Material Safety Data Sheet

0915 Fire Block Expanding Polyurethane Foam

MSDS No. 0122FBF

Emergency Phone No. 800- 535-5053 - INFOTRAC

SECTION 1 – PRODUCT NAME & MANUFACTURER INFORMATION							
PRODUCT NAME	Fire Block Expanding Polyurethane Foam – Aerosol Cans						
MANUFACTURER'S N TELEPHONE NUMBER							
STREET ADDRESS	4175 Webb Street						
CITY / STATE / ZIP	Pryor, Oklahoma 74361						
SECTIO	N 2 – COMPOSITION / HAZARDOUS INGREDIENTS	%	LD50	LC50	UNITS		
Methylenediphenyl diisocyanate isomers (Polymeric MDI) (9016-87-9)			NA	NA			
4,4' – methylenediphenyl diisocyanate (MDI) (101-68-8)			NA	NA			
Dimethyl ether (1)	15-10-6)	< 15	NA	NA			
Propane (74-98-6)		0 to 20	NA	NA			
Butane (106-97-8)		0 to 20	NA	NA			
Isobutane (75-28-	5	0 to 20	NA	NA			
Urethane Pre-poly	mer Blend (CAS No. not available) (Non-Haz proprietary polyol blend)	25 to 50	NA	NA			
	red. not considered hazardous under OSHA Haz. Com. Std. (29 CFR 1910.1200). OC Content: ~ 170 g/L. CARB Compliance: Exempt. Prop 65 Ingred: No.						
SECTION 3 – HAZARDS IDENTIFICATION							
PRIMARY ROUTE(S) OF ENTRY	Skin Contact Skin Absorption Eye Contact	Inhalation Ingestion					
EMERGENCY OVERVIEW		ANGER! Extremely flammable aerosol. Harmful by inhalation, in contact w/ skin or when swallowed. Irritating to eyes skin. Prolonged exposure may result in chronic effects. May result in sensitization w/ skin contact.					
EFFECTS OF OVEREXPOSURE	Inhalation: Vapors may irritate mucus membranes w/ tightness in chest, coughing, wheeziness or allergic asthma-like sensitivity. Overexposure to gases may result in light headedness, headaches or lethargy. <u>Skin Contact</u> : May cause localized skin irritation, redness. <u>Eye Contact</u> : Causes eye irritation. For its adhesive feature, foam contact w/ eyes may result in physical damage due to adhesive properties. <u>Ingestion</u> : Harmful if swallowed.						
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	MEDICAL None known. AGGRAVATED BY						
SECTION 4 – FIRST AID MEASURES							
SKIN CONTACT Use rag to remove excess foam. Remove contaminated clothing. Remove uncured foam from skin using a delicate solvent such as acetone or mineral spirits (avoid eye contact). Hardened foam may be removed by persistent washing w/ soap & water. If irritation develops, use a delicate cream. Seek medical attention. Wash clothing separately prior to reuse.							
EYE CONTACT	Flush w/ clean water for @ least 15 minutes. Remove contact lenses if easy to do. Seek medical attention.						
INHALATION	NHALATION Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled material. Induce artificial respiration w/ aid of a pocket mask equipped w/ a one-way valve or other proper respiratory medical device. Seek medical attention.						
INGESTION Rinse mouth. Do not induce vomiting unless advised by medical personnel & do not use mouth-to-mouth if victim ingested material. Induce artificial respiration w/ aid of a pocket mask equipped w/ a one-way valve or other proper respiratory medical device. If swallowed, seek medical attention & show MSDS or label.							

SECTION 5 – FIRE FIGHTING MEASURES					
FLAMMABLE Yes No Extremely flammable aerosol.					
EXTINGUISHING Large fires: Dry chemical, foam or water spray. Small fires:CO2, dry chemical or water spray.					
MEDIA FLASHPOINT (°F) & METHOD	~ 32F (0C) - propel	lant	UPPER EXPLOSIV (% BY VOLUME)	e limit 11.0 Vol. %	
LOWER EXPLOSIVE LIM (% BY VOLUME)	IT 1.5 Vol. %		AUTOIGNITION TEMPERTURE (°F) NE	
UNUSUAL FIRE & EXPLO HAZARDS		ool tanks w/ water spray ed breathing apparatus &	. Move container	s from fire area if can be done w/o risk. Self-	
SPECIAL FIREFIGHTING PROCEDURES	Hardened foam is an or	rganic matter & will bur	n in the presence	of sufficient heat, oxygen & ignition source.	
	SECTI	ON 6 – ACCIDEN	TAL RELEAS	SE MEASURES	
PROCEDURES Eliminate ignition sources. Local authorities should be advised if significant spillage cannot be contained. Ensure adequate ventilation. Keep individuals away from & upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces prior to entering & keep out of low areas. Do not contaminate water.					
	-	SECTION 7 – HAN	IDLING & ST	TORAGE	
HANDLING PROCEDURE EQUIPMENT	s & Keep away from he	at, spark, open flame &	other ignition sou	rces. Protect containers from physical abuse.	
STORAGE REQUIREMEN				78F. Storage above 104F will shorten shelf nts under pressure; do not puncture.	
	SECTION 8 –]	EXPOSURE CON	FROL / PERS	SONAL PROTECTION	
con	RESPIRATORY Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release. When workers are facing concentrations above the exposure limit they should use appropriate certified respirators. <u>Engineering Measures</u> : Ensure adequate ventilation, especially in confined areas. Ventilation rates should be matched to conditions.				
CLOTHING / Imp GLOVES	pervious gloves & suitable	e work clothes; suitable	protective clothin	g & protective gloves.	
	ercise good personal hygic tact w/ eyes & skin.	ene, wash thoroughly aft	er each use. Whe	n using product, do not eat, drink or smoke. Avoid	
SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES					
PHYSICAL STATE	Aerosol – rapidly cur by gaseous propell contai	ant from aerosol	ODOR & APPEARANCE	Characteristic odor; Color: Shade of orange	
SPECIFIC GRAVITY	NI		VAPOR DENSITY (AIR=1)	NE	
EVAPORATION RATE	NA	A	BOILING RANGE (°F)	NE	
рН	NI		SOLUBILITY IN WATER	Insoluble; reacts w/ water.	
VAPOR PRESSURE (MM Hg)	NI		%/WT VOLATILE (TNV)	NE	
SECTION 10 – STABILITY AND REACTIVITY					
STABILITY Xes No Stable w/ storage & handling as directed. Stable in normal conditions.					
INCOMPATABILITY	Yes INO	Incompatible w/ oxi compounds.	idizers, acids, base	es, amines, water, aluminum, copper, alcohols & metal	
CONDITIONS TO AVOID Avoid storage in temperatures exceeding 104F (40C). Protect against mechanical shocks. Avoid heat & moisture.					
HAZARDOUS POLYMERIZATION/HAZARDOUS DECOMPOSITION PRODUCTS					

SECTION 11 – TOXICOLOGICAL INFORMATION / CARCINOGENICITY

ACGIH Not listed as a carcinogen.

OSHA Not listed as a carcinogen.

NE

Not listed as a carcinogen.

Not listed as a carcinogen.

DATA WITH POSSIBLE RELEVANCE TO HUMANS

IARC

NTP

SECTION 12 – ECOLOGICAL INFORMATION

AQUATIC TOXICITY Ecotoxicity/Environmental Effects: May cause long-term adverse effects in the environment. Not biodegradable.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL EPA WASTE CODE IF

This material & its container must be disposed of as hazardous waste. Must be incinerated in suitable incineration plant holding a permit delivered by competent authorities. Do not dispose of waste into sewer. Do not allow material DISCARDED (40CFR Sec.261) to drain into water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4). Under RCRA it is the responsibility of the user of the product to determine, @ time of disposal, whether product meets RCRA criteria for hazardous waste.

SECTION 14 – TRANSPORT INFORMATION

SPECIAL SHIPPING INFORMATION

DOT UN No.: UN1950. Proper Shipping Name: Aerosols. Haz. Class: 2.1. Subsidiary Haz. Class: 6.1. Labels Required: 2.2, 6.1. Special Provisions: 153. Packaging Exemptions: 306. Packaging Non-bulk: None. Packaging Bulk: None. ERG No.: 126. IATA No: UN Number: 1950. Proper Shipping Name: Aerosols, flammable. Haz. Class: 2.1. ERG Code: 10L. IMDG UN No.: 1950. Proper Shipping Name: Aerosols, flammable. Haz. Class: 2.1. TDG Proper Shipping Name: Aerosols, flammable. Haz. Class: 2.1. UN No: N1950. Marine Pollutant: No. Special Provisions: 80 SOR/2002-306.

SECTION 15 – REGULATORY INFORMATION

CERCLA – SARA HAZARD CATEGORY; 40 CFR 302.4 (lbs)	Polymethylene polyphenyl isocyanate: 5,000, Butane: 100, Diphenylmethane-4,4'- diisocyanate: 5,000, Dimethylether: 100, Isobutane: 100, Propane: 100. Sec. 302 (Extremely Haz.): No. Sec. 311/312: No.	U.S. STATE REGS	See Section 16.
SARA 313 Title III	Toxic Chemical: De minimis concentration: CAS 101-68-8: 1%. CAS 9016-87-9: 1%.	TSCA & DSL	All ingredients listed on TSCA Inventory as well as Canadian Domestic Substances List: 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

SECTION 16 - OTHER INFORMATION / SPECIAL PRECAUTIONS / LEGEND

NFPA: Fire: 4, Health: 2, Instability: 1. HMIS: Flammability: 4, Health: 2, Physical Haz.: 1. Product is a liquid urethane prepolymer mixture that is packaged under pressure (Flammable Compressed Gas). Containers should be protected from heat, to avoid excessive pressure buildup. Prop. 65: Based on information currently available, product is not known to contain detectable amounts of any chemicals currently listed under California Proposition 65. ECCN Number: EAR99. US Federal Regs: THIS PRODUCT IS A HAZARDOUS CHEMICAL AS DEFINED BY OSHA HAZARD COMMUNICATION STD 29 CFR 1910.1200. US CAA Section 112 HAPS List: MDI (CAS 101-68-8), MDI (CAS 9016-87-9), WHMIS Status: Controlled. INTERNATIONAL EMERGENCY NUMBER: 352-323-3500 - INFOTRAC.

LEGEND: NA - Not Applicable, NE - Not Established, UN - Unavailable, VOC - Volatile Organic Compound, PEL - Permissible Exposure Limit, TLV -Threshold Limit Value, STEL - Short Term Exposure Limit, MSDS - Material Safety Data Sheet, ACGIH - American Conference of Governmental Industrial Hygienists, SARA - Superfund Amendments & Reauthorization Act of 1986, OSHA - Occupational Safety & Health Administration, HMIS - Hazardous Materials Identification System, NTP - National Toxicology Program, CEIL - Ceiling Exposure Limit, CASRN (CAS Number) - Chemical Abstracts Service Registry Number, TSCA - Toxic Substances Control Act, ECCN Number - Export Control Classification Number.

Reviewed By	Larry Brandon	VP Technology & GM	April 9, 2013

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