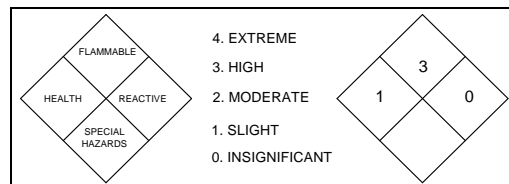


MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 321 ROYAL EDGE LOW VOC PRIMER/ACTIVATOR



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: Royal Edge Low VOC Primer/Activator		24 Hour Emergency Telephone Number: 800-424-9300 CHEMTREC
Chemical Name/Synonyms: Synthetic Rubber Polymers	Product Code: PA1GLV (1-gallon)	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 1, Flammability 3, Reactivity 0 HMIS Acute Hazard Rating: Health 1, Flammability 3, Reactivity 0	

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	Case No.	% by Weight
Heptane	142-82-5	5-20
PEL 2000 mg/m³, 500 ppm		
REL Short-term value: C 1800* mg/m³, C 440* ppm Long-term value: 350 mg/m³, 85 ppm *15-min		
TVL Short-term value: 2050 mg/m³, 500 ppm Long-term value: 1640 mg/m³, 400 ppm		
4-chloro-alpha, alpha, alpha-trifluorotoluene (oxsol 100)	98-56-6	65-85

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: Thin clear liquid, characteristic odor	Physical State: Liquid	Solubility in Water: Insoluble
Boiling Point: 98° C (208° F)	Specific Gravity (HO=1) 1.13 (Water=1)	Melting Point: NA
Vapor Pressure: @ 20°C, 68°F 48.0 hPa (36 mm Hg)	Vapor Density (Air=1) 3.6	Freezing Point: Not Established
Percent Volatiles: 85 %	Evaporation Rate: (ethyl ether = 1): 3.5	Reactivity in Water: Not Established
Organic Solid Content: 90.5%	Percent Solids (by weight): 9.5%	Ignition Temperature: 215° C (419° F)
Additional Information: VOC: 1.79 lbs/gal 215 g/l SCAQMD RULE 1168 METHOD WEIGHT PER GALLON: 9.4 lbs		

SECTION 4- FIRE & EXPLOSION HAZARD DATA

Flash Point: -4°C (25 F°)	Flammable Limits (in air): LEL: 1.1%; UEL: 7.0%
Extinguishing Media: Dry chemical (extinguishing powder), CO2, or sand. Do not use water as an extinguishing agent. Do not flush with water or aqueous cleansing agents. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, or sawdust).	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: Thermal Degradation products: Oxides of carbon, nitrogen and hydrocarbons, hydrogen bromide. 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: Product in not self-ligniting

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 respiratory 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 L.A.R.C. Monographs: NO OSHA: NO
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: Clean with rubbing alcohol, followed immediately by washing affected area with soap and water. 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.	

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:

Clean with rubbing alcohol, followed immediately by washing affected area with soap and water.

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 oxides of carbon and nitrogen along with traces of HCL.

Hazardous Polymerization:

Will not occur.

Conditions to Avoid:

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
Do not dispose with household garbage. Dispose according to local, state, and federal regulations.**

Water Hazard Class:

**Class 2, self assessment. Do not allow product to contaminate ground water, water course, or sewage systems.
Danger to drinking water even in small amounts. Poisonous to fish, plankton, and other aquatic organisms.
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

DOT Identification Number:

UN1133

DOT Proper Shipping Name:

Adhesive

DOT Labels Required:

Adhesives, containing flammable Liquid

DOT Hazard Classification:

3

DOT Packing Group:

II

EPA SARA Title III (40CFR355): There are no components present in the product at a level which would require reporting.

This product contains a chemical that is listed on the following states hazardous material list.

Pennsylvania Hazardous Substance List: YES

New Jersey Workplace Hazardous Substance List: YES

Massachusetts Substance List: YES

Canada (WHMIS) Ingredient Disclosure List: YES

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product contains listed substances, which the State of California has found to cause cancer, birth defects, or other reproductive harm, which would require a warning under the statute. Toluene CAS 108-88-3

EPA SARA Title III Section 313 (40CFR372): Aromatic hydrocarbon solvent C.A.S. # 108-88-3 20-40%.

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments:

NA

Date of Previous MSDS:

None

Changes Since Previous MSDS:

None, new product

Telephone Number for Additional Information:

(574) 293-9096

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