

POLYFOAM PRODUCTS, INC.

THIS MATERIAL SAFETY DATA SHEET PROVIDED AS A GUIDE TO THE USER
PLEASE READ ENTIRE MSDS BEFORE USING THIS PRODUCT
PLEASE CONTACT THE TECHNICAL ASSISTANCE NUMBER FOR ANY ADDITIONAL INFORMATION

Product Name:

POLYSET® ONE SINGLE COMPONENT ROOF TILE ADHESIVE

THIS MATERIAL IS DISTRIBUTED BY:

POLYFOAM PRODUCTS, INC.
P.O. Box 1539
Tomball, TX 77375
Product information - 1-800-774-3626

THIS MATERIAL IS MANUFACTURED BY:

FOMO PRODUCTS, INC
P.O. Box 1078
Norton, OH 44203

24 HOUR EMERGENCY RESPONSE: CALL CHEMTREC 800 424 9300

REVISION DATE: JUNE 22, 2007

REVISION AUTHOR: R. ROMERO

SECTION I – IDENTIFICATION

PRODUCT NAME: POLYSET® ONE Single Component Roof Tile Adhesive

CHEMICAL FAMILY: LIQUID URETHANE PREPOLYMER MIXTURE

FORMULA CONFIDENTIAL: Contact Manufacturer for confidential release of information.

Product is packaged under pressure (Non-Flammable Compressed Gas). Containers should not be heated above 120°F (49°C) to avoid excessive pressure build-up.

SECTION II – HAZARDOUS INGREDIENTS COMPOSITION

HAZARDOUS INGREDIENT	CAS NUMBER	PEL	PERCENT
URETHANE PREPOLYMER BLEND	NOT AVAILABLE THIS SECTION	N/A	40 - 70
HFC-134A	811-97-2	NA	10 - 30
4,4' - Diphenylmethane Diisocyanate (MDI)	101-68-8	NA	7 - 13
Higher Oligomers of MDI (Polymeric MDI)	9016-87-9	NA	7 - 13

(NOTE: See Section 8 of this MSDS for Exposure Guidelines)

SECTION III – HAZARD IDENTIFICATION

PHYSICAL HAZARDS: Since the containers are pressurized, storage temperature should not exceed 120°F (49°C) in order to avoid excessive pressure build-up and possible container rupture. Also, the product has strong adhesive-like characteristics and will adhere aggressively to skin and other surfaces. If accidental contact occurs, follow the appropriate first-aid procedure as described in Section 4 of this MSDS.

POTENTIAL HEALTH EFFECTS: The primary adverse health effects of this material are related to the Polymeric Isocyanate (MDI) component, and, to a lesser degree, the 1,1,1,2-Tetrafluoroethane (HFC-134A) component. Therefore, adequate ventilation should be provided to avoid exceeding the exposure limits of these components (See Section 8). The likelihood of exceeding these limits is low due to the low concentration of vapor produced during normal use. However, if used indoors, mechanical ventilation or exhaust should be provided during use and until product is cured.

Entry Route: Effects of Overexposure

Inhalation: May irritate mucous membranes with tightness in chest, coughing, or allergic asthma-like sensitivity. Extensive overexposure can lead to respiratory symptoms like bronchitis and pulmonary edema. These effects are usually reversible.

Overexposure to fluorocarbon may cause lightheadedness, headaches, or lethargy. Persons with cardiac arrhythmia may be at increased risk in severe exposure.

Skin: May cause localized irritation, reddening, or swelling. Prolonged or repeated exposure may lead to sensitization and/or dermatitis.

Eyes: May be irritating to eyes. Foam contact can cause physical damage due to adhesive character.

Ingestion: May cause irritation of mucus membranes in the mouth and digestive tract.

SECTION IV – FIRST AID

EYES: FLUSH WITH CLEAN WATER FOR AT LEAST 15 MINUTES AND OBTAIN MEDICAL ATTENTION IMMEDIATELY.

SKIN: USE A RAG TO REMOVE EXCESS ADHESIVE FROM SKIN AND REMOVE CONTAMINATED CLOTHING. USE OF A SOLVENT, SUCH AS ACETONE (NAIL POLISH REMOVER) OR MINERAL SPIRITS, MAY HELP IN REMOVING UNCURED RESIDUE FROM CLOTHING OR OTHER SURFACES (AVOID EYE CONTACT). CURED PRODUCT MAY BE PHYSICALLY REMOVED BY PERSISTENT WASHING WITH SOAP AND WATER. IF IRRITATION DEVELOPS, USE MILD SKIN CREAM. IF IRRITATION PERSISTS, OBTAIN MEDICAL ATTENTION.

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INHALATION: IF BREATHING DIFFICULTY IS EXPERIENCED, MOVE TO AREA FREE OF EXPOSURE. PROVIDE FRESH AIR. IF NECESSARY, PROVIDE OXYGEN OR ARTIFICIAL RESPIRATION BY TRAINED PERSONNEL AND OBTAIN MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING. DRINK 1-2 GLASSES OF WATER OR MILK. CONSULT PHYSICIAN. DO NOT GIVE ANYTHING ORALLY TO AN UNCONSCIOUS PERSON.

SECTION V – FIRE FIGHTING MEASURES

HIGH TEMPERATURES WILL RAISE THE PRESSURE IN THE CONTAINERS, WHICH MAY LEAD TO RUPTURING. EXTINGUISHING MEDIA INCLUDE: DRY CHEMICAL, CARBON DIOXIDE, HALON 1211, CHEMICAL FOAM, OR WATER SPRAY IF USED IN LARGE QUANTITIES (WATER CONTAMINATION WILL PRODUCE CARBON DIOXIDE). WEAR SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST TOXIC DECOMPOSITION BY-PRODUCTS, INCLUDING CO, CO₂, NO, AND TRACES OF HCN OR HCL. CURED PRODUCT IS ORGANIC AND, THEREFORE, WILL BURN IN THE PRESENCE OF SUFFICIENT HEAT, OXYGEN, AND IGNITION SOURCE.

SECTION VI – ACCIDENTAL RELEASE MEASURES/DISPOSAL CONSIDERATIONS

PROVIDE ADEQUATE VENTILATION AND WEAR RECOMMENDED PROTECTIVE CLOTHING (GLOVES, SAFETY GOGGLES, LONG SLEEVE WORK CLOTHES). UNCURED PRODUCT IS VERY STICKY SO CAREFULLY REMOVE THE BULK OF THE ADHESIVE BY SCRAPING IT UP AND THEN IMMEDIATELY REMOVE RESIDUE WITH A RAG AND SOLVENT SUCH AS GLYCOL ETHER, MINERAL SPIRITS, ACETONE (NAIL POLISH REMOVER), PAINT THINNER, ETC. ONCE THE PRODUCT HAS CURED, IT CAN ONLY BE REMOVED PHYSICALLY BY SCRAPING, BUFFING, ETC. DISPOSE AS PLASTIC WASTE (FOAM PLASTIC) IN ACCORDANCE WITH ALL APPLICABLE GUIDELINES AND REGULATIONS.

BEFORE DISPOSING OF CONTAINERS, RELIEVE CONTAINER OF ANY REMAINING FOAM AND PRESSURE. ALLOW PRODUCT TO FULLY CURE BEFORE DISPOSING. NEVER DISCARD IN A LIQUID STATE.

SECTION VII – HANDLING - STORAGE - REACTIVITY DATA

STORE IN A COOL, DRY PLACE. IDEAL STORAGE TEMPERATURE IS 60°F TO 80°F (15.5°C TO 26.6°C). STORAGE ABOVE 90°F (32.2°C) WILL SHORTEN THE SHELF LIFE. PROTECT CONTAINERS FROM PHYSICAL ABUSE. PROTECT UNUSED PRODUCT FROM FREEZING.

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SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

READ ALL PRODUCT INSTRUCTIONS BEFORE USING. PERSONAL PROTECTIVE EQUIPMENT SHOULD INCLUDE SAFETY EYEWEAR, CHEMICAL RESISTANT GLOVES, AND LONG SLEEVE WORK CLOTHES. ADEQUATE VENTILATION SHOULD ALSO BE EMPLOYED SO THAT VAPOR LEVELS DO NOT EXCEED RECOMMEND GUIDELINES. IF VAPOR LEVELS ARE EXPECTED TO EXCEED THESE GUIDELINES, USE A NIOSH/MSHA APPROVED, POSITIVE PRESSURE, SUPPLIED AIR RESPIRATOR. EXERCISE GOOD PERSONAL HYGIENE, WASH THOROUGHLY AFTER EACH USE.

<u>EXPOSURE GUIDELINES</u>	<u>OHSA</u>	<u>ACGIH</u>
4,4' - Diphenylmethane Diisocyanate (MDI)	.020 ppm ceiling .200 mg/m ³ ceiling	.005 ppm TWA .051 mg/m ³ TWA
Higher Oligomers of MDI	None Established	None Established
HFC 134A	None Established	None Established

(None of the components in this product are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen).

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

FORM: VISCOUS LIQUID WHICH FOAMS UPON RELEASE FROM CONTAINER AS AN OFF-WHITE TO YELLOWISH FROTH.

ODOR: SLIGHT FLUOROCARBON ODOR DURING CURING STAGE.

SOLUBILITY IN WATER: INSOLUBLE, REACTS SLOWLY WITH WATER DURING CURE; LIBERATING TRACES OF CO₂.

SPECIFIC GRAVITY: APPROXIMATELY 1.2 (H₂O = 1).

BOILING POINT: 1,1,1,2-TETRALUOROETHANE (NON-FLAMMABLE COMPRESSED GAS, HFC, FLUOROCARBON) 134A BOILS AT LESS THAN -15 °F (-26.6 °C). OTHER COMPONENTS BOIL AT TEMPERATURES GREATER THAN 200 °F (93.3 °C).

FLASH POINT: PRODUCT FLASH POINT HAS BEEN TESTED AT APPROXIMATELY 800 °F (426.6 °C).

VAPOR PRESSURE: CONTENTS UNDER PRESSURE HAVE VAPOR PRESSURE GREATER THAN 50 PSIG / 345 Kpa. AFTER RELEASE FROM CONTAINER, VAPOR PRESSURE IS VERY LOW (NOT DETERMINED).

EXPLOSION DATA: CONTENTS ARE NOT KNOWN TO BE SENSITIVE TO MECHANICAL IMPACT OR STATIC DISCHARGE.

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SECTION X — STABILITY AND REACTIVITY

THIS PRODUCT IS CONSIDERED STABLE UNDER NORMAL AND ANTICIPATED STORAGE AND HANDLING CONDITIONS. DO NOT STORE ABOVE 120°F (49°C). FOR LONGEST SHELF LIFE, AVOID STORAGE ABOVE 80°F (26.6°C). AVOID ALCOHOLS, STRONG BASES OR AMINES AND METAL COMPOUNDS (SUCH AS SMALL PARTICLE METAL CATALYSTS).

SECTION XI — TRANSPORTATION

SHIPPING INFORMATION

CONTAINERS GREATER THAN 1000 CU. CM. (1 LITER) i.e. 21 LB.

GROUND COMPRESSED GAS n.o.s. (TETRAFLUOROETHANE, NITROGEN) 2.2 UN 1956 (NON-FLAMMABLE GAS LABEL)

AIR COMPRESSED GAS n.o.s. (TETRAFLUOROETHANE, NITROGEN) 2.2 UN 1956 (NON-FLAMMABLE GAS LABEL)

WATER COMPRESSED OR LIQUIFIED GASES n.o.s. (TETRAFLUOROETHANE, NITROGEN) 2.2 UN 1956 (NON-FLAMMABLE GAS LABEL) IMDG VOLUME #2; PAGE# 93

EXCEPTIONS N/A

NOTE EMERGENCY RESPONSE GUIDE NUMBERS FOR COMPRESSED GAS # 126.

CONTAINERS 1000 CU. CM (1 LITER) OR LESS

GROUND CONSUMER COMMODITY ORM-D (ON SHIPPER CARTON) CONSUMER COMMODITY, POLYURETHANE FOAM SEALANT (ON SHIPPING DOCUMENT)

AIR UN1950 AEROSOLS, NON-FLAMMABLE 2.2 (NON-FLAMMABLE GAS LABEL)

WATER UN 1950 AEROSOLS "LTD QTY" 2 (NO HAZARD LABELS REQUIRED) BOXES OR CARTONS SHOULD BE MARKED (UN1950 AEROSOLS) ONLY. IMDG VOLUME #2, PAGE 93

EXCEPTIONS N/A

NOTE EMERGENCY RESPONSE GUIDE NUMBERS - #171, FOR AEROSOLS AND COMPRESSED GAS #126

SECTION XII — REGULATORY

TOXIC SUBSANCES CONTROL ACT (TSCA)/DOMESTIC SUBSTANCES LIST (DSL):

ALWAYS FOLLOW YOUR COMPANIES HEALTH AND SAFETY PLAN BEFORE WORKING WITH THIS PRODUCT OR ANY OTHER CHEMICAL. ALWAYS WEAR THE APPROPRIATE SAFETY GEAR WHEN WORKING WITH OR AROUND CHEMICALS.

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ALL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY, AS WELL AS THE CANADIAN DOMESTIC SUBSTANCES LIST.

SARA TITLE III:

CONTAINS DIPHENYLMETHANE DIISOCYANATE (CAS #101-68-8) SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III. APPLICABILITY MUST BE DETERMINED BY THE END USER.

PROPOSITION 65:

BASED ON INFORMATION CURRENTLY AVAILABLE, THIS PRODUCT IS NOT KNOWN TO CONTAIN DETECTABLE AMOUNTS OF ANY CHEMICALS CURRENTLY LISTED UNDER CALIFORNIA PROPOSITION 65.

V.O.C. CONTENT:

BASED ON THE CURRENT EPA DEFINITION OF VOLATILE ORGANIC COMPOUND, THIS PRODUCT DOES NOT HAVE ANY V.O.C. CONTENT.

SECTION XIII – OTHER

NFPA: FIRE 1; HEALTH 2; REACTIVITY 1

HMIS: FLAMMABILITY 1; HEALTH 2; REACTIVITY 1

THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE CORRECT AS OF THE DATE HEREOF. THE MANUFACTURER MAKES NO REPRESENTATIONS AS TO THE COMPLETENESS OR ACCURACY THEREOF. INFORMATION IS SUPPLIED UPON THE CONDITIONS THAT THE PERSONS RECEIVING IT WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR PURPOSES PRIOR TO USE. IN NO EVENT WILL THE MANUFACTURER BE RESPONSIBLE FOR DAMAGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE ARE MADE HEREUNDER WITH RESPECT TO THIS INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

INFORMATION CONTAINED HEREIN IS DEEMED TO BE RELIABLE, CONSERVATIVE, AND ACCURATE.

THIS DOCUMENT PREPARED BY:

T. EBERLING

DATE PREPARED: 11/1998