

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

***** RIP-2 37002 *****

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: RIP-2 Moisture Displacer and Corrosion Preventative (aerosol)
 PRODUCT DESCRIPTION: A superior petroleum-based moisture displacer / corrosion preventing penetrant and lubricant. Ideal for OEM, industrial, institutional and home (consumer) use. **Extremely flammable – not for use on energized equipment!**
 RESTRICTIONS: Non-restricted

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME(S)	CAS#	OCCUPATIONAL EXPOSURE LIMITS	
		TLV OR PEL	ORAL LD-50
Stoddard Solvent	8052-41-3	100 ppm	N.E.
Heavy Naphthenic Distillate	64742-52-5	5 mg/m3	N.E.
Propane	74-98-6	1000 ppm	N.E.
Isobutane	75-28-5	800 ppm	N.E.
2-Butoxy-ethanol	111-76-2	25 ppm	N.E.

Carcinogenic: **OSHA = No** **NTP = No** **IARC = No**

SECTION III - PHYSICAL DATA

APPEARANCE: Transparent, amber colored liquid
 ODOR: Hydrocarbon odor
 BOILING POINT: 245 degrees F. (118.33 degrees C.)
 VAPOR DENSITY: (Air = 1): >1
 VAPOR PRESSURE: 2070 mmHg
 SPLUBILITY IN WATER: Nil
 SPECIFIC GRAVITY: 0.69
 EVAPORATION RATE (Ether = 1): < 0.1

SECTION IV - FIRE AND EXPLOSION DATA

HMIS RATING: Health - 1, Fire - 3, Reactivity – 0
 FLASH POINT: -100 degrees F. for propellant, lowest flashing component (estimation).
 FLAMMABLE LIMITS: LEL: 1.9 UEL: 9.5
 EXTINGUISHING MEDIA: Dry chemical, foam, CO2
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable vapors are heavier than air, may travel to ignition sources distant from point of material handling where they may be ignited by pilot lights, fires, sparks, heaters, electric motors, static discharge or other ignition sources. Heated containers may become over-pressurized and fail explosively.
 SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus and protective clothing. Cool fire-exposed aerosols 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: Rinse affected area with water. If irritation develops or persists, consult a physician.
Inhalation: Move victim to fresh air, administer oxygen if necessary. If victim has stopped breathing begin CPR. Get immediate medical attention.
Ingestion: If material is swallowed, consult a physician immediately. DO NOT induce vomiting unless physician directed. If spontaneous vomiting occurs, keep victim's head below hips to prevent aspiration of vomitus into 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. Extreme inhalation overexposure may cause asphyxiation. Aspiration of this material into lungs can cause chemical pneumonitis which may be fatal.

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, acids, base materials.
 CONDITIONS TO AVOID: Contents are flammable. Avoid heat, flame, sparks, other potential ignition sources.

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 waste container for disposal. Prevent spilled material from entering sewers or drains.
 WASTE DISPOSAL: Dispose of waste or unwanted product in accordance with existing Federal, State or Local environmental regulations. Waste may be reclaimed or incinerated by permitted facilities.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally required; mechanical (general) ventilation is generally adequate. Wear a NIOSH approved organic vapor respirator in nuisance-level vapor concentrations, a positive-pressure, air-supplied respirator in high vapor concentrations or oxygen-deficient atmospheres.
 PROTECTIVE GLOVES: Chemical resistant vinyl or plastic.
 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. Avoid excessive inhalation of vapors. 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 or ignition sources, open flame, out of direct sunlight.

SECTION X – SHIPPING DATA

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RIP-2 Moisture Displacer & Corrosion Preventative 37002

U.N./N.A NUMBER: UN1950

DOT/IATA SHIPPING NAME: Aerosols, flammable, (each not exceeding 1L capacity)

DOT/IATA HAZARD CLASS: 2.1

DOT EXCEPTION: See Code 49 section 172.101, Column (8A). Section 173.306(h) permits "limited quantity" materials (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: 03-21-00 SUPERSEDES: 01-26-00

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N.E. = NOT ESTABLISHED

N.A. = NOT APPLICABLE