. If water-insoluble, absorb it with an inert dry material and place it in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large spill: Stop leak if without risk. Move containers from the spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant and proceed as follows. Contain and collect spillage with non-combustible, absorbent material, e.g., sand, earth, vermiculite or diatomaceous earth and place it in a 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, 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).

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 it in the original container or an approved alternative made from a compatible material, and keep it tightly closed when not in use.

Empty containers retain product residue and can be hazardous. Do not reuse the container. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash their hands and face before eating, drinking, and smoking.

Conditions for Safe Storage (including incompatibilities)

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

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters – Occupational Exposure Limits

Chemical Name	Type	Exposure Limit Values	Source
2,2' -Oxybisethanol	TWA	10 mg/m³ 8 hours	AIHA WEEL (US, 07/2020)
Ethanediol	STEL	10 mg/m³ 15 minutes. Form: Inhalable fraction. Aerosol only.	ACGIH TLV (US, 03/2020)
Ethanediol	STEL	50 ppm 15 minutes. Form: Vapor fraction	ACGIH TLV (US, 03/2020), ON (CA, 06/2019)
Ethanediol	STEL	20 mg/m³ 15 minutes. Form: Particulate	BC (CA, 01/2020)
Ethanediol	TWA	25 ppm 8 hours. Form: Vapor fraction	ACGIH TLV (US, 03/2020), ON (CA, 06/2019)
Ethanediol	TWA	10 mg/m³ 8 hours. Form: Particulate	BC (CA, 01/2020)
Ethanediol	CEIL	100 mg/m³ Form: Aerosol	BC (CA, 01/2020), SK (CA, 07/2013)
Ethanediol	CEIL	10 mg/m³ Form: Inhalable particulate matter. Aerosol only.	ON (CA, 06/2019)
Ethanediol	CEIL	50 ppm Form: Vapour	BC (CA, 01/2020)
Ethanediol	STEV	50 ppm 15 minutes. Form: Vapour and mist 127 mg/m³ 15 minutes. Form: Vapour and mist	QC (CA, 07/2019)

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.

Individual Protection Measures

Eye/Face Protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates it is necessary to avoid exposure to liquid splashes, mists, gases, or dust. If contact is possible, the following protection should be worn unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin Protection

If a risk assessment indicates this is necessary, chemical-resistant, impervious gloves complying with an approved standard should always be worn when handling chemical products. Considering the parameters specified by the glove manufacturer, check that the gloves retain their protective properties during use. It should be noted that the time to breakthrough for any glove material may differ for different 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 and the risks

involved and approved by a specialist before handling this product. Appropriate footwear and additional skin protection measures should be chosen based on the task and the risks involved and approved by a specialist before handling this product.

Respiratory Protection
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 essential uses.

Hygiene Measures
Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, 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 it. Ensure that eyewash stations and safety showers are nearby.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to light yellow liquid (colour variations may occur)
Odour	Slight
Odour Threshold	Not available
pH	Not available
Melting Point / Freezing Point	Not available
Initial Boiling Point and Boiling Range	Not available
Flash Point	>93.3°C (>199.9°F) (closed cup method)
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	Not available
Solubility (other)	Not available
Partition Coefficient, n-octanol / water (logKow)	Not applicable
Auto-ignition Temperature	Not available

Decomposition Temperature	Not available
Viscosity	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity is available for this product or its ingredients.
Chemical Stability	Stable under recommended handling and storage conditions (refer to section 7).
Possibility of Hazardous Reactions	Under normal conditions, hazardous reactions will not occur.
Conditions to Avoid	No specific data.
Incompatible Materials	Reactive or incompatible with the following materials: oxidizing materials.
Hazardous Decomposition Products	Under normal conditions, hazardous decomposition products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological Data

Chemical Name	LC50	LD50
2,2' -Oxybisethanol	Not available	Dermal, rabbit: 11890 mg/kg Oral, rat: 12000 mg/kg
Ethanediol	Not available	Oral, rat: 4700 mg/kg

Acute Toxicity	Not available
Respiratory and/or Skin Sensitization	Not available
Skin Corrosion / Irritation	Not available
Serious Eye Damage / Irritation	Not available
Specific Target Organ Toxicity - Single Exposure	Not available
Specific Target Organ Toxicity - Repeated Exposure	Not available
Reproductive Toxicity	Not available
Germ Cell Mutagenicity	Not available
Aspiration Hazard	Not available
Information on Likely Routes of Exposure	Inhalation Yes

	Skin Contact Yes Eye Contact Yes Ingestion Yes
Signs and Symptoms of Exposure	Inhalation No known significant effects or critical hazards. Skin Contact No known significant effects or critical hazards. Eye Contact Causes serious eye irritation. Adverse symptoms may include pain, irritation, watering, and redness. Ingestion No known significant effects or critical hazards.
Potential Chronic Health Effects	No known significant effects or critical hazards.
Carcinogenicity	Not available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	Not available
Persistence and Degradability	Not available
Bioaccumulative Potential	Not available
Mobility in Soil	Not available
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 by-products should comply with 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 of untreated in 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 safely. Care should be taken when handling empty containers not cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material, runoff, and contact with soil, waterways, drains and sewers.

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SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group
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

Tariff Classification Number 3909.50.5000

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 during 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

SECTION 15. REGULATORY INFORMATION

Canadian Information

Canada inventory (DSL/NDSL)
All components are listed or exempted.

NPRI
The following components are listed: Ethanediol.

US Information

TSCA 4(a) final test rules
Octamethylcyclotetrasiloxane

TSCA 5(a)2 final significant new use rules
2-Methoxyethanol

TSCA 8(a) PAIR
Octamethylcyclotetrasiloxane; Acetaldehyde; Decamethylcyclopentasiloxane

TSCA 8(a) CDR Exempt/Partial exemption
Not determined

United States Inventory (TSCA 8b)
All components are active or exempted.

Clean Water Act (CWA) 307
Acetaldehyde; Formaldehyde

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)
Listed

Clean Air Act Section 602 Class I Substances; Clean Air Act Section 602 Class II Substances; DEA List I Chemicals (Precursor Chemicals); DEA List II Chemicals (Essential Chemicals)
Not listed

SARA 302/304
Formaldehyde
≤0.00001%
EHS = Yes
SARA 302 TPQ = 500 lbs; 73.9 gal
SARA 304 RQ = 100 lbs; 14.8 gal

SARA 311/312
Serious Eye Damage/Eye Irritation – Category 2A

2,2'-Oxybisthanol
Acute Toxicity (oral) – Category 4
Serious Eye Damage/Eye Irritation – Category 2B

Ethanediol
Acute Toxicity (oral) – Category 4
Serious Eye Damage/Eye Irritation – Category 2A

SARA 313
Form R – Reporting Requirements: Ethanediol (CAS #107-21-1; ≥3-≤5%)
Supplier Notification: Ethanediol (CAS #107-21-1; ≥3-≤5%)

State Regulations (MA, NY, NJ)
The following components are listed: Ethanediol

State Regulations (PA)
The following components are listed: 2,2'-Oxybisthanol, Ethanediol

State Regulation (California Prop. 65)
WARNING: This product can expose you to chemicals including 1,4-Dioxane, Acetaldehyde and Formaldehyde, which are known to the State of California to cause cancer, and Ethanediol and 2-Methoxyethanol, 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.

International Information

Chemical Weapon Convention List Schedules I, II & III Chemicals; Montreal Protocol; Stockholm Convention on Persistent Organic Pollutants; Rotterdam Convention on Prior Informed Consent (PIC); UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed

SECTION 16. OTHER INFORMATION

Date of Latest Revision July 4, 2024

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 general guidance and should not be considered a warranty or quality specification. This information relates only to the specific material designated. Unless specified above, it may not be valid for such material used in combination with other materials or in any process.

END OF SAFETY DATA SHEET