

# Material Safety Data Sheet RII-77

OSHA Hazard Communication Standard: 29 CFR 1910-1200 Standard must be consulted for specific requirements.  
Note: Read Material Safety Data Sheets before using product.

## 1 PRODUCT INFORMATION

**Identity:** RII-77

**Manufacturer's Name:** **ROAN Industries, Inc.**  
**100 Chet Burleson Road**  
**Bakersville, NC 28705**

**Emergency Telephone Number:** CHEMTREC (800) 424-9300

**Telephone Number for Information:** (828) 688-5888 or (610) 759-4234 or (800) 804-4806

**Date Revised:** August 4, 2011

## 2 HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Common Name/Chemical Identity:	OSHA PEL	ACGIH	OTHER LIMITS
Mixture of glycol polymers varying from pure diethylene glycol to a blend of the following glycols:			
Ethylene Glycol 107-21-1	50ppm <sup>(ceiling)</sup>	100mg /m <sup>3</sup> <sup>(ceiling)</sup>	See Below
Diethylene Glycol 111-46-6	N.I.F.	N.I.F.	100mg /m <sup>3</sup> <sup>(8hr)</sup> AIHA WEEL
Triethylene Glycol 112-27-6	N.I.F.	N.I.F.	N.I.F.
Tetraethylene Glycol 112-60-7	N.I.F.	N.I.F.	N.I.F.
Pentaethylene Glycol 4792-15-8	N.I.F.	N.I.F.	N.I.F.
Hexaethylene Glycol 2615-15-8	N.I.F.	N.I.F.	N.I.F.

**Section 313 Supplier Notification:** This product can contain up to the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

CAS#	Chemical Name	Max % by Weight
107-21-1	Ethylene Glycol	10%

This information must be included in all MSDSs that are copied and distributed for this material.

## 3 PHYSICAL/CHEMICAL CHARACTERISTICS

**Boiling Point:** N.A

**Specific Gravity (H20=1) At 25° C:** 1.10- 1.12

**Vapor Pressure:** N.A

**Melting Point:** N.A.

**Vapor Density:** N.A

**Evaporation Rate (Butyl Acetate=1):** N.A

**Solubility in Water:** Miscible

**Appearance and Odor:** Colorless to dark brown liquid with a mild odor.

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## 4 FIRE AND EXPLOSION HAZARD DATA

**Flash Point (Method Used):** 168.3° C / 335° F CC **Flammable Limits:** LEL: N/D UEL: N.D.

**Extinguishing Media:** Use an extinguishing agent that is suitable for the surrounding fire.

### Special Fire Fighting Procedures and Exposure Hazards

If material is heated or in a fire, the pressure can increase and cause the container to burst.

If a fire occurs, promptly isolate the area and remove persons in the vicinity.

For fire fighting personnel: Choose appropriate personal protective equipment as needed.

Including a self contained, positive pressure breathing apparatus with a full face-piece.

## 5 REACTIVITY DATA

**Stability:** Stable

**Conditions to Avoid:** Avoid contact with strong oxidizers, acids, and bases.

**Incompatibility:** Strong oxidizing agents, acids, alkalis.

**Hazardous Decomposition or Byproducts:** Carbon dioxides and carbon monoxides.

**Hazardous Polymerization:** Under normal conditions, will not occur.

## 6 HEALTH HAZARD DATA

### Route of Entry:

Eyes, Skin, Inhalation, and Ingestion

### Health Hazards:

*Eyes:* May cause irritation.

*Skin:* Slightly irritating to the skin.

*Inhalation:* Slightly irritating to the respiratory system.

*Ingestion:* Can be toxic and affect the kidneys and liver. Aspiration hazard if swallowed. Very toxic if swallowed.

*May be fatal if swallowed. May cause respiratory tract, eye, and skin irritation.*

*Contains material that affects target organ - kidneys, liver, central nervous system, bladder, and reproductive system.*

*Aspiration hazard if swallowed-can enter lungs and cause damage.*

*Contains material which can cause birth defects. Avoid exposure during pregnancy. Possible reproductive hazard.*

*This product is not to be used in food, drug, cosmetic or potable water applications.*

**Carcinogenicity:** NTP? N.I.F.      **IARC Monographs?** N.I.F.      **OSHA Regulated?** Yes

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## 6 HEALTH HAZARD DATA (continued)

### Emergency and First Aid Procedures:

*Eyes:* Flush with plenty of water for at least 15 minutes, occasionally lifting upper and lower eyelids. Remove contact lenses. Get medical attention if irritation or redness persists.

*Skin:* Flush with plenty of water. Remove contaminated clothing and wash skin thoroughly with soap and water for several minutes. Contact a physician if irritation develops or persists. Wash clothes before reuse.

*Inhalation:* Move person to fresh air area. Seek medical attention. Use artificial respiration and/or oxygen, if required. It may be dangerous to person providing aid to give mouth-to-mouth resuscitation.

*Ingestion:* Contact a physician. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person.

**In an emergency or if in doubt, contact a physician.**

*Note to physician: Treatment with ethyl alcohol if toxic ingestion is suspected or if there is metabolic acidosis. This should be administered to maintain blood ethyl alcohol levels of above 100mg/dL.*

## 7 PRECAUTIONS FOR SAFE HANDLING AND USE

### Steps To Be Taken in Case Material is Released or Spilled:

Never take any action if it involves personal risk or without adequate training. Evacuate surrounding area.

Ventilate area. Wear personal protective clothing, equipment including appropriate respiratory protection. Avoid breathing vapor. Avoid contact with eye, skin, and clothing. Contain the spill. Clean up with suitable absorbent material. Place in container for proper disposal. Keep spill out of drains, sewers, waterways, and confined areas.

**Waste Disposal Method:** Dispose all waste in accordance with Federal, State and Local regulations. Dispose of via a licensed waste disposal contractor.

### Precautions To Be Taken in Handling and Storing:

Eating, drinking, and smoking should be prohibited in areas where material is handled, stored, or processed.

Put on appropriate personal protective equipment. Avoid breathing of vapors and mist.

Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling.

Store in tightly closed, properly labeled containers in a cool, well-ventilated area.

Store away from incompatible materials.

Use appropriate containment to avoid environmental contamination.

## 8 CONTROL MEASURES

### Ventilation

**Local Exhaust:** Use to maintain airborne concentrations below permissible levels.

**Mechanical (General):** Use in addition to local exhaust if required.

**Respiratory Protection:** Use a properly fitted, air-purifying or air-fed respirator that complies with an approved standard if a risk assessment necessitates one.

**Protective Gloves:** Use chemical resistant, impervious gloves complying with an approved standard if risk assessment necessitates use.

**Eye Protection:** Use safety eyewear complying with an approved standard if a risk assessment necessitates use.

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## 8 CONTROL MEASURES (continued)

**Other Protective Clothing or Equipment:** Other protective clothing or equipment should be used according to an approved standard after a risk assessment has been performed.

**Work/Hygienic Practices:** Wash hands and face thoroughly after handling and before eating. Remove contaminated clothing and laundry before reuse.

**Engineering Controls:** Emergency shower and eyewash facility should be in close proximity.

## 9 TRANSPORTATION INFORMATION

**Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S. (Ethylene glycol)

**UN/NA Number:** UN 3082

**Domestic Hazard Class:** 9

**Packing Group:** III

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