

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

***** RIP-4 37004*****

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: RIP-4 Outdoor Rust Preventative (aerosol)
 PRODUCT DESCRIPTION: This premier quality hydrocarbon based corrosion preventive product provides a heavy "wax-type" barrier coating for exceptional, long-term protection of outdoor equipment under the most severe of climactic conditions. It is an excellent choice for use in salt water and/or fresh water marine applications as it protects exceptionally well against salt sprays and will outlast all asphalt-type undercoating products. Performs extremely well when used to undercoat auto and truck bodies and is highly desirable when used in all other applications where use of asphalt based undercoating products is objectionable.

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
Aliphatic Mineral Spirits	64742-88-7	525 mg/m3	N.E.
Heptane	142-82-5	400 ppm	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: Amber to brown color liquid
 ODOR: Mild hydrocarbon odor
 BOILING POINT: 105 Degrees F. (40.5 degrees C..)
 VAPOR DENSITY (Air = 1): 3
 VAPOR PRESSURE: 2070 mmHg
 SOLUBILITY IN WATER: Nil
 SPECIFIC GRAVITY: 1.0
 EVAPORATION RATE (Ether = 1): 0.5

SECTION IV - FIRE AND EXPLOSION DATA

HMIS RATING: Health – 1, Fire – 3, Reactivity - 0
 FLASH POINT: 120 degrees F. (49 degrees C.) TCC method
 FLAMMABLE LIMITS: LEL: N.E. UEL: N.E.
 EXTINGUISHING MEDIA: Dry chemical, foam CO2, or water fog.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Spray is extremely flammable; flammable vapors, heavier than air, may travel considerable distances to ignition sources to flash or explode. SPECIAL FIRE FIGHTING PROCEDURES: Firefighters 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: Wash skin 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: Consult a physician immediately. DO NOT induce vomiting unless physician directed. If spontaneous vomiting occurs, keep victim's head below hips to prevent aspiration into the lungs. Get immediate medical attention. Product contains petroleum distillates which are harmful or fatal if swallowed.
 MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Pre-existing skin conditions, liver conditions or kidney conditions.
 PRIMARY ROUTES OF ENTRY: Inhalation, skin and eye contact.
 HEALTH HAZARDS (acute and chronic) / EFFECTS OF OVEREXPOSURE: Excessive, acute overexposures by inhalation of vapor concentrations may cause dizziness, weakness, fatigue, nausea, headache, unconsciousness, or in extreme overexposures, asphyxiation. Effects of chronic, long-term exposures are not well defined.

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, oxides of sulfur.
 INCOMPATIBILITY: Avoid strong oxidizing materials and strong alkalies.
 CONDITIONS TO AVOID: Avoid heat, flame, all potential ignition sources.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove ignition sources, ventilate area. Take up spill on an inert absorbent material and place into a DOT approved closed-top waste container for disposal. Prevent spilled material from entering sewers or drains.
 WASTE DISPOSAL: Dispose of waste or unwanted material in accordance with existing Federal, State and Local environmental regulations. 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 respirator for nuisance-level vapors, a positive pressure, air-supplied respirator in high vapor concentrations or oxygen-deficient atmospheres.
 PROTECTIVE GLOVES: Chemical resistant / oil impervious 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. Avoid excessive inhalation of vapors. Avoid mist formations. Use in a well-ventilated environment. Intentional inhalation of contents is harmful and may be fatal.

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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

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 (inner packagions 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.

FREIGHT CLASS: NMFC 50234, Sub 2

LTL: 77.5

TL: 35

MW: 36

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

PREPARED BY: Roger Hanson

DATE PREPARED: 02-25-00

SUPERCEEDS: 01-10-00

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N.E. = NOT ESTABLISHED

N.A. = NOT APPLICABLE