

SAFETY DATA SHEET – MME FLEXIBLE ACCELERATOR

SECTION 1. IDENTIFICATION

Product Identifier	MME Flexible Accelerator
Other Means of Identification	Accelerator for chemical 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**
Do not handle until all safety precautions have been read and understood.
Wear appropriate protective equipment.
Avoid breathing fume/mist/vapours.
Use only outdoors or in a well-ventilated area.
Wash hands thoroughly after handling.

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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. Get medical attention if adverse health effects persist or are severe. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin Contact	Flush contaminated skin with plenty of water. Get 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. Get 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. Get 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 following eye contact may include pain, irritation, watering, redness.
Indication of Immediate Medical Attention and Special Treatment Needed	Treat symptomatically. 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.

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SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media <u>Suitable Extinguishing Media</u>	Use an extinguishing agent suitable for the surrounding fire.
<u>Unsuitable Extinguishing Media</u>	None known
Specific Hazards Arising from the Product	No specific fire or explosion hazard. Decomposition products may include carbon dioxide, carbon monoxide, nitrogen oxides.
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.

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 get in eyes or on skin. 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 from contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

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(sewers, waterways, soil or air).

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Put on appropriate personal protective equipment (see 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 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 direct 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

<u>Chemical Name</u>	<u>Type</u>	<u>Exposure Limit Values</u>	<u>Source</u>
2,2'-Dimorpholinyl-diethyl ether	-	None	-

Appropriate Engineering Controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual Protection Measures

Eye/Face Protection

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.

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Skin Protection

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.

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 important aspects of use.

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to pale yellow amber liquid
Odour	Mild amine
Odour Threshold	Not available
pH	Not available
Melting Point / Freezing Point	Not available
Initial Boiling Point and Boiling Range	Not available
Flash Point	Closed cup: >93.33°C (>200°F) [Pensky-Martens.] EPA 1010

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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)	1.014 to 1.02
Solubility in Water	Not available
Solubility (other)	Not available
Partition Coefficient, n-octanol / water (logKow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Dynamic: 32 to 51 mPa·s (32 to 51 cP) @ 77°F

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability	The product is stable.
Possibility of Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to Avoid	Avoid extreme heat and direct sunlight.
Incompatible Materials	Oxidizing materials
Hazardous Decomposition Products	Carbon oxides and nitrogen oxides.

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SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological Data – Acute Toxicity

<u>Chemical Name</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>	<u>Exposure</u>
2,2'-Dimorpholinyl diethyl ether	Not available	-	-	-

Toxicological Data – Irritation/Corrosion

<u>Chemical Name</u>	<u>Result</u>	<u>Species</u>	<u>Score</u>	<u>Exposure</u>	<u>Observation</u>
2,2'-Dimorpholinyl diethyl ether	Not available	-	-	-	-

Respiratory and/or Skin Sensitization No data available

Reproductive Toxicity No data available

Germ Cell Mutagenicity No data available

Carcinogenicity No data available

Specific Target Organ Toxicity - Single Exposure No data available

Specific Target Organ Toxicity - Repeated Exposure No data available

Aspiration Hazard No data 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

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pain, irritation, watering, redness.

Ingestion

No known significant effects or critical hazards.

Potential Chronic Health Effects

No known significant effects or critical hazards.

Acute Toxicity

Not available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and Degradability

No data available

Bioaccumulative Potential

No data 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 any by-products should comply with the 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 of 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.

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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	Not regulated	-	-	-	-
49 CFR/DOT	Not regulated	-	-	-	-
IMDG	Not regulated	-	-	-	-
ICAO/IATA	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

SECTION 15. REGULATORY INFORMATION

Canadian Information

Canada inventory (DSL/NDSL) At least one component is not listed in DSL but all such components are listed in NDSL.

NPRI None of the components are listed.

CEPA Toxic Substances None of the components are listed.

US Information

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

Clean Water Act (CWA) 311 Not available

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) Not listed

Clean Air Act Section 602 Class I Substances Not listed

Clean Air Act Section 602 Class II Substances Not listed

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DEA List I Chemicals
(Precursor Chemicals) Not listed

DEA List II Chemicals
(Essential Chemicals) Not listed

SARA 302/304 No products were found

SARA 304 RQ Not applicable

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

<u>Chemical Name</u>	<u>Classification</u>
2,2'-Dimorpholinyl diethyl ether	Serious Eye Damage/Eye Irritation – Category 2A

SARA 313 No data available

State Regulation
(Massachusetts) None of the components are listed.

State Regulation (New York) None of the components are listed.

State Regulation (New
Jersey) None of the components are listed.

State Regulation
(Pennsylvania) None of the components are listed.

State Regulation (California
Prop. 65) This product does not require a Safe Harbor warning under California Prop. 65.

International Information Not available

SECTION 16. OTHER INFORMATION

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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 and may not be valid for such material used in combination

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with any other materials or in any process, unless specified above.

END OF SAFETY DATA SHEET