




MATERIAL SAFETY DATA SHEET

Protective Clothing	NFPA Rating (USA)	EC Classification	WHMIS (Canada)	Transportation
Not Required for Normal Use		 Harmful	 B3	Not Regulated (See Section 14)

Section 1: Product and Company Information

Product Name:	RUST BUSTER® Rust Penetrant
Product Code:	79706
Product Use:	Loosens rusted bolts, screws, shafts, piping and all types of "frozen" connections and assemblies.
Manufacturer:	LA-CO Industries, Inc. 1201 Pratt Boulevard Elk Grove Village, IL. 60007-5746
Phone Number:	(847) 956-7600
Fax:	(847) 956-9885
24-hour Emergency:	CHEMTREC: (800) 424-9300

Section 2: Composition and Ingredient Information
Hazardous/Dangerous Ingredients:

Chemical Name	CAS No.	Wt. %	EINECS / ELINCS	Symbol	Risk Phrases
Distillates (petroleum), hydrotreated light	64742-47-8	100	265-149-8	Xn	R65

Note: See Section 8 of this MSDS for exposure limit data for these ingredients.
See Section 16 for the full text of the R-phrases above.

MATERIAL SAFETY DATA SHEET**Section 3: Hazards Identification****Preparation Hazards and Classification:**

Harmful: may cause lung damage if swallowed.

USA: This product is a hazardous material as defined by 29 CFR1910.1200, OSHA Hazard Communication Evaluation.

Canada: This is a controlled product under WHMIS.

European Communities (EC): This product is classified as dangerous according to Directive 1999/45/EC and its amendments. Classification: Harmful

Appearance, Color and Odor:

Clear, colorless liquid; hydrocarbon odor.

Primary Route(s) of Exposure:

Inhalation, skin contact, eye contact.

Potential Health Effects:

ACUTE (short term): see Section 8 for exposure controls

Inhalation: Inhalation of hazardous vapors is not expected with normal use of the marker. This product does not easily form a vapor. Therefore, inhalation exposure is unlikely to occur, unless this material is heated or misted. Exposures to high vapor or mist concentrations can cause central nervous system depression. Symptoms of central nervous system (CNS) depression include dizziness, headache, nausea, fatigue, vomiting and loss of coordination.

Ingestion: Not an expected route of exposure with normal use of the product. Harmful if aspirated into the lungs during swallowing and vomiting. Aspiration into the lungs may cause pulmonary edema, a life-threatening condition; symptoms of pulmonary edema may be delayed several hours.

Skin: Product may cause mild to moderate skin irritation.

Eye: Direct contact with the liquid may cause irritation.

CHRONIC (long term): see Section 11 for additional toxicological data

Repeated or prolonged skin contact may cause dermatitis, with redness, blisters, cracking and swelling of the skin.

Medical Conditions**Aggravated by Exposure:**

Skin contact may aggravate an existing dermatitis.

Section 4: First Aid Measures**Inhalation:**

If symptoms are experienced, remove source of contamination or have victim move to fresh air. Obtain medical advice.

Eye Contact:

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes while holding the eyelids open. If irritation persists, obtain medical attention

Skin Contact:

No health effects expected. If irritation does occur flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

Ingestion:

Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING. Have victim drink 60 to 240 mL (2 to 8 oz) of water. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Have victim rinse mouth with water again. Immediately obtain medical attention.

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Section 5: Fire Fighting Measures

- Extinguishing Media:** Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.
- Unusual Fire and Explosion Hazards:** Combustible liquid. Liquid can float on water and may travel to distant locations and/or spread fire. Containers may rupture violently when exposed to fire or excessive heat for sufficient time.
 Flashpoint: 63°C (146°F)
 Sensitivity to mechanical impact: Not expected to be sensitive
 Sensitivity to static discharge: May be sensitive
- Fire Fighting Instructions:** Fight fire from a safe distance or protected location. Approach fire from upwind to avoid toxic decomposition products. Self-contained breathing apparatus and protective clothing should be worn. Closed containers may rupture violently when exposed to heat of fire. If possible, isolate materials not yet involved in the fire, and move containers from fire area if this can be done without risk, and protect personnel. Otherwise, fire-exposed containers should be cooled by application of hose streams.
- Hazardous Combustion Products:** Combustion may produce carbon dioxide, carbon monoxide, toxic and irritating gases.

Section 6: Accidental Release Measures

- Personal Precautions:** Avoid contact with skin and eyes.
- Environmental Precautions:** Bulk releases are not anticipated under normal conditions. Prevent the liquid from entering sewers or waterways.
- Methods for Containment:** Stop the leak if it is safe to do so.
- Methods for Clean-up:** Soak up any spilled ink with an inert absorbent material. Put material in suitable, covered, labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product.

Section 7: Handling and Storage

- Handling** This material is a combustible liquid. Do not use near ignition sources (e.g. sparks, open flames, extremely hot surfaces, welding operations). Keep away from extreme heat. Keep away from children. Avoid contact with skin and eyes.
- Storage:** Store in a cool, well-ventilated area, out of direct sunlight and away from heat and ignition sources. Keep containers tightly closed when not in use.

Section 8: Exposure Controls and Personal Protection

Exposure Limits

<u>Ingredient</u>	<u>ACGIH TLV (8-hr. TWA)</u>	<u>U.S. OSHA PEL (8-hr. TWA)</u>	<u>Ontario (Canada) TWA EV</u>	<u>UK OEL (8-hr. TWA)</u>
Distillates (petroleum), hydrotreated light	200 mg/m ³ Skin	Not established	200 mg/m ³ Skin	Not available

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Exposure Controls

Engineering Controls: Provide adequate ventilation to keep vapor concentrations below the exposure limits listed above.

Personal Protection:

Respiratory Protection: Not required for normal use.

Skin Protection: Not required for normal use. Wear gloves when needed to prevent repeated or prolonged skin contact.

Eye Protection: Not required for normal use.

Other Protective Equipment: Not required.

Hygiene Measures: Avoid breathing vapors. Keep container tightly closed when not in use. Keep out of reach of children.

Section 9: Physical and Chemical Properties

<u>Physical State:</u>	Liquid	<u>Vapor Pressure:</u> (mm Hg @ 20°C)	1.1 @ 37°C (100°F)
<u>Appearance:</u>	Clear, colorless	<u>Vapor Density:</u> (Air = 1)	5.2
<u>pH:</u>	Not available	<u>Solubility in Water:</u>	Insoluble
<u>Relative Density:</u> (water = 1)	0.809 @ 15°C (60°F)	<u>Water / Oil distribution coefficient:</u>	Not available
<u>Boiling Point:</u>	186-207°C (368-405°F) @ 15°C (60°F)	<u>Odor Type:</u>	Hydrocarbon odor
<u>Freezing Point:</u>	<-75°C (-103°F)	<u>Odor Threshold:</u>	Not available
<u>Viscosity:</u>	1.8cSt @ 21°C (70°F) 1.4 cSt @ 37°C (100°F)	<u>Evaporation Rate:</u> (n-Butyl Acetate = 1)	Not available
<u>Oxidizing Properties:</u>	Not available	<u>Auto Ignition Temperature (°C):</u>	Not available
<u>Flash Point and Method:</u>	63°C (146°F)	<u>Flammability Limits (%):</u>	Lower: 0.7 vol. % Upper: 7 vol. %
<u>VOC (wt %):</u>	100%	<u>Partition Coefficient (n- octanol/water):</u>	Not available

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Section 10: Stability and Reactivity

<u>Stability:</u>	Stable at normal room temperature.
<u>Conditions to Avoid:</u>	Open flames, sparks, static discharge, extreme heat and other ignition sources.
<u>Incompatible Materials:</u>	Incompatible with strong oxidizing agents.
<u>Hazardous Decomposition Products:</u>	Carbon monoxide and carbon dioxide.
<u>Possibility of Hazardous Reactions:</u>	Hazardous polymerization will not occur.
<u>Other Reactivity Concerns:</u>	Not available

Section 11: Toxicological Information

Acute Toxicity Data

<u>Ingredient</u>	<u>LD₅₀ Oral</u> (mg/kg)	<u>LD₅₀ Dermal</u> (mg/kg)	<u>LC₅₀ Inhalation</u> (4 hrs.)
Distillates (petroleum), hydrotreated light	>5 000 (rat)	>2 000 (rabbit)	>2 mg/L (rat)

Chronic Toxicity Data

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

<u>Ingredient</u>	<u>ACGIH</u>	<u>IARC</u>	<u>NTP</u>
Distillates (petroleum), hydrotreated light	A3	Not listed	Not listed

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3: Substance is carcinogenic in laboratory animals under conditions that are not considered relevant to worker exposure.

IARC: (International Agency for Research on Cancer)

NTP: (National Toxicity Program)

<u>Irritation:</u>	Contact with the skin may cause mild to moderate irritation. Direct eye contact may cause irritation.
<u>Sensitization:</u>	Not applicable
<u>Neurological Effects:</u>	Not applicable
<u>Teratogenicity:</u>	Not applicable
<u>Reproductive Toxicity:</u>	Not applicable
<u>Mutagenicity (Genetic Effects):</u>	Not applicable
<u>Toxicologically Synergistic Materials:</u>	Not available

MATERIAL SAFETY DATA SHEET**Section 12: Ecological Information**

<u>Ecotoxicity:</u>	Not available
<u>Mobility:</u>	Not available
<u>Persistence and degradability:</u>	Not available
<u>Bioaccumulative potential:</u>	Not available
<u>Other adverse effects:</u>	Not available

Section 13: Disposal Considerations

<u>Waste Disposal Method:</u>	Do NOT dump into any sewers, on the ground or into any body of water. Store material for disposal as indicated in Section 7 Handling and Storage.
<u>USA:</u>	Dispose of in accordance with local, state and federal laws and regulations. RCRA Code: None
<u>Canada:</u>	Dispose of in accordance with local, provincial and federal laws and regulations.
<u>EC:</u>	Waste must be disposed of in accordance with relevant EC Directives and national, regional and local environmental control regulations. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

Section 14: Transport Information:

<u>U.S. Hazardous Materials Regulation (DOT 49CFR):</u>	This product is not regulated for transportation unless shipped in bulk (greater than 119 gallons/450 L).
<u>Canadian Transportation of Dangerous Goods (TDG):</u>	Not regulated
<u>ADR/RID:</u>	Not regulated
<u>IMDG:</u>	Not regulated
<u>Marine Pollutants:</u>	Not applicable
<u>ICAO/IATA :</u>	Not regulated

MATERIAL SAFETY DATA SHEET**Section 15: Regulatory Information****NFPA Hazard Rating****USA**

TSCA Status: All ingredients in the product are listed on the TSCA inventory.

SARA Title III:

Sec. 302/304: None

Sec. 311/312: None

Sec. 313: None

CERCLA RQ: None

California Prop 65 : This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

State Right-to-Know Lists : Texas – Effects Screening Levels – Short Term: Isopar M, 3500 µg/m³ ESL
Texas – Effects Screening Levels – Long Term: Isopar M, 350 µg/m³ ESL

Canada

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

WHMIS Classification:



B3 – Combustible Liquid

NSNR Status (New Substance Notification Regulations):

All ingredients in the product are listed on Canada's Domestic Substances List (DSL).

NPRI Substances (National Pollutant Release Inventory):

Canada 2006 NPRI, Hydrotreated light distillate: Part 5 Substance

EC Classification for the Substance/Preparation:

Symbol:



Harmful

Risk Phrases: R65: Harmful: may cause lung damage if swallowed.

Safety Phrases:

S2: Keep out of reach of children.

S23: Do not breathe fumes, vapours or spray.

S24: Avoid contact with skin.

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

MATERIAL SAFETY DATA SHEET**Section 16: Other Information****Full Text of R-phrases
appearing in Section 2:**

R65: Harmful: may cause lung damage if swallowed.

Preparation Information:**Preparation Date:**

January 11, 2007

Revision Date:

Not applicable, new MSDS

Revision Summary:

Not applicable

Prepared by:LEHDER Environmental Services Limited
704 Mara Street, Suite 210, Pt. Edward, ON
N7V 1X4
www.lehder.com**Phone:**

(519) 336-4101

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