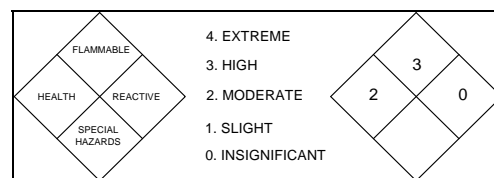


MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 116 ROYAL EDGE SPLICE ADHESIVE
(CLEAR)



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: Splice Adhesive – Clear (Rubber to Rubber)	24 Hour Emergency Telephone Number: 800-424-9300 CHEMTREC
Chemical Name/Synonyms: Butyl Rubber Adhesive	Manufacturer's Name: Roofing Products International, Inc.
Chemical Family: Mixture	Manufacturer's Address: 57460 Dewitt St., Elkhart, IN 46517-1078
Chemical Formula: Not Established	NFPA Acute Hazard Rating: Health 2, Flammability 3, Reactivity 0 HMIS Acute Hazard Rating: Health 2, Flammability 3, Reactivity 0

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	OSHA (1910.1200)	Case No.	% BY WEIGHT	OSHA PEL	ACGIH TLV
Hexane	Acute Toxicity	110-54-3	14	500PPM	50PPM
Polyisocyanate	Irritant	28182-81-2	<2	None Established	
Toluene	Acute/Chronic Toxicity	108-88-3	52	200PPM	TLV 50PPM OSHA CEIL 300PPM ACGIH SKIN
Xylene	Acute/Chronic Toxicity	1330-20-7	5	100PPM	ACGIH STEEL 150PPM 100PPM
Nonhazardous as per 29 CFR 1910.1200.	None	None	>27	None Established	

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: Clear viscous liquid, aromatic odor	Physical State: Liquid	Solubility in Water: Insoluble
Boiling Point: >151° F	Specific Gravity (Water =1) .876	Melting Point: NA
Vapor Pressure: <125 mm Hg @ 25° C	Vapor Density (Air=1) 3.7	Freezing Point: Not Established
Percent Volatiles: 70 %	Evaporation Rate: 1.9-9.5 (Ether=1)	Reactivity in Water: NA
pH (Full Strength) Not Established	pH (Recommended Dilution): Not Established	Refraction Index: NA

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: 0° F (-17.8° C)	Flammable Limits (in air): LEL: 1.2%; UEL: 7%
Extinguishing Media: Dry chemical, carbon dioxide, water fog or foam. Do not use a direct water stream. Product will float and can re-ignite.	Fire Fighting Procedures: Use water spray to cool adjacent surfaces and fire exposed containers. Protect against inhalation of combustion products. Firefighters should wear full protective clothing including self-contained breathing apparatus to prevent inhalation of smoke and decomposition products. Toxic fumes and vapors may be involved.
Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide, acrid smoke and irritating fumes.	Special Fire & Explosion Hazards: Flammable liquid. Vapors are heavier than air and can flow along surfaces to ignition sources and flash-back. Keep work areas free from open flames, sparks, hot metal surfaces and other sources of ignition. Ground objects prone to static electricity.
Method Used: TCC	Auto-Ignition Temperature: Not Established

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: Not Established	Signs and Symptoms of Exposure: Dizziness, nausea or vomiting. Difficulty in breathing. Sensitive individuals may exhibit eye, nose, throat or dermal irritation with prolonged exposure to processing fumes or vapors. Liquid can cause eye and skin irritation.	
Effects of Overexposure: Medical Conditions Aggravated By Exposure. Toxic fumes may be released during fire. Exposure to fumes may aggravate pre-existing eye, lung, and skin conditions. Individuals with neurological diseases should avoid exposure to hexane. Individuals who are sensitized to Isocyanates, and those with pre-existing lung diseases or conditions, including non-specific bronchial hyperactivity or asthma, must avoid all exposure to Isocyanates.	Primary Route of Exposure: Skin absorption and inhalation. Toluene LC₅₀: 8,000ppm/4hr, rat; Polyisocyanate LC₅₀: <1,150 mg/m³, rat; Xylene LC₅₀: 5,000 ppm/4hr, rat; Toluene LD₅₀: 5 g/kg, rat; HDI LD₅₀: 10 g/kg, rat; Xylene LD₅₀: 4.3 g/kg, rat.	
Acute: Irritation to eyes, lungs, and mucous membranes.		
Chronic: Excess exposure can cause CNS depression, headache, nausea, narcosis, and liver and kidney damage.		
Acute Oral LD ₅₀ >8 ML/KG (Rat)	Acute Dermal LD ₅₀ >4 ML/KG (Rat)	Acute Inhalation LC ₅₀ 3400 PPM/4H (Rat)
Emergency & First Aid Procedures: Eye Contact: Flush with water for 15 minutes and call physician. Skin Contact: Clean with rubbing alcohol, followed by soap and water. Inhalation: Remove to fresh air. Administer oxygen or artificial respiration, if necessary. Call physician. Ingestion: Consult a Physician and advise as to the nature of the product. DO NOT INDUCE VOMITING. Primary Route of Entry: Inhalation, Skin absorption.		

SECTION 6 – REACTIVITY DATA

Stability: Stable at ambient temperatures and pressures	Incompatibility: Strong oxidizers, acids, bases.
Hazardous Decomposition Products: Toxic gases or vapors, such as oxides of carbon and nitrogen along with trace of HCL may be released during a fire.	Hazardous Polymerization: Will not occur
Conditions to Avoid: Avoid open flames and sparks. Avoid closed areas that restrict adequate ventilation.	

SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Small spill: Absorb using inert material. Use non-sparking tools. Transfer into secure containers for proper disposal. Use personal protective equipment as outlined below.
Large Spill: Same as small spill.
Waste Disposal Method: Dispose of as a hazardous waste in accordance with EPA/RCRA regulations 40CFR261 21(a) (1) Ignitability: D001

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: Use NIOSH-Certified respiratory protection for organic vapor if necessary.	Eye Protection: Impervious safety glasses recommended
Protective Gloves: Impervious gloves are recommended to prevent skin contact.	Other Protective Equipment: Under normal application conditions, protective glasses, gloves, and clothing are adequate.
Ventilation: Provide adequate ventilation to maintain airborne concentrations below OSHA PELs.	

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling: Store in cool, dry, well ventilated facility. Store and use away from all sources of direct heat and ignition. Keep containers closed when not in use.
Other Precautions: Provide adequate ventilation and avoid prolonged or repeated contact with the skin. Wash with soap and water after contact.
Work/Hygienic Practices: Maintain good personal hygiene practices. Wash contaminated clothing before reuse. Do not eat, drink, or smoke in work areas. Wash exposed skin before eating, drinking, smoking, or applying cosmetics.

SECTION 10 - TRANSPORTATION

Regulatory Agency: U.S.A., DOT, IMO	Identification Number: UN1133
Proper Shipping Name: Adhesives	Labels Required: Flammable Liquid
Hazard Classification: 3	Other Requirements: 49 CFR 172.101 Adhesives, UN1133, IMDG Class 3.2, Pg. 3174, Flash Point -18° C
Packing Group: II	

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:

None

Date of Previous MSDS:

August 2000

Changes Since Previous MSDS:

Comment change in sections: 1 thru 9 Add sections: 10,11

Telephone Number for Additional Information:

(574) 293-9096

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