

PREMIER

MATERIAL SAFETY DATA SHEET

PRODUCT: ADPHALT POLYURETHANE FOAM

SUPPLIER:
FRANSYL LTD.
8650, Du Creusot
St-Léonard Qc.
H1P 2A7

EMERGENCY TELEPHONE NUMBER
(514) 321-2055

EMERGENCY 24 HOURS

CANUTEC (613) 996-6666

SECTION I IDENTIFICATION AND USE

PRODUCT NAME	Adphalt Polyurethane Foam
PRODUCT USE	Polyurethane Isolation Foam
CHEMICAL NAME / FAMILY	Mixture of PU- prepolymer and propellants

SECTION II REPORTABLE INGREDIENTS

INGREDIENTS	%	# CAS	TLV/TWA
Polymethylenepolypheny Isocyanate	> 25	9016-87-9	
Tris (2-chlor-1-methylethyl) Phosphate	> 25	13674-84-5 237-158-7	
Alpha, alpha', alpha" – 1,2,3- propanetriyltris (omega –b ydroxy-)	>25	25791-96-2 500-0440-5	
Poly [oxy(methyl-1,2-ethadediyl)]			
Isobutane	1-10	75-28-5	
Dimethly ether		200-857-2	
	1-5	115-10-6 204-065-8	
Propane	1-5	74-98-6\200-827-9	2500 mg/m ³ ppm

SECTION III PHYSICAL DATA

PURE MATERIAL OR MIXTURE	Mixture
PHYSICAL FORM	Aerosol
APPEARANCE ODOR	Various colors/Characteristic
PH AS IS	N/D
INITIAL BOILING POINT	N/D
MELTING POINT	Not Available
SOLUBILITY IN WATER	Insoluble
SPECIFIC GRAVITY (WATER=1)	N/D
VOLATILES (% W/W)	Not Available
EVAPORATION RATE	Not Available
VAPOUR DENSITY (AIR=1)	1.01
VAPOUR PRESSURE (MM)	Not Available
SOLUBLE IN	Organic solvents

SECTION IV FIRE AND EXPLOSION DATA

AUTO-IGNITION TEMPERATURE	Extremely flammable >250°C
FLASH POINT	Contains extremely flammable components
UPPER EXPLOSIVE LIMIT (%)	N/D
LOWER EXPLOSIVE LIMIT (%)	N/D
SENSITIVE TO STATIC DISCHARGE	Not Available
SENSITIVE TO MECHANICAL IMPACT	Not Available
EXTINGUISH MEDIA	Use quantities of water, polyvalent foam, BC powder, dry chemical, carbon dioxide extinguishing media. Keep containers cool. Use equipment or shielding to protect against bursting or venting of containers. For safety reasons unsuitable extinguishing agents: water with full jet.
SPECIAL FIREFIGHTING PROCEDURES	Dilute toxic gases with water spray. Take account of toxic firefighting water. Do not move the load if exposed to heat. Wear full protective equipment and a self-contained breathing apparatus should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of SCBA may not be required. Heat/fire exposure: compressed air/oxygen apparatus.
FIRE OR EXPLOSIVE HAZARD	Keep ignition sources away- Do not smoke. Protect against electrostatic charges. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, 122°F, i.e. electric lights. Do not spray on a naked flame or any incandescent material.
SPECIAL EXPOSURE HAZARDS	On burning: release of toxic and corrosive gases/vapours: phosphorus oxides, hydrogen chloride, carbon monoxide and carbon dioxide. – Gas/vapour spreads at floor level: ignition hazard – Gas/vapour flammable with air within explosion limits. – Aerosol may explode under the effect of heat.

SECTION V HEALTH EFFECTS DATA

SHORT TERM EFFECTS OF EXPOSURE

ACUTE EFFECTS – INGESTION	Swallowing large amounts may cause digestive discomfort.
ACUTE EFFECTS – SKIN	Irritant to skin and mucous membranes. Frequent or prolonged contact may cause dermatitis. May cause slight reddening if exposure is long or irritation from contact with uncured product particularly eyes and mucous membranes. May cause skin irritation and aggravate allergic skin conditions, persons with known isocyanate allergies should avoid any skin contact with product ingredients. Sensitization possible.
ABSORPTION	Not Available
ACUTE EFFECTS – INHALATION	Sensitization possible. May cause mild respiratory irritation in uncured state. May cause mild respiratory irritation in uncured state.
ACUTE EFFECTS – EYE	Uncured product is irritating to the eyes. Eye contact may result in moderate corneal injury and considerable redness lasting a week or more.
OVEREXPOSURE SYMPTOMS	<p>Acute effects/symptoms:</p> <p>AFTER INHALATION:</p> <ul style="list-style-type: none"> - Dry/sore throat - Coughing - Irritation of the respiratory tract - Irritation of the nasal mucous membranes - Runny nose <p>FOLLOWING SYMPTOMS MAY APPEAR LATER:</p> <ul style="list-style-type: none"> - Inflammation of the respiratory tract - Risk of lung oedema - Respiratory difficulties <p>AFTER SKIN CONTACT:</p> <ul style="list-style-type: none"> - Tingling/irritation of the skin <p>AFTER EYE CONTACT:</p> <ul style="list-style-type: none"> - Irritation of the eye tissue - Lacrimation

LONG TERM EFFECTS OF EXPOSURE

EFFECTS OF CHRONIC EXPOSURE	<p>Chronic effects:</p> <ul style="list-style-type: none"> - May cause sensitization by skin contact - May cause sensitization by inhalation - Contains substance with uncertain carcinogenic properties (polymethylenepolyphenylisocyanate) <p>ON CONTINUOUS EXPOSURE/CONTACT:</p> <ul style="list-style-type: none"> - Body temperature rise - Tremor - Feeling of weakness - Headache - Skin rash / inflammation - May stain the skin - Dry skin - Risk of pneumonia
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SPECIAL HEALTH EFFECTS

CARCINOGENICITY	See Section XI
TARGET ORGANS	See Section XI

SECTION VI FIRST AID MEASURES

INGESTION	<ul style="list-style-type: none"> - Never give water to an unconscious person - Do not induce vomiting - Seek medical advice
SKIN CONTACT	<ul style="list-style-type: none"> - Rinse immediately with plenty of water - If irritation persists: seek medical advice
INHALATION	<ul style="list-style-type: none"> - Remove the victim into fresh air - Seek medical advice
EYE CONTACT	<ul style="list-style-type: none"> - Rinse immediately with plenty of water - Check for and remove any contact lens. - Do not use an eye ointment without seeking medical attention. - Seek medical advice

SECTION VII RECOMMENDATIONS FOR PERSONAL PROTECTIVE EQUIPMENT

CONDITIONS UNDER WHICH PPE REQ'D

EYE PROTECTION REQUIREMENTS	Tightly sealed goggles
GLOVE REQUIREMENTS	Impervious gloves
CLOTHING REQUIREMENTS	None specified
CHANGE/REMOVAL OF CLOTHING	Immediately remove all soiled and contaminated clothing
WASH REQUIREMENTS	Wash hands before breaks and at the end of work.
RESPIRATOR REQUIREMENTS	In case of brief exposure or low pollution use respiratory filter device. In case protective device that is independent of circulating air.
ENGINEERING CONTROLS REQUIRES	Local ventilation
GENERAL PROTECTIVE AND HYGIENIC MEASURES	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.

SECTION VIII REACTIVITY DATA

STABILITY	Stable under normal storage conditions, installed foam is stable. Avoid water contamination, avoid alcohols, strong bases with metal compounds and contact with ammonia.
INCOMPATIBILITIES	Keep away from: heat sources, ignition sources, acids, bases.
CONDITIONS TO AVOID	Keep away from: heat sources, acids, bases. Unstable on exposure to heat.
HAZARDOUS DECOMPOSITION PRODUCTS	On burning: release of toxic and corrosive gases/vapours: Phosphorus oxides, hydrogen chloride, carbon monoxide and carbon dioxide. On heating: release of toxic/combustible gases/vapours (hydrogen cyanide) May polymerize on exposure to temperature rise. May polymerize with a lot of compounds, o.a. : (strong) bases and amines. Reacts violently with (some) acids/bases
HAZARDOUS POLYMERIZATION	Not available

SECTION IX SPILL AND LEAK PROCEDURES

SPILL AND LEAK PROCEDURES	Allow product to solidify and remove it by mechanical means. Remove uncured foam with acetone.
WASTE DISPOSAL METHODS	Dispose contaminated material as waste. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents. Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.
OTHER PRECAUTIONS	LAND SPILL: Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill. Eliminate ignition sources. Isolate hazard area and deny entry to unauthorized or unprotected personnel. GENERAL NOTES: Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water course or sewage system. Danger to drinking water if event small quantities leak into the ground.

SECTION X HANDLING AND STORAGE PRECAUTIONS

STORAGE TEMPERATURE	Storage temperature: < 50°C
HANDLING/STORAGE	Handling: Observe very strict hygiene – avoid contact. In case of insufficient ventilation: keep naked flames/sparks away. Remove contaminated clothing immediately. Clean contaminated clothing. Storage: Keep out of direct sunlight. Store in a dry and cool area. Keep away from: heat sources, ignition sources, acids, bases.
OTHER PRECAUTIONS	Incompatible with strong caustics, amines, alkali metal compounds, alcohols and water.
SPECIAL COMMENTS	Follow MSDS/label warnings even after container is emptied.

SECTION XI TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	<p>POLYMETHYLENEPOLYPHENYLISOCYANATE: LD50 oral rat: > 1000 mg/kg LD50 dermal rabbit: N.D. mg/kg LD50 dermal rabbit: > 5000 mg/kg LC50 inhalation rat: N.D. mg/¼ h LC50 inhalation rat: N.D. ppm/4 h</p> <p>Tris(2-CHLORINE-1-METHYLETHYL)POSPHATE: LD50 oral rat: > 3600 mg/kg LD50 dermal rabbit: 2000 mg/kg LD50 dermal rabbit: > 2000 mg/kg LC50 inhalation rat: 5 mg/¼ h LC50 inhalation rat: N.D. ppm/4 h</p> <p>Alpha,alpha', alpha'' -1,2,3,- PROPANETRIYL-Tris (omega- HYDROXY-) POLY[OXY (METHYL-1,2,-ETHANEDIYL)]: LD50 oral rat: > 1500 /2000 mg/kg LD50 dermal rabbit: N/D mg/kg LD50 dermal rabbit: > 2000 mg/kg LC50 inhalation rat: N.D. mg/¼ h LC50 inhalation rat: N.D. ppm/4 h</p> <p>ISOBUTANE: LD50 oral rat: > N/D mg/kg LD50 dermal rabbit: N/D mg/kg LD50 dermal rabbit: N/D mg/kg LC50 inhalation rat: 658 mg/¼ h LC50 inhalation rat: N.D. ppm/4 h</p> <p>PROPANE: LD50 oral rat: N/D mg/kg LD50 dermal rabbit: N/D mg/kg LD50 dermal rabbit: N/D mg/kg LC50 inhalation rat: 513 mg/¼ h LC50 inhalation rat: 280000 ppm/4 h</p>
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SECTION XI TOXICOLOGICAL INFORMATION (continued)

CHRONIC TOXICITY	POLYMETHYLENEPOLYPHENYLISOCYANATE:
	EC carc.cat.: not listed EC muta.cat.: not listed EC repr.cat.: not listed Carcinogenicity (TLV) : not listed Carcinogenicity (MAC): not listed Carcinogenicity (VME): not listed Carcinogenicity (GWBB): not listed Carcinogenicity (MAK): category 3B Mutagenicity (MAK): not listed Teratogenicity (MAK): Group- IARC classification: 3 DIMETHYL ETHER: EC carc.cat.: not listed EC muta. cat. : not listed EC repr. cat. : not listed Carcinogenicity (TLV): not listed Carcinogenicity (MAC): not listed Carcinogenicity (VME): not listed Carcinogenicity (GWBB): not listed Carcinogenicity (MAK): not listed Munagenicity (MAK): not listed Teratogenicity (MAK): Group D IARC classification: not listed

SECTION XII REGULATORY INFORMATION

T.D.G. INFORMATION

SHIPPING NAME	Aerosol, flammable, n.o.s.
P.I.N. NUMBER	UN 1950
TDG CLASS	2.2
PACKAGING GROUP	

WHMIS INFORMATION

CLASS	B-2 Flammable liquid B-3 Combustible liquid
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SECTION 313 (Specific toxic chemical listings): Product contains Diphenylmethane Diisocyanate (Cas 01-68-8) subject to the reporting limits of SARA 313 and is specifically addressed under CA, FL, MA, MN, NJ, and PA state regulations. For specific SARA reporting requirements in your jurisdiction contact your specific state agency having jurisdiction over Community Right to Know and Emergency Planning.
 9016-87-9 diphenylmethanediiisocyanate, isomers and homologues.
 TSCA (Toxic Substances Control Act): All ingredients are listed
 Other regulations, limitations and prohibitive regulations CERCLA: Components of this product are listed under this statute.
 OTHER INFORMATION: This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual.

SECTION XIII TECHNICAL CONTACT

FOR TECHNICAL INFORMATION CONTACT:

FRANSYL LTD
8650 Du Creusot
St-Léonard Qc.
H1P 2A7
(514) 321-2055

IMPORTANT

The information given and the recommendations made herein apply to our products alone and not combine with other products. This information is based on our research and on data from reliable sources and is believed to be accurate. No guaranty of accuracy is made. It is the purchaser's or the user's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.