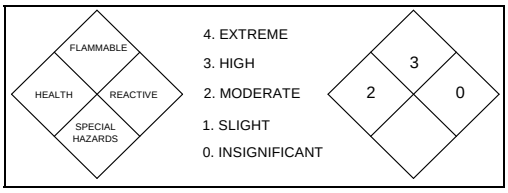
MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 312 ROYAL EDGE TPO CUT EDGE SEALANT



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: **Royal Edge TPO Cut Edge Sealant**	24 Hour Emergency Telephone Number: **800-424-9300 CHEMTREC**
Chemical Name/Synonyms: **N/A**	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)	Case No.	% by Weight	OSHA PEL	ACGIH TLV
Xylene	**1330-20-7**	**10-30**	**100 ppm**	**100 ppm**
Ethyl Benzene	**100-41-4**	**5-10**	**100 ppm**	**100 ppm**
Toluene	**108-88-3**	**0.1-1**	**200 ppm (300ppm ceiling)**	**20 ppm**
Stoddard Solvent	**8052-41-3**	**10-30**	**500 ppm**	**100 ppm**

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: **Thin clear liquid, aliphatic odor**	Physical State: **Liquid**	Solubility in Water: N/A
Boiling Point: **212°F**	Specific Gravity (HO=1) **0.7 (Water=1)**	Melting Point: **N/A**
Vapor Pressure: **N/A**	Vapor Density (Air=1) **Heavier than air**	Freezing Point: **Not Established**
Percent Volatiles: **55 %**	Evaporation Rate: **Slower than diethyl ether**	Reactivity in Water: **Not Established**
pH (Full Strength) **N/A**	Percent Solids (by weight): **15%**	VOC: **464 grams/liter**

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: **79° F TCC**	Flammable Limits (in air): **LEL: N/A ; UEL: NA**
Extinguishing Media: **NFPA Class B fire extinguishers. Dry chemical, carbon dioxide, water fog or foam. Water should be used to keep fire exposed containers cool. Polymer foam recommended for large fires.**	Fire Fighting Procedures: **Use water spray to cool adjacent surfaces and fire exposed containers. Protect against inhalation of combustion products. Treat as "Class B" fire.** **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: **Estimate based on the flash point of the most volatile component.**	Auto-Ignition Temperature: **Not Established**

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: **Not Established**	Signs and Symptoms of Exposure: **Eye contact may cause severe eye irritation, redness, tearing and blurred vision. Prolonged skin contact may cause irritation, dermatitis and drying of the skin. Other symptoms are dizziness, nausea or vomiting. Sensitive individuals may exhibit eye, nose, throat or dermal irritation with prolonged exposure to processing fumes or vapors. Inhalation may cause repiratory system irritation and central nervous system depression (Narcosis) fatigue.**
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**.	
Acute: **Irritation to eyes, lungs, and mucous membranes**	Chemical Listed as a Carcinogen (or Potential Carcinogen): National Toxicology Program: **NO** I.A.R.C. Monographs: **Ethyl Benzene (CAS 100-41-4)** OSHA: **Ethyl Benzene (CAS 100-41-4)**
Chronic: **Excess exposure can cause CNS depression, headache, nausea, narcosis, and liver and kidney damage**.	

Emergency & First Aid Procedures:

Eye Contact:

Hold eyes open and flush immediately with a gentle stream of water for at least 15 minutes, preferable at an eyewash fountain. Call physician

Skin Contact:

Remove contaminated clothing and immediately and wash affected area with soap and water. Rinse thoroughly. Call a physician if irritation persists.

Inhalation:

Remove to fresh uncontaminated air. Administer oxygen or artificial respiration, if necessary. Call physician.

Ingestion:

Consult a Physician. 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: **Partial combustion may release toxic gases or vapors, such as carbon dioxide and carbon monoxide.**	Hazardous Polymerization: **Will not occur.**
Conditions to Avoid: **Temperatures in excess of 115°F. Open flames, sparks, and 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:

Shut off and eliminate all ignition sources. Recover released product using inert materials such as sand, earth, or other suitable materials. Minimize skin contact. Use non-sparking tools. Ventilate confined spaces. Keep product clear of sewers, water, or extensive land areas. Assure conformity with applicable government regulations. Transfer into secure containers for proper disposal. Avoid static electricity build-up by grounding a fixed equipment and transfer containers. 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: Ignitability

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: **In areas with inadequate ventilation, the use of a NIOSH-Certified respiratory protection for organic vapor is recommended.**	Eye Protection: **Impervious glasses recommended**
Protective Gloves: **Polyvinyl alcohol, nitrile rubber, or neoprene 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 sparks, direct heat and ignition. Keep containers closed when not in use. Vapors of this material are heavier than air and will collect in low or confined areas. Empty containers can contain explosive vapors. Bond and ground all fixed and transfer equipment.

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**	DOT Identification Number: **UN1133**
DOT Proper Shipping Name: **Adhesive**	DOT Labels Required: **Flammable Liquid**
DOT Hazard Classification: **3**	DOT Packing Group: **III**

EPA SARA reportable ingredients: Ethyl Benzene (CAS 100-41-4), Xylene (CAS 1330-20-7)
DOT reportable quantity: Xylene (CAS 330-20-7) -100 lbs. Ethyl Benzene (CAS 100-41-4)-1000 lbs.

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:
NA

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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