

MATERIAL SAFETY DATA SHEET
Cortec, Spray Technologies Division
1300 South River Street
Spooer, WI 54801

PHONE: 715-635-8711 TOLL FREE 1-800-826-6791

FAX: 715-635-2200

EMERGENCY PHONE NO.: (FOR SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT): 1-800-535-5053

***** RIP-1 PENETRATING LUBE 37001*****
**

SECTION I - PRODUCT IDENTIFICATION

PRODUCTNAME: RIP-1 Penetrating Lube (aerosol)
PRODUCT DESCRIPTION: A great penetrating lube and thin-film moisture displacing rust preventative. Excellent when used for cleaning and lubricating a wide range of equipment and machinery. **Extremely flammable – not for use on, or near, energized equipment!**

RESTRICTIONS: Non-restricted

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME(S)	CAS#	OCCUPATIONAL EXPOSURE LIMITS	
		TLV OR PEL	ORAL LD-50
Mineral Spirits	64742-88-7	100 ppm	N.E.
Petroleum Oil Base Stock	64742-52-5	5mg/m3	N.E.
Propane	74-98-6	1000 ppm	N.E.
Isobutane	75-28-5	800 ppm	N.E.

Carcinogenic: OSHA = No NTP = No IARC = No

SECTION III - PHYSICAL DATA

APPEARANCE: Straw to amber colored liquid
ODOR: Mild
BOILING POINT: 180 degrees F (149 degrees C.)
VAPOR DENSITY: (Air=1): 4.8
VAPOR PRESSURE: 1550 mmHg
SOLUBILITY IN WATER: Nil
SPECIFIC GRAVITY: 0.90
EVAPORATION RATE (Ether = 1): <0.1

SECTION IV - FIRE AND EXPLOSION DATA

HMIS RATING: Health – 1, Fire – 4, Reactivity - 0
FLASH POINT: -134 degrees F. (propellant)
FLAMMABLE LIMITS: LEL: 1.8 UEL: 9.5
EXTINGUISHING MEDIA: Dry chemical, foam, CO2.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable solvent/propellant mixtures. V, heavier than air, may travel considerable distances along floors to distant ignition sources where they may flash or explode. Heated containers may become over-pressurized to fail explosively.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water fog.

SECTION V - HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:
Eye Contact: Flush eyes with water for at least 15 minutes. Consult a physician. Skin Contact: Wash affected area with soap and water. If irritation develops or persists, consult a physician. Inhalation: Remove victim to fresh air,

administer oxygen if necessary. If victim has stopped breathing begin CPR, get immediate medical attention. Ingestion: If material is swallowed, DO NOT induce vomiting unless physician directed. If spontaneous vomiting occurs, keep victim's head below hips to prevent aspiration of vomitus into the lungs. MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Pre-existing skin conditions
PRIMARY ROUTES OF ENTRY: Inhalation, skin and eye contact.

HEALTH HAZARDS (acute and chronic) / EFFECTS OF OVEREXPOSURE: Excessive inhalation of high vapor concentrations may cause dizziness, weakness, fatigue, nausea, headache, unconsciousness. or with extreme inhalation overexposure, asphyxiation. Aspiration of this material into lungs may cause severe lung damage which can result in death.

SECTION VI - REACTIVITY DATA

STABILITY: Stable under normal use and storage conditions.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS (under fire conditions): Oxides of carbon
INCOMPATIBILITY: Avoid strong oxidizers, halogens, inorganic acids, aldehydes and halogen compounds.
CONDITIONS TO AVOID: Avoid heat, flame, and all ignition sources. Avoid dust or mist formations.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Immediately extinguish ignition sources, ventilate area. Take up spilled material on an inert, absorbent material and place into a DOT approved closed-top waste container for disposal.
WASTE DISPOSAL: Dispose of waste or unwanted product in accordance with existing Federal, State and Local environmental regulations. May be reclaimed or incinerated.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally required; mechanical (general) ventilation is generally adequate. A NIOSH approved organic respirator is recommended for nuisance-level vapors, a positive-pressure, air supplied respirator should be worn in high vapor concentrations and oxygen-deficient atmospheres.
PROTECTIVE GLOVES: Petroleum resistant gloves
EYE PROTECTION: Safety glasses, splash goggles, face shield
OTHER PROTECTIVE EQUIPMENT: Eye wash station.

SECTION IX - SPECIAL PRECAUTIONS AND STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid eye and skin contact with liquid. Avoid inhalation of vapors or aerosols. Use in a well-ventilated environment. Intentional inhalation of contents is harmful and may be fatal.
PRECAUTIONS TO BE TAKEN IN STORING: Store containers below 120°F (48°C), away from heat sources, open flame and out of direct sunlight.

SECTION X – SHIPPING DATA

U.N./N.A NUMBER: UN1950
DOT/IATA SHIPPING NAME: Aerosols, flammable, (each not exceeding 1L capacity)
DOT/IATA HAZARD CLASS: 2.1
DOT/IATA REQUIRED LABELS: 2, flammable gas (air shipment only)
DOT EXCEPTION: See Code 49 section 172.101, Column (8A). Section 173.306(h) permits "limited quantity" materials

(continued on page 2)

Page 2

RIP-1 Penetrating Lube 37001

(inner packagings which do not exceed 1L capacity / 61 cubic inches and for which internal pressures do not exceed 180 psig at 130 degrees F.) meeting section 171.8 definition of "consumer commodity" to be renamed "Consumer commodity", reclassified as ORM-D when shipped via ground mode, domestically.

IMDG SHIPPING NAME: Aerosols, flammable, (each not exceeding 1L capacity)

FREIGHT CLASS: NMFC 155250

LTL: 65

TL: 35

MW: 30

T.S.C.A. STATUS: All components listed

PREPARED BY: Roger Hanson

DATE PREPARED: 01-26-00 SUPERSEDES: 01-13-00

DISCLAIMER: This information is furnished without warranty, expressed, or implied, except that it is accurate to the best knowledge of Cortec, Spray Technologies Division. The data on this sheet relates only to the specific material designated herein. Cortec, Spray Technologies Division assumes no legal responsibility for use or reliance upon this data.

N.E. = NOT ESTABLISHED

N.A. = NOT APPLICABLE