



Material Safety Data Sheet

Section 1 — Chemical Product And Company Identification

Manufacturer: LHB Industries Emergency Telephone Number (800) 424-9300 (Chemtrec)
8833 Fleischer Place Information Telephone Number (314) 423-4333
Berkeley, MO 63134 Date of Preparation March 27, 2008

Product ID: Corrosion Preventive Compound, Aerosol
Specification: MIL-C-85054B Type I Class 134A
LHB Part Number: 0934---000
National Stock Number: 8030-01-347-0979
CAGE Code: OFTT5
Contract No.: GS-10F-40540

Section 2 — Composition / Information On Ingredients

CAS No.	Ingredient	Wt%	ACGIH TLV <STEL>	OSHA PEL <STEL>
67-63-0	Isopropyl Alcohol	19.0	400 ppm	400 ppm
811-97-2	1,1,1,2-tetrafluoroethane	16.0	NE	NE
8032-32-4	VM&P Naphtha	15.0	300 ppm	300 ppm
8030-30-6	Solvent Naphtha	8.0	NE	100 ppm
107-98-2	1-Methoxy-2-propanol	7.0	100 ppm	100 ppm
78-83-1	Isobutyl Alcohol	7.0	50 ppm	50 ppm
108-88-3	Toluene	<4.0	50 ppm	100 ppm
71-36-3	n-Butyl alcohol	<4.0	100 ppm	50 ppm
64741-65-7	Solvent Naphtha	<3	300 ppm	NE
25619-56-1	Barium Dinonylnaphthalenesulfonate	<1.0	NE	NE

Section 3 — Hazards Identification

ROUTES OF EXPOSURE: 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.

EFFECTS OF OVEREXPOSURE: Irritation of eyes, skin and upper respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: 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.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None generally recognized.

CANCER INFORMATION: For complete discussion of toxicology data refer to Section 11.

Section 4 — First Aid Measures

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

SKIN CONTACT: Remove contaminated clothing and launder before reuse. Wash with soap and water.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention after flushing.

INGESTION: DO NOT INDUCE VOMITING. Give nothing by mouth. Get immediate medical attention.

Section 5 — Fire Fighting Measures

FLASH POINT 55 °F LEL: ND UEL: ND

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemicals, Foam

SPECIAL EXPOSURE HAZARDS: Do not expose to temperatures over 120°F. Keep away from heat, sparks and flame. Containers may explode when exposed to extreme heat. Applications to hot surfaces require special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL PROTECTIVE EQUIPMENT: Water may be used to keep fire-exposed containers cool. Fire fighters should wear full protective clothing, including self-contained breathing equipment.

NFPA RATING: HEALTH 2, FLAMMABILITY 4, REACTIVITY 0

HMS CLASSIFICATION: HEALTH 2, FLAMMABILITY 4, REACTIVITY 0

Section 6 — Accidental Release Measures

PERSONAL PRECAUTIONARY MEASURES: Avoid inhalation. Use good ventilation. Read entire label before using and follow all label directions.

ENVIRONMENTAL PRECAUTIONARY PROCEDURE FOR CLEANING/ABSORPTION: Dispose of in accordance with applicable Federal, State & Local regulations. Remove ignition sources and work with non-sparking tools. Use oil absorbent materials.

Section 7 — Handling and Storage

HANDLING: Keep out of reach of children. Keep away from heat sparks, and open flame. 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 any other source of ignition. Consult NFPA Code. Use approved Bonding and Grounding procedures. Contents under pressure. Do not puncture, incinerate, or expose to temperatures above 120°F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally.

STORAGE: CATEGORY – NFPA 30B Level 2 Aerosol

Do not store where temperatures may exceed 120°F (48.9°C).

Section 8 — Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Local Exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

RESPIRATORY PROTECTION: If personal exposure cannot be controlled to below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

GLOVES: None required for aerosol products where a minimal skin contact is expected. For long or repeated contact wear chemical resistant gloves.

SKIN PROTECTION: Impervious clothes to protect skin. Wash promptly when skin becomes contaminated.

EYES: Safety glasses with side shields or chemical goggles.

OTHER PERSONAL PROTECTION DATA: Use only with adequate ventilation. Avoid contact with skin and eyes. Wash hands after using.

Material Safety Data Sheet

Section 9 — Physical and Chemical Properties

PHYSICAL STATE: Liquid/Gas
 COLOR: Dark Blue
 ODOR: Solvent
 SPECIFIC GRAVITY: 0.882
 DENSITY: 7.36 lb/gal
 VAPOR DENSITY (AIR=1): >1 (Heavier than Air)
 SOLUBILITY IN WATER: Insoluble

Section 10 — Stability and Reactivity

CHEMICAL STABILITY: Stable
 HAZARDOUS POLYMERIZATION: Will not occur
 CONDITIONS TO AVOID: Do not expose to heat or store at temperature above 120°F
 MATERIAL TO AVOID: Strong acids. Oxidizing agents.
 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, and Carbon Dioxide

Section 11 — Toxicological Information

CHRONIC HEALTH HAZARDS:
 Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects of the liver, urinary and blood forming systems.
 Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA (listed if available)

CAS No.	Component	LC50	RAT	4HR	4000 ppm
108-88-3	Toluene	LD50			5000 mg/kg
107-98-2	1-Methoxy-2-propanol	LD50			6600 mg/kg

Section 12 — Ecological Information

ECOLOGICAL INFORMATION: No data available

Section 13 — Disposal Considerations

DISPOSAL OF WASTE METHOD: Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section 14 — Transport Information

U.S. DOT: 49 CFR 172.101 Hazardous Materials Table
 PROPER SHIPPING NAME: Consumer Commodity
 HAZARD CLASS OR DIVISION: ORM-D

ATA: List of Dangerous Goods

PROPER SHIPPING NAME: Aerosols, flammable
 HAZARD CLASS OR DIVISION: 2.1
 IDENTIFICATION NUMBER: UN1950

IMDG: International Maritime Dangerous Goods

PROPER SHIPPING NAME: Aerosols
 HAZARD CLASS OR DIVISION: 2
 IDENTIFICATION NUMBER: UN1950

Section 15 — Regulatory Information

U.S. REGULATORY RULES
 SARA SECTION 302: None
 SARA 313 CHEMICALS: Toluene, n-Butyl Alcohol
 CALIFORNIA PROPOSITION 65: Toluene
 RCRA STATUS: This material is classified as a hazardous waste.
 TSCA CERTIFICATION: All chemicals in this product are listed, or are exempt from listing on the TSCA Inventory.

VOC CONTENT: 60% by wt, 529 g/L

HAZARDOUS AIR POLLUTANTS (Clean Air Act, Section 112(b))
 HAPS (lbs/gal): ND
 HAPS (lbs/gal of Solids): ND
 HAPS (lbs/lb of Solids): ND

Section 16 — Other Information

REVISION NUMBER: 04

ADDITIONAL INFORMATION: This MSDS is prepared in accordance with FED-STD-313D and meets the requirements of 29 CFR 1910.1200.

IMPORTANT NOTE: This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or any process. Final determination of suitability of any material is the sole responsibility of the user.

Prepared by: Mark Epstein, R&D Manager

*** END OF MSDS***