

# Material Safety Data Sheet

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**MSDS # 1049**  
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Supersedes  
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## SECTION I - PRODUCT IDENTIFICATION

**Trade Name(s):** N-36  
N-37  
N-39  
N-40  
N-52

**Product Class:** Emulsifiers

**Product Appearance & Odor:** Dark, viscous liquid with a slightly pungent hydrocarbon odor.

**DOT Hazard Shipping Description:** Combustible liquid, n.o.s. (Alkanolamine), NA 1993 III  
Shipped in drums or bulk tanker.

**NFPA Hazard Classification:** Health (Blue) = 2  
Flammability (Red) = 1  
Reactivity (Yellow) = 0

## SECTION II - HAZARDOUS INGREDIENTS

Ingredients:	CAS#	% (Range)	Occupational Exposure Limits	
			ACGIH TLV-TWA	OSHA PEL-TWA
Alkanolamine	100-37-8	1-6	10 mg/m <sup>3</sup>	50 mg/m <sup>3</sup>
Mineral Oil (Mist)	64742-35-4	5-70	5 mg/m <sup>3</sup>	None

Ingredients, other than those mentioned above, as used in this product are not hazardous as defined under current Department of Labor regulations, or are present in deminimus concentrations (less than 0.1% for carcinogens, less than 1.0% for other hazardous materials).

## SECTION III - PHYSICAL DATA

**Boiling Point:** >150°C (302°F)

**Vapor Density:** >1

**Percent Volatile by Volume:** <5

**Evaporation Rate (Butyl Acetate = 1):** <1

**Vapor Pressure:** <1 mm Hg at 20°C

**Density:** 0.87-0.92 g/cc

**Solubility in Water:** Insoluble

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## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** 79°C (174°F)

**Flammable Limits:** Not Determined

**Extinguishing Media:** Use carbon dioxide or dry chemical on small fires. Use foam (alcohol, polymer or ordinary) and water spray for large fires.

**Special Fire Fighting Procedures:** Self contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals.

**Unusual Fire and Explosion Hazards:** None known.

## SECTION V - HEALTH HAZARD DATA

### Effects of Overexposure

**Eyes:** May cause irritation, redness and tearing.

**Skin:** Prolonged contact may cause irritation.

**Ingestion:** Large amounts may be harmful if swallowed.

**Inhalation:** May cause dizziness, nausea, intestinal upset.

**Systemic or Other Effects:** None known.

### Emergency and First Aid Procedures

**Eyes:** Irrigate with running water for at least fifteen minutes. If irritation persists, seek medical attention.

**Skin:** Remove contaminated clothing. Wash with soap and water.

**Ingestion:** Seek medical attention.

**Inhalation:** Remove to fresh air. If irritation persists, seek medical attention.

**Special Considerations:** None.

## SECTION VI - REACTIVITY DATA

**Stability:** Stable under normal conditions.

**Conditions to Avoid:** See Below

**Materials to Avoid (Incompatibility):** Strong oxidizing material can cause a reaction.

**Hazardous Decomposition Products:** Thermal decomposition or burning may produce Carbon Monoxide (CO) and/or Nitrogen Oxides (NO<sub>x</sub>).

**Hazardous Polymerization:** Will not occur.

## SECTION VII - SPILL OR LEAK PROCEDURES

**Steps to be taken in Case Material is Released or Spilled:** Use appropriate safety equipment. Use absorbent material to collect and contain for disposal. Contain large spills and pump into a suitable tank. Wash area with suitable detergent and thoroughly rinse. Follow applicable Federal, State and local reporting requirements.

**Waste Disposal Method:** Disposal must comply with Federal, State and local regulations.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

**Ventilation:** Ventilation must be adequate to prevent exposure to high concentrations of vapors. Mechanical ventilation is recommended for enclosed areas and/or when product is at elevated temperatures.

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**Respiratory Protection:** Do not breath vapors. A suitable respirator is strongly recommended when ventilation is marginal or the product is being handled at elevated temperatures.

**Protective Clothing:** Body-covering clothing and rubber gloves are recommended. Remove contaminated clothing to prevent prolonged skin contact.

**Eye Protection:** Safety glasses are recommended.

**Other Precautions Required:** None.

## SECTION IX - SPECIAL PRECAUTIONS

**Precautions to be taken in handling and storage:** Store in compliance with all Federal, State, and local regulations.

**Other Precautions:** Store only in well-ventilated areas at temperatures below the flash point. Keep all containers tightly sealed, including empty containers. Do not breathe vapors when opening containers.

## SECTION X - SPECIAL INFORMATION

This product contains the following substances that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% By Weight</u>
None		

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