SAFETY DATA SHEET – MME FLEXIBLE ACCELERATOR

SECTION 1. IDENTIFICATION

Product Identifier	MME Flexible Accelerator
Other Means of Identification	Flex Accelerator; Flexible Accelerator
Recommended Use	Catalyst for accelerating the reaction time of MME Flexible Resin.
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

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical Name	CAS No.	Concentration (% by weight)	Common Names / Synonyms	Other Identifiers
2,2'-Dimorpholinyldiethyl ether	6425-39-4	45 – 70%	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. Symptoms may be delayed in the inhalation of decomposition products during a fire. The exposed person may need to be kept under medical surveillance for 48 hours.

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. 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. Symptoms may be delayed in the inhalation of decomposition products during a fire. The exposed person may

need to be kept under medical surveillance for 48 hours.

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	Decomposition products may include carbon dioxide, carbon monoxide, and nitrogen oxides.
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	Not available
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	<u>Eye/Face Protection</u> 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. <u>Skin Protection</u> 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. <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 essential uses. <u>Hygiene Measures</u> 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 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	>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)	1.014 to 1.02
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	Dynamic (room temperature): 32 to 51 mPa·s (32 to 51 cP)

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	Avoid extreme heat and direct sunlight.
Incompatible Materials	Reactive or incompatible with the following materials: oxidizing materials.
Hazardous Decomposition Products	Carbon oxides and nitrogen oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological Data	Not available
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	No known significant effects or critical hazards.
Germ Cell Mutagenicity	No known significant effects or critical hazards.
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 No known significant effects or critical hazards.

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.

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; CEPA Toxic substances
None of the components are listed.

US Information

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

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

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs); 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
No products were found.

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

2,2'-Dimorpholinyldiethyl ether
Serious Eye Damage/Eye Irritation - Category 2A

State Regulations (MA, NY, NJ, PA)
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

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