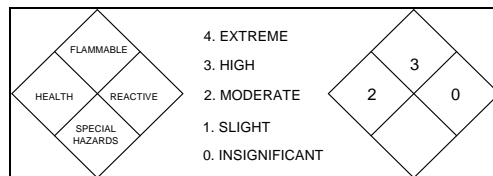


MATERIAL SAFETY DATA SHEET
ROOFING PRODUCTS INTERNATIONAL, INC.
MSDS 314 ROYAL EDGE WATER CUT-OFF MASTIC



SECTION 1 – PRODUCT IDENTIFICATION

Product Name: Water Cut-Off Mastic		24 Hour Emergency Telephone Number: 800-424-9300 CHEMTREC
Chemical Name/Synonyms: None	Product Code: WCOM	Manufacturer's Name: Roofing Products International, Inc.
Chemical Family: Mixture		Manufacturer's Address: 57460 Dewitt St., Elkhart, IN 46517-1078
Chemical Formula: NA		NFPA Acute Hazard Rating: Health 1, Flammability 3, Reactivity 0 HMIS Acute Hazard Rating: Health 2, Flammability 3, Reactivity 0

SECTION 2 – CHEMICAL COMPOSITION

Ingredient Components (chemical names)	Common Name	Case No.	% wt or % vol	OSHA STEL	OSHA PEL	ACGIH TLV
Heptane	None	142-82-5	14	500PPM	500PPM	400PPM
Calcium Carbonate	Limestone	1317-65-3	<3		5 mg/m³ (Respirable) 15 mg/m³ (Total)	2 mg/m³ (Respirable)
Kaolin	Clay	1332-58-7	>3		5 mg/m³ (Respirable) 15 mg/m³ (Total)	2 mg/m³ (Respirable)
Non-hazardous as per 29 CFR 1910.1200	None	EPA TSCA	<80		None Established	

SECTION 3 – PHYSICAL & CHEMICAL CHARACTERISTICS

Appearance/Odor: Grey viscous paste, aliphatic odor	Physical State: Paste	Solubility in Water: Insoluble
Boiling Point: 200°F	Specific Gravity (Water=1) 1.33	Melting Point: NA
Vapor Pressure: 45mm Hg @ 20°C	Vapor Density (Air=1) 3.4 (Air=1)	Freezing Point: Not Established
Percent Volatiles: 25.5%	Evaporation Rate: 4.5 (Butyl Acetate=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: 14°F	Flammable Limits (in air): LEL 1.0% UEL 7.0%
Extinguishing Media: Carbon Dioxide, foam, sand/earth. Dry chemical and foam can also be used. If material has ignited, use water spray to disperse vapors and protect firefighters. Water may be used to flush spills away from exposures.	Fire Fighting Procedures: 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. Use water spray to cool adjacent surfaces and fire-exposed containers only. Protect against inhalation of combustion products.
Method Used: Tagliabue closed tester	Auto-Ignition Temperature: Unknown
Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide, Oxides of Nitrogen, and Sulfur Dioxide.	Special Fire & Explosion Hazards: Cool heated containers with water stream. Keep away from open flames and sparks. Heated containers release fumes that settle in low areas and explode.

SECTION- 5 HEALTH HAZARD DATA

Permissible Exposure Limit: Not Established	Signs and Symptoms of Exposure: Sensitive individuals may exhibit eye, nose, throat or dermal irritation with prolonged exposure to processing fumes or vapors. Eye contact may cause irritation, redness, tearing and blurred vision. Prolong breathing of fumes may cause damage to the central nervous system and cause unconsciousness.
Chronic Effects: May cause kidney, liver, spleen and central nervous system damage. May cause brain cell and neuromuscular damage according to animal studies.	
Effects of Overexposure: Pre-existing lung, skin, eye, pulmonary or nervous system conditions may be aggravated by exposure to this product.	
Acute: Inhalation may cause respiratory system irritation and central nervous system depression characterized by headache, dizziness, muscular weakness and fatigue. May cause unconsciousness if exposure is excessive.	Carcinogenicity: None
Emergency & First Aid Procedures:	
Eye Contact: Flush with water for 15 minutes. Contact physician.	
Skin Contact: Clean with rubbing alcohol followed immediately by washing with soap and water.	
Inhalation: Remove to fresh air and administer oxygen if breathing is labored. Give artificial respiration if breathing is stopped. Seek immediate medical attention if oxygen or artificial respiration is administered.	
Ingestion: Do not induce vomiting. Consult and inform a physician of the incident and the type and nature of the material.	
Primary Route of Entry: Inhalation, skin.	

SECTION 6 – REACTIVITY DATA

Stability: Stable at ambient temperatures and pressures.	Incompatibility: Strong oxidizers, acids and bases.
Hazardous Decomposition Products: Toxic gases or vapors, such as carbon monoxide, carbon dioxide and other decomposition products may be released during a fire.	Hazardous Polymerization: Will not occur
	Conditions to Avoid: Open flames, sparks, static electricity, and welding arcs.

SECTION 7 - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Small spill: Remove ignition sources. Absorb on inert material. Use non-sparking tools, scoop or shovel material into secure containers proper disposal. Use personal protective equipment as outlined below.
Large Spill: Same as small spill.
Waste Disposal Method: As a hazardous waste in accordance with EPA/RCRA regulations 40 CFR 261.21 (a) (1). Ignitability: D001.

SECTION 8 – SPECIAL PROTECTION

Respiratory Protection: Approved OSHA organic vapor mask.	Eye Protection: Safety glasses recommended.
Protective Gloves: Impervious gloves are recommended to prevent skin contact. Neoprene, Nitrile rubber, or Polyvinyl gloves.	Other Protective Equipment: None required under normal installation conditions.
Ventilation: Store and use in well ventilated areas. Anticipated use for outdoors only. Local exhaust ventilation is recommended to minimize any vapor buildup or exposure.	

SECTION 9 – SPECIAL PRECAUTIONS OR OTHER COMMENTS

Storage/Handling: Store in cool, dry, well ventilated facility. Use away from all sources of direct heat and ignition. Keep containers closed when not in use.
Other Precautions: Store material in original shipping packaging. Ground all transfer containers and equipment to prevent static electricity. Vapors may settle in low areas. Provide adequate ventilation.
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	Packing Group: 11
Other Requirements: 49 CFR 172.101 Adhesives, UN1133, IMDG Class 3.2, Pg. 3174 Flash Point -10°C.	

SECTION 11 – MISCELLANEOUS INFORMATION

Additional Comments: None	Date of Previous MSDS: August 2000	Telephone Number for Additional Information: (574) 293-9096
Changes Since Previous MSDS: Comment change in sections: 1 thru 9 Add sections: 10,11		

DISCLAIMER

The information contained herein is based on data considered accurate which has been obtained from other companies and organizations. However, no warranty or representation is expressed or implied that the information is accurate, complete, or representative. Roofing Products International, Inc. assumes no responsibility for injury to the buyer, the buyer's employees, or any third persons if reasonable safety procedures are not followed.