LOCTITE CORPORATION 10/20/98
ROCKY HILL, CONNECTICUT 06067
EMERGENCY PHONE: (860) 571-5100

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Naval Jelly(R) Rust Neutralizer
81847

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Item No.: 81847
Part No.: RTS-16
Product Type: Aerosol Coating

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
ACETONE	67-64-1	40-45
DIMETHYL ETHER	115-10-6	40-45
2-BUTOXYETHANOL*	111-76-2	5-10
Organic acid	Proprietary	1-3
Vinyl terpolymer	27360-07-2	1-3
Water	7732-18-5	1-3

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
ACETONE	500 ppm TWA 1188 mg/m3	750 ppm TWA 1800 mg/m3	None
2-BUTOXYETHANOL	25 ppm TWA skin 121mg/m3 skin	50 ppm TWA skin 120mg/m3 skin	None

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
ACETONE	750 ppm 1782 mg/m3	1000 ppm 2400 mg/m3

3. HAZARDS IDENTIFICATION

Toxicity: Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, and blood forming systems.

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3. HAZARDS IDENTIFICATION (continued)

Primary Routes of Entry: Exposure may be by inhalation and/or skin or eye contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

Signs and Symptoms of Exposure: Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

Existing Conditions Aggravated by Exposure: None generally recognized.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen NTP	IARC	OSHA
ACETONE	AC4 BLO CNS IRR	NO	NO	NO
DIMETHYL ETHER	CNS IRR	NO	NO	NO
2-BUTOXYETHANOL	BLO CNS IRR	NO	NO	NO
Organic acid	COR IRR KID LIV	NO	N/A	NO
Vinyl terpolymer	No Data	NO	NO	NO
Water	No Data	NO	NO	NO

Abbreviations

N/A Not Applicable	AC4 ACGIH-Unclassifiable as human carc.
BLO Blood	CNS Central nervous system
COR Corrosive	IRR Irritant
KID Kidney	LIV Liver

4. FIRST AID MEASURES

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting. Give several glasses of water. Seek medical attention.

Inhalation: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

Skin Contact: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before reuse.

Eye Contact: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

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5. FIRE FIGHTING MEASURES

Flash Point: Less than 0°F (Propellant) Method: Tag closed cup

Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical

Special Firefighting Procedures:	Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool containers to prevent pressure build up and possible autoignition or explosion when wxposed to extreme heat.
Hazardous Products formed by Fire or Thermal Decomp	Irritating organic vapors; oxides of carbon.
Unusual Fire or Explosion Hazards:	Closed containers may explode (due to build-up of pressure) when exposed to extreme heat. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may expode when exposed to extreme heat. Application to hot requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent.
Explosive Limits:	
(% by volume in air)Lower	1.1%
(% by volume in air)Upper	57.0%

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:	Remove all sources of ignition. Maintain good ventilation. Soak up with an inert absorbent. Store in a closed container until disposal.

7. HANDLING AND STORAGE

Safe Storage:	Keep away from heat, sparks, and open flame.
(Contact Loctite Customer	Service 1-800-243-4874 for shelf life information)
Handling:	Keep away from heat, sparks or open flame. Vapors will accumulate readily and may ignite explosively Keep away from eyes. Avoid breathing of vapor and mists.Avoid skin contact. During use and until all vapors are gone: Keep area ventilated. Do not smoke. Extinguish all flames, pilot lights, and heaters. Turn off stoves, electric tools and appliances, and other sources of ignition. Consult NFPA Code. Use approved bonding and grounding

7. HANDLING AND STORAGE (continued)

procedures. Do not puncture, incinerate, or expose to temperature above 120°F. Heat from sunlight radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out ot the reach of children Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Wash hands after using.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes:	Wear safety spectacles with unperforated sideshields.
Skin:	Chemical resistant gloves.
Ventilation:	Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.
Respiratory	If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II. When sanding, wirebrushing, abrading burning or welding the dried film, wear a particulate respirator approved by OSHA/MSHA for protection against non-volatile materials in Section II.

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light brown liquid
Odor:	Pungent
Boiling Point:	Range: Less than 0°F to 340°F.
pH:	Not available
Solubility in Water:	Not available
Specific Gravity	0.76 (Base only)
Volatile Organic Compound (EPA Method 24)	50.4%; 378 grams per liter of material (Less federally exempt solvents)
Vapor Pressure:	Not available
Vapor Density:	More than 1 (base only)
Evaporation Rate (Ether = 1)	Faster

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10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will not occur
Incompatibility:	None
Conditions to Avoid:	Not available
Hazardous Decomposition Products (non-thermal):	None

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal:	Do not incinerate. Depressurize container. Dispose of in accordance with federal, state and and local regulations.
EPA Hazardous Waste Number	D001 - Hazardous waste per 40CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)	
Domestic Ground Transport	
Proper Shipping Name:	Consumer Commodity
Hazard Class or Division:	ORM-D
Identification Number:	None
Marine Pollutant:	None
IATA	
Proper Shipping Name:	Consumer Commodity (Not more than 500 ml); Aerosols, flammable n.o.s. (More than 500 ml)
Class or Division:	Class 9 (Not more than 500 ml); Division 2.1 (More than 500 ml)
UN or ID Number:	ID 8000 (Not more than 500 ml); UN 1950 (More than 500 ml)

15. REGULATORY INFORMATION

CA Proposition 65:	WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Ethylene oxide (trace amount)

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16. OTHER INFORMATION

Estimated NFPA(R) Code:	
Health Hazard:	2
Fire Hazard:	3
Reactivity Hazard:	1
Specific Hazard:	Does not apply
Estimated HMIS(R) Code:	
Health Hazard:	2*
Flammability Hazard:	3
Reactivity Hazards:	1
Personal Protection:	See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

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