SAFETY DATA SHEET – UNIVERSAL ACCELERATOR

SECTION 1. IDENTIFICATION

Product Identifier	Universal 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 1-613-996-6666 CANUTEC (24 hrs)

SECTION 2. HAZARD IDENTIFICATION

Classification

Acute Toxicity (Oral)	Category 4
Skin Corrosion	Category 1B
Serious Eye Damage	Category 1
Reproductive Toxicity (Fertility)	Category 1B
Reproductive Toxicity (Unborn child)	Category 1B

Label Elements

Hazard Pictograms

Signal Word DANGER

Hazard Statements

Harmful if swallowed.
Causes severe skin burns and eye damage.
May damage fertility or the unborn child.
Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention

Obtain special precautions before use.
Do not handle until all safety precautions have been read and understood.
Wear appropriate protective equipment.
Avoid breathing fume/mist/vapours.
Wash hands thoroughly after handling.
Avoid release to the environment.

Response

IF ON SKIN: Immediately take off all contaminated clothing. Rinse skin with water or shower. Seek immediate medical attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Seek immediate 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

Chemical Name	CAS No.	Concentration (% by weight)	Common Names / Synonyms	Other Identifiers
Diisobutyl phthalate	84-69-5	≥ 50 - ≤ 75%	Not available	Not available
Amines, coco alkyldimethyl	61788-93-0	≥ 25 - ≤ 50%	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	Get immediate medical attention. Call a poison centre or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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	Get immediate medical attention. Call a poison centre or physician. Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Eye Contact	Get immediate medical attention. Call a poison centre or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.
Ingestion	Get immediate medical attention. Call a poison centre or physician. 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. Chemical burns must be treated promptly by a physician. 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 damage. Over-exposure symptoms may include pain, watering and redness. There no known significant effects or critical hazards for inhalation. Over-exposure symptoms may include reduced fetal weight, increase in fetal deaths and skeletal malformations. Causes severe burns. Over-exposure symptoms may include pain, irritation, redness, blistering, reduced fetal weight, increase in fetal deaths, and skeletal malformations. Harmful if swallowed. Over-exposure symptoms may include stomach pains, reduced fetal weight, increase in fetal deaths and skeletal malformations.
Indication of Immediate Medical Attention and Special Treatment Needed	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. If exposed or concerned, seek immediate medical advice and attention.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media	Use media suitable to the surrounding fire.
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. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Thermal decomposition products may include carbon dioxide and carbon monoxide.
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. 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 of 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	Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Environmental Precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling	Put on appropriate personal protective equipment (refer to section 8). Avoid exposure – obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breath vapour or mist. Do no ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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 sunlight in a dry, cool and well-ventilated area, away from incompatible materials (reacts with copper, aluminum, zinc and their alloys, oxidizing agents, acids) and food and drink. Store locked up. 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
Diisobutyl phthalate	Not available	Not available	Not available
Amines, coco alkyldimethyl	Not available	Not available	Not available

Appropriate Engineering Controls

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. 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 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required.

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	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, colourless to pale yellow liquid
Odour	Amine-like. Fishy.
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)
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)	0.94
Solubility in Water	Insoluble
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): 50 mPa·s (50 ± 20 cP)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability	Stable under recommended handling and storage conditions (refer to section 7).
Possibility of Hazardous Reactions	None under normal conditions.
Conditions to Avoid	Keep away from heat and direct sunlight.
Incompatible Materials	Reacts with copper, aluminum, zinc and their alloys, oxidizing agents, acids.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SAFETY DATA SHEET – UNIVERSAL ACCELERATOR

SECTION 11. TOXICOLOGICAL INFORMATION

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. Over-exposure symptoms may include reduced fetal weight, increase in fetal deaths and skeletal malformations.

Skin Contact
Causes severe burns. Symptoms may include pain, irritation, redness, blistering, reduced fetal weight, increase in fetal deaths, and skeletal malformations.

Eye Contact
Causes serious eye damage. Over-exposure symptoms may include pain, watering and redness.

Ingestion
Harmful if swallowed. Over-exposure symptoms may include stomach pains, reduced fetal weight, increase in fetal deaths and skeletal malformations.

Potential Chronic Health Effects

May damage the unborn child. May damage fertility.

Acute Toxicity

Oral – ATE value = 1111.1 mg/kg

Skin Corrosion/Irritation

There is no data available

Serious Eye Damage/Irritation

There is no data available

Specific Target Organ Toxicity - Single Exposure

There is no data available

Specific Target Organ Toxicity - Repeated Exposure There is no data available

Aspiration Hazard There is no data available

Respiratory and/or Skin Sensitization There is no data available

Reproductive Toxicity There is no data available

Germ Cell Mutagenicity There is no data available

Carcinogenicity There is no data available

Toxicological Data

Chemical Name	LC50	LD50
Diisobutyl phthalate	Not available	15 g/kg (oral, rat)

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Result	Species	Exposure
Diisobutyl phthalate	Acute LC50 900 µg/L Fresh water	Fish – Pimephales promelas	96 hours

Persistence and Degradability Not available

Bioaccumulative Potential

Chemical Name	$LogP_{ow}$	BCF	Potential
Diisobutyl phthalate	4.11	622	High

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 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

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group
TDG	UN2735	AMINES, LIQUID, CORROSIVE, N.O.S.	(Amines, coco alkyldimethyl). Marine pollutant (Diisobutyl phthalate, Amines, coco alkyldimethyl)	8	III
additional information	*Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail.*				
49 CFR/DOT	UN2735	AMINES, LIQUID, CORROSIVE, N.O.S.	(Amines, coco alkyldimethyl). Marine pollutant (Diisobutyl phthalate)	8	III
additional information	*This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.*				
IMDG	UN2735	AMINES, LIQUID, CORROSIVE, N.O.S.	(Amines, coco alkyldimethyl). Marine pollutant (Diisobutyl phthalate, Amines, coco alkyldimethyl)	8	III
additional information	*The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-A, S-B*				
ICAO/IATA	UN2735	AMINES, LIQUID, CORROSIVE, N.O.S.	(Amines, coco alkyldimethyl)	8	III
additional information	*The environmentally hazardous substance mark may appear if required by other transportation regulations.*				

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 Yes; refer to additional information above and section 12.

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

SAFETY DATA SHEET – UNIVERSAL ACCELERATOR

SECTION 15. REGULATORY INFORMATION

Canadian Information

WHMIS	Refer to section 2.
NPRI	None of the components are listed.
CEPA Toxic substances	None of the components are listed.
CEPA DSL/NDSL	All components are listed or exempted.

US Information

OSHA	This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Refer to section 2.
TSCA	8(a) PAIR: Diisobutyl phthalate 8(a) CDR Exempt/Partial exemption: Not determined 8(b) Inventory: All components in this product are listed or exempted.
Clean Water Act (CWA) 307	Diisobutyl phthalate
CERCLA Reportable Quantity	None present or none present in regulated quantities.
SARA Title III	Section 311/312, Hazard Chemical Inventory Diisobutyl phthalate - Immediate (acute) health hazard Amines, coco alkyldimethyl - Delayed (chronic) health hazard
State Regulations	Massachusetts – None of the components are listed New York – None of the components are listed New Jersey – None of the components are listed Pennsylvania – None of the components are listed California Prop. 65 – no products found

International Information Not available

SAFETY DATA SHEET – UNIVERSAL ACCELERATOR

SECTION 16. OTHER INFORMATION

Date of Latest Revision	August 28, 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 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