



MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

APPROVALED BY US DEPT OF LABOR, SIMILAR TO FORM OSHA174

SECTION 2: PRODUCT IDENTIFICATION

TRADE NAME: N-Terpinal RS- 98

HEALTH RATING: HEALTH – 1 FLAMMABILY – 1 REACTIVITY- 2

SECTION 3: PHYSICAL DATA

PHYSICAL STATE:	Liquid
APPEARANCE AND ODOR:	Amber liquid
ODOR (PPM):	<1
VAPOR PRESSURE (mm hG):	<0.0733
VAPOR DENSITY (Air=1-):	>1 g/l
EVAPORATION RATE:	Slow
VOC: (ASTM Method D 3960)	.87 lb./gal
BOILING POINT: (ASTM Method D 86-82)	213 ^o F / 101 ^o C
FREEZING POINT:	N/A
pH: (EPA Method 150.1)	7.4 @ 25 ^o C
SPECIFIC GRAVITY: (Westphal Balance)	1.0417 @ 21 ^o C
SOLUBILITY IN WATER: (TSL Method)	40% @ 20 ^o C
VISCOSITY: (Brookfield, ASTM Method D2196)	5.2 cps @ 25 ^o C

INHALATION: Remove to fresh air and restore breathing if necessary. Contact a physician if there are signs of breathing difficulties.

EYE CONTACT: Flush with plenty of water for 15 minutes. If irritation persists, consult a physician.

INGESTION: Get medical attention.

SKIN: Wash off with soap and water.

SECTION 8: REACTIVITY DATA

CHEMICAL STABILITY: Stable under normal conditions

INCOMPATIBILITY: Strong oxidizing agents

DECOMPOSING PRODUCTS: None known

CONDITIONS FOR REACTIVITY: Hazardous polymerization will not occur

ALUMINUM TEST: (Modified ASTM Method F482-84) No effect

SECTION 9: TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE: Inhalation—may cause irritation to mucous membranes; Skin Contact--may cause irritation or dermatitis; Eye Contact--may cause nausea stinging or burning; Ingestion--may cause irritation to the digestive system

EXPOSURE LIMITS: None

IRRITANCY OF PRODUCT: Eye and skin irritant

SENSITIZATION TO PRODUCT: None

CARCINOGENICITY: None

TERATOGENICITY: None

REPRODUCTIVE TOXICITY: None

MUTAGENICITY: None

SYNERGISTIC PRODUCTS: None

SECTION 10: CONTROL MEASURES

RESPIRATORY PROTECTION: Organic cartridge type respirator if ventilation or other means cannot keep air below TLV.

VENTILATION: Local exhaust is preferable, but any mechanical means that will keep vapors below limits is acceptable.

PROTECTIVE GLOVES: Recommended- must be chemical resistant.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Chemical goggles and apron are recommended if splashing is possible. An eye wash station should be available.

SECTION 11: FIRE & EXPLOSION HAZARD DATA

Flash Point >200F

(TCC) Extinguishing Media

SPECIAL FIRE FIGHTING INSTRUCTIONS: . In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode

FIRE EXPOSURE WARNING: No known unusual hazards in a fire or explosion situation.

SECTION 12: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:

Ventilate area of leak or spill. Wear appropriate personal protective equipment as required. Isolate release area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust. Small spills may be flushed to the sanitary sewer with approval from local authorities.

DISPOSAL CONSIDERATIONS:

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.

State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 13: MATERIALS & CONDITIONS TO AVOID

MATERIALS TO AVOID: Strong Oxidizers
Isolate from heat, sparks, and open flames.

SECTION 14: REGULATORY INFORMATION

SARA TITLE III
SUPPLIER NOTIFICATION: This product contains the following toxic chemicals subject to the reporting requirements of SARA Title III, Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR372.

CAS	CHEMICAL NAME	% wt
872-50-4	N-methyl-2-pyrrolidone	12 to 24 %

CALIFORNIA PROPOSITION 65: This material is known to contain the following chemicals currently listed as carcinogens or reproductive toxins which would be subject to the proposition.

SECTION 15: SPECIAL PRECAUTIONS & INSTRUCTIONS

HANDLING INSTRUCTIONS & STORAGE: Follow normal good practices in handling and storage. Store N-Terpinal above 25 degrees F. 32 degrees F. if diluted 50% or over by weight

SECTION 16: D.O.T. SHIPPING INFORMATION

PROPER SHIPPING NAME: Organic Cleaning Chemical

D.O.T. SHIPPING LABEL: NONE

SHIPPING CLASS: 55

SECTION 17: ECOLOGICAL INFORMATION

CHEMICAL FORULATED Organic / Biodegradable
COMPONITES:

SECTION 18: OTHER INFORMATION

Disclaimer:

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