

<p align="center">NFPA</p> <p align="center">Flammability</p> <div align="center"> </div> <p align="center">Health Reactivity</p> <p align="center">0 = Minimal Hazard 4 = Severe Hazard</p>	<p>MATERIAL SAFETY DATA SHEET* (MSDS)</p> <p>Ladd Research, 83 Holly Court, Williston, VT 05495 Tel: (802) 658-4961 Fax: (802) 660-8859</p> <p>P-80[®] IFC</p> <p>RUBBER LUBRICANT EMULSION Incidental Food Contact (IFC) Formula Temporary Lubricating Agent</p>	<p align="center">HMIS</p> <p align="right">Health – 1 Flammability – 0 Reactivity – 0 Personal Protection – B</p> <p>0 = Minimal Hazard 4 = Severe Hazard B = Safety Glasses & Gloves</p>
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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME P-80[®] Rubber Lubricant Emulsion
Incidental Food Contact (IFC) Formula

CHEMICAL FAMILY Synthetic Esters/Water

CHEMICAL NAME Liquid Emulsion

ISSUE DATE OF MSDS 9/2011

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4. FIRST AID MEASURES

EYE CONTACT Immediately flush eyes with plenty of water. Get medical attention if irritation develops or persists.

SKIN CONTACT Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.

INHALATION No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of fumes, remove to fresh air. Get medical attention if cough or other symptoms develop.

INGESTION No specific treatment is necessary since this material is unlikely to be hazardous by ingestion. Call physician if pain or discomfort develops.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Contains a mixture of synthetic esters and water. Specific ingredients are withheld as trade secrets. Contains no hazardous ingredients in concentrations greater than 1%. All ingredients are referenced in 21 CFR 178.3570, "Lubricants with incidental food contact."

While this material is not considered hazardous under OSHA, WHMIS, or CHIPS, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of the product.

5. FIRE FIGHTING MEASURES

Nonflammable aqueous lubricant.

FLASH POINT None.

LFL Not applicable.

UFL Not applicable.

EXTINGUISHING MEDIA Use alcohol foam, carbon dioxide, or water spray to extinguish flames.

FIRE FIGHTING INSTRUCTION As in any fire, wear self-contained breathing apparatus, pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear. Water runoff may cause environmental damage. Dike and collect water used to fight fire.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

White to light beige emulsion with a mild, non-offensive odor. Nonflammable water-based product. NFPA rating of zero. No immediate hazards associated with the product.

POTENTIAL HEALTH EFFECTS

EYE CONTACT No hazard in normal industrial use.

SKIN CONTACT No hazard in normal industrial use.

INHALATION No hazard in normal industrial use.

INGESTION No hazard in normal industrial use.

CARCINOGENICITY:

NTP No ingredients are listed.

IARC No ingredients are listed.

OSHA No ingredients are listed.

CHRONIC EFFECTS Not determined.

TARGET ORGANS Not determined.

POTENTIAL ENVIRONMENTAL EFFECTS

None known.

6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately, observing precautions in Section 8 Personal Protection. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

7. HANDLING AND STORAGE

HANDLING Avoid contact with eyes, skin and clothing.

STORAGE Store in a cool place in original container and protect from sunlight. Keep container closed when not in use to prevent bacteria contamination. Mix before use.

SHELF LIFE One year from date of manufacture when stored in original sealed container at recommended storage temperature range.

STORAGE TEMPERATURE 2 – 30°C (36 – 86°F)

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

ENGINEERING CONTROLS No special ventilation requirements.

RESPIRATORY PROTECTION For most situations, no respiratory protection should be needed.

SKIN PROTECTION Wear chemical-resistant gloves.

EYE PROTECTION Wear safety glasses with side shields (or goggles). Contact lenses should not be worn.

GENERAL HYGIENE CONSIDERATIONS There are no known health hazards associated with this material when used as recommended. The following general hygiene considerations are recognized as common, good industrial hygiene practices:

- Wash hands after use and before eating.
- Avoid breathing vapors.
- Wear safety glasses and gloves.

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EXPOSURE LIMITS Not established for product as whole.

Ingredients	CAS #	ACGIH
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None established for individual components.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE White to light beige emulsion.

ODOR Mild, non-offensive odor.

pH (neat) 8.7 (typical)

BOILING POINT ca. 100°C (212°F)

FREEZING POINT ca. -8°C (18°F)

SOLUBILITY IN WATER Disperses

SPECIFIC GRAVITY (water = 1) 1.00 @ 25°C

VISCOSITY, 25°C ca. 120 cps
(Brookfield #2 Spindle, 100 RPM)

10. STABILITY AND REACTIVITY

STABILITY Stable emulsion.

HAZARDOUS POLYMERIZATION Will not occur.

INCOMPATIBILITIES Avoid contact with polycarbonate, acrylic, and polyphenylene ether (Noryl), as P-80 Emulsion IFC may cause these plastics to craze over time.

DECOMPOSITION PRODUCTS Not determined.

11. TOXICOLOGICAL INFORMATION

Eye: Not an irritant per 16 CFR 1500.42.
Skin: Not an irritant per 16 CFR 1500.41.
Oral: Non-toxic per 16 CFR 1500.3. LD₅₀ is greater than 5g/kg (rats).

12. ECOLOGICAL INFORMATION

Ecotoxicity has not been determined.
Contains no CFCs, phosphates, silicates, borates, halogens, or phenols.

13. DISPOSAL CONSIDERATIONS

P-80® Rubber Lubricant Emulsion IFC is not considered a hazardous waste under Federal Hazardous Waste Regulations 40 CFR 261. Please be advised, however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

(Note: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.)

14. TRANSPORTATION INFORMATION

A. USA

D.O.T. SHIPPING Not regulated.

TECHNICAL SHIPPING NAME Rubber Lubricant Emulsion.

D.O.T. LABEL None.

D.O.T. PLACARD None.

FREIGHT CLASS PACKAGE Class 65 — Rubber Lubricant.

PRODUCT LABEL Rubber Lubricant Emulsion.

B. CANADA: TDG Not regulated.

C. ENGLAND: APPROVED

CARRIAGE LIST Not regulated

15. REGULATORY INFORMATION

A. USA

TSCA STATUS All ingredients are listed on the TSCA inventory.

SARA TITLE III, 302/303 EHS None.

SARA TITLE III, 304, HS None.

SARA TITLE III, 313 None.

B. CANADA

DSL All ingredients are listed on the Domestic Substance List.

WHMIS Classification Not controlled.

C. EC

EINECS All ingredients are listed.

RoHS Directive P-80® Emulsion IFC does not contain any ingredients listed in 2002/95/EC.

D. CHIPS Not classified.

16. STATE REGULATORY INFORMATION

For details on specific requirements, you should contact the appropriate agency in your state.

17. OTHER INFORMATION

PREPARED BY K. Wyrofsky,
President

APPROVED BY T. McGuckin,
Vice President of Quality & Safety

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