



5353 Spring Grove Avenue, Cincinnati, OH 45217 USA 513-471-8770

Material Safety Data Sheet

Section 1 - Product Identification

Product Name: RI 333 Rust Inhibited Coolant

Hazard Rating

	Health	Fire	Reactivity		
NFPA Code:	1	0	0		
0=Least	1=Slight	2=Moderate	3=High	4=Extreme	

Section 2 - Hazardous Ingredients / Identity Information

Specific Identity; Common Names	OSHA PEL	ACGIH TLV	Other
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Proprietary Formula - Specific Chemical Identities Have Been Withheld

102-71-6		
Alkanolamine	-	5 mg/m3

Section 3 - Physical/Chemical Characteristics

Appearance	Blue liquid
Boiling Point, Deg. F	Not Known
Evaporation, BuAcetate=1	Slower than
Odor	Mild
Solubility in water	Complete
Vapor Density (Air=1)	Not Known
Vapor Pressure	Not Known
Pounds per Gallon	8.543
Specific Gravity	1.026

Section 4 - Fire and Explosion Hazard Data

Flash Point COC: NA Flammable Limits: LEL-Not Known UEL-Not Known
 Extinguishing Media: Foam, dry chemical, water fog, carbon dioxide.
 Special Fire Fighting Procedures: Cool fire exposed containers with water.
 Do not enter a confined fire space without full bunker gear and NIOSH approved supplied air breathing apparatus.
 Unusual Fire and Explosion Hazards: Product is water based and will not burn until water has evaporated.

Section 5 - Reactivity Data

Stability - Stable.
 Incompatibility - Strong acids. Nitrites. Oxidizing agents.
 Hazardous Decomposition Products - Oxides of carbon. Oxides of nitrogen. Oxides of sulfur.
 Hazardous Polymerization - Will not occur.
 Other -
 This product contains amines. Do not mix with nitrite or other nitrosating agents due to the potential for nitrosamine formation.

Section 6 - Health Hazard Data

Routes of Entry: Inhalation=yes Skin=yes Ingestion=yes
 Health Hazards:
 The health hazards listed below are for components to this mixture. The active ingredients are diluted in water in this mixture and the severity of the listed health hazards for this product may be reduced. This product is designed to be diluted significantly with water before product use. The severity of these health hazards may be reduced further at usage concentrations.
 (Acute and Chronic Overexposure)

Eyes - Corrosive. Irritation. Redness. Severe damage. Swelling. Tearing.

Skin - Corrosive. Repeated or prolonged contact may cause defatting, oil acne,



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irritation or
allergic reaction in sensitive individuals.

Inhalation - Harmful if inhaled. Slight Irritation.

Ingestion - Diarrhea. Harmful if swallowed. Irritation. Lethargy. Nausea. Vomiting.
Swallowing this material can cause burns to the mouth and esophagus.
Asphyxiation can occur from swelling of the throat. Perforation of the esophagus
and stomach can occur.

Signs And Symptoms of Exposure - As Noted Above.

Medical Conditions Generally Aggravated By Exposure - None Known.

Other Precautions - NA

Other -

Long-term oral ingestion of ethanolamines by rats and guinea pigs produced
damage to liver and kidneys. Long-term cutaneous applications to animals of
ethanolamines also produced evidence of damage to liver and kidneys.

Carcinogenicity NTP-No IARC-No OSHA-No

Emergency and First Aid Procedures: Inhalation - remove to fresh air. Skin
contact - wash using a mild soap. Eye contact - flush with water, see
a physician. Ingestion - call a physician.

Section 7 - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled:

Dike area. Recover free product. Add a dry absorbent material to spill
area.

Waste Disposal Method: Dispose by methods consistent with local state and
federal regulations.

Precautions to be Taken in Handling and Storing: Keep containers tightly
closed. Use and store this product with adequate ventilation. Avoid
inhalation of vapors and personal contact with the product. To
dissipate static electricity during transfer, ground and/or bond both
containers. Since emptied containers retain product residue, follow
warnings even after container is emptied. Residue or vapors may
explode on ignition; do not cut, drill, grind or weld on or near
container even when empty.

Other Precautions:
Not Applicable

Section 8 - Control Measures

Respiratory Protection: Not normally required. Use NIOSH approved supplied
air breathing equipment if vapors are excessive.

Ventilation: Local Exhaust : Not normally required.

Mechanical (General): Use general ventilation.

Protective Gloves: Use chemical-resistant gloves, if needed, to avoid skin
contact.

Eye Protection: Use splash goggles or face shield when eye contact may
occur.

Other Protective Clothing or Equipment: To prevent repeated or prolonged
skin contact, wear impervious apron/clothing and boots.

Work/Hygienic Practices: Minimize breathing vapor, mist or fumes. Wash
skin with soap and water after contact. Launder contaminated
clothing.

Section 9 - Regulatory Information

DOT Information

DOT Proper Shipping Name: None

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DOT Hazard Code: None
UN Number: None

Section 313 Supplier Notification

This product contains the following 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#	Common Name	Weight%
	None	

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

Prepared according to the OSHA Hazard Communication Standard
(29 CFR 1910.1200) by CCI Inc.

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End of MSDS
