





SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Name: Pierce
Product Code: 79711
Product Use: Rust remover, penetrant and lubricant
Supplier: LA-CO Industries, Inc.
 1201 Pratt Boulevard
 Elk Grove Village, IL.
 60007-5746
 E-mail Contact: customer_service@laco.com
Phone: (847) 956-7600
Fax: (847) 956-9885
24-hour Emergency: CHEMTREC: (800) 424-9300

Section 2: Hazards Identification

Protective Clothing	NFPA Rating (USA)	EC Classification	WHMIS (Canada)	Transportation
		 Extremely flammable	 A B5	Not Regulated

Emergency Overview:

Danger! Extremely flammable aerosol.
 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
 Do not spray on an open flame or other ignition source.
 Pressurized container: Do not pierce or burn, even after use.

Appearance, Color and Odor: Aerosol spray with a petroleum odor.

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: Extremely Flammable.

Potential Health Effects:

ACUTE (short term):

Relevant Route(s) of Exposure:

Inhalation, Skin and Eye contact.

Inhalation:

No adverse health effects when used according to label directions.
 Intentional misuse by deliberately concentrating and inhaling the vapors may be harmful or fatal.

Ingestion:

Not an applicable route of occupational exposure. Liquid product is harmful if swallowed.

Skin:

Repeated exposure may cause skin dryness or cracking.

Eye:

Contact with compressed or liquefied gas may cause freezing of the eye.

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

Repeated overexposure may cause permanent brain and nervous system damage, and may also cause damage to kidneys, lungs, liver, heart and blood.

Medical Conditions Aggravated by Exposure:

Skin contact may aggravate an existing dermatitis. Inhalation may aggravate asthma.

Interactions With Other Chemicals:

Not available

Potential Environmental Effects:

Prevent release to the natural environment. See Section 12.

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Section 3: Composition / Information on Ingredients

Hazardous/Dangerous Ingredients:

<u>Ingredient Name</u>	<u>CAS No.</u>	<u>Wt.%</u>	<u>EINECS / ELINCS</u>	<u>Symbol</u>	<u>Risk Phrases</u>
White mineral oil	8042-47-5	60 - 100	232-455-8	None	None
Sulfonic acids, petroleum, calcium salts	61789-86-4	1 - 3	263-093-9	None	None
Propane	74-98-6	10-16	200-827-9	F+	R12
n-Butane	106-97-8	3 - 5	203-448-7	F+	R12

See Section 16 for the full text of the R-phrases above.

Section 4: First Aid Measures

- Inhalation:** If symptoms are experienced remove source of contamination or move victim to fresh air and obtain medical advice.
- Eye Contact:** If irritation occurs, flush contaminated eye(s) with lukewarm, gently flowing water for 15 minutes. If irritation persists, obtain medical advice.
- 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:** In case of accidental ingestion, obtain medical advice immediately or contact a poison control center.

Section 5: Fire Fighting Measures

- Flammable Properties:** Extremely flammable aerosol.
- Suitable extinguishing Media:** Use CO₂, sand, extinguishing powder, water spray or alcohol resistant foam. Use water spray to cool fire-exposed containers.
- Unsuitable extinguishing Media:** Not available
- Explosion Data:**
- Sensitivity to Mechanical Impact:** Not applicable
- Sensitivity to Static Discharge:** Not applicable
- Specific Hazards arising from the Chemical:** During a fire, products of combustion may include carbon dioxide, carbon monoxide, smoke and irritating and toxic fumes.
When heated aerosol containers may rupture explosively (temperatures >48°C/120°F).
In use, product may form flammable or explosive vapor-air mixture.
- Protective Equipment and precautions for firefighters:** Self-contained breathing apparatus and protective clothing should be worn. Remove all unprotected personnel.
- NFPA**
- | | |
|----------------------|---|
| Health: | 1 |
| Flammability: | 4 |
| Instability: | 1 |

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Section 6: Accidental Release Measures

- Personal Precautions:** Wear adequate personal protective equipment as indicated in Section 8.
- Environmental Precautions:** Prevent the release of material into sewers or ground water.
- Methods for Containment:** Stop the spill immediately. Contain any spilled liquid with an inert absorbent.
- Methods for Clean-up:** Do not use water or aqueous cleaning agents to flush spills. Soak up spilled liquid with an inert absorbent. Collect contaminated absorbent in a suitable covered container for appropriate disposal (see Section 13).

Section 7: Handling and Storage

- Handling:** Avoid contact with eyes and skin; do not breathe in spray or fumes. Wash hands thoroughly with detergent and water after handling, before eating, drinking, smoking or using the toilet. Remove contaminated clothing and wash before reuse. Keep out of reach of children. Keep away from sources of ignition. No smoking.
- Storage:** Store in a well-ventilated, cool, dry area, out of direct sunlight and away from heat, flames and ignition sources. Keep containers closed when not in use. Observe pressurized container storage regulations.

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines

Consult local authorities for acceptable exposure limits.

<u>Ingredient</u>	<u>ACGIH TLV (8-hr. TWA) (mg/m³)</u>	<u>U.S. OSHA PEL (8-hr. TWA) (mg/m³)</u>	<u>Ontario (Canada) TWAEL (mg/m³)</u>	<u>UK OEL (8-hr. TWA) (mg/m³)</u>
Propane	1000 ppm	1000 ppm (1800 mg/m ³)	1000 ppm	Asphyxiant
n-Butane	1000 ppm	Not established	800 ppm 1900 mg/m ³	600 ppm (1450 mg/m ³), *STEL 750 ppm (1810 mg/m ³)

Exposure Controls

- Engineering Controls:** Good general ventilation.
- Personal Protection:**
- Eye/Face Protection:** Wear safety goggles.
- Skin Protection:** Wear appropriate gloves to prevent skin contact.
- Respiratory Protection:** If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protection equipment including approved respiratory protection. Have appropriate equipment available for use in emergencies such as spills or fire.
- A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 529 or Canadian Standards Association (CSA) Standard Z94.4-02 must be followed whenever workplace conditions warrant a respirator's use.
- General Hygiene Measures:** Avoid breathing vapors of this product. Do not eat, drink or smoke in work areas. Wash hands after handling this product. Keep away from foodstuffs and animal feed.

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Section 9: Physical and Chemical Properties

Physical State:	Aerosol	Flash Point & method:	< -18 °C (0 °F)
Appearance, Color and Odor:	Spray can, liquid has petroleum odor.	Autoignition Temperature:	Not available
Odor Threshold:	Not available	Flammability Limits in Air:	Not available
pH:	Not applicable	Vapor Pressure:	50 psig @ 21°C (70° F)
Relative density:	0.765 @ 15.5°C (60 °F)	Vapor Density:	Not available
Partition coefficient:	Not available	Evaporation Rate:	Faster than ether
Solubility:	Insoluble in water	Boiling Point/Range:	< -18 °C (0 °F)
Viscosity:	Not applicable	Freezing Point:	Not available
Decomposition Temperature:	Not available	VOC Content:	15% (wt/wt %)

Section 10: Stability and Reactivity

Chemical Stability:	Stable at normal room temperature. Aerosol containers may rupture explosively when exposed to temperatures exceeding 48°C (120°F).
Conditions to Avoid:	Avoid heat, sparks, ignition sources and open flames.
Incompatible Materials:	Avoid contact with strong oxidizers.
Hazardous Decomposition Products:	Not applicable
Possibility of Hazardous Reactions:	Not applicable

Section 11: Toxicological Information

<u>Acute Toxicity Data</u>	Acute toxicity data for the mixture is not available. Acute oral toxicity of the component substances is low.
<u>Other Toxicity Data</u>	
Carcinogenicity:	Normal use of this product will not result in exposure to any component that is considered a human carcinogen by IARC (International Agency for Research on Cancer), ACGIH (American Conference of Governmental Industrial Hygienists, OSHA or NTP (National Toxicology Program).
Irritation:	Spray is irritating to eyes. Overexposure to fumes may cause irritation to the eyes and respiratory system.
Corrosivity:	Not applicable
Sensitization:	Not applicable
Neurological Effects:	Not applicable with normal use of the product.
Genetic Effects:	Not applicable with normal use of the product.
Reproductive Effects:	Not applicable with normal use of the product.
Developmental Effects:	Not applicable with normal use of the product.
Target Organ Effects:	Not applicable with normal use of the product.

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

Ecotoxicity:	Not available
Persistence/Degradability:	Not available
Bioaccumulation/Accumulation:	Not available
Mobility:	Not available

Section 13: Disposal Considerations

Waste Disposal Method:	Do NOT puncture, compact or incinerate. Refer to disposal requirements for extremely flammable pressurized containers. 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. The conditions of use, storage and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, LA-CO Industries, Inc. does not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.
USA:	Dispose of in accordance with local, state and federal laws and regulations.
Canada:	Dispose of in accordance with local, provincial and federal laws and regulations.
EC:	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.S. Hazardous Materials Regulation (DOT 49CFR):	As packaged this material can be shipped, if spray can is equal to or less than 1 L, as a "Consumer Commodity ORM-D" Exemption. Shipment from US going to Canada may transport as per 49 CFR (TDG Section 9.1)
Canadian Transportation of Dangerous Goods (TDG):	As packaged this material can be shipped, if spray can is equal to or less than 1 L, as a "Consumer Commodity" as per part 1.17 of the TDG Regulations. Shipment from Canada to the US may transport as per TDG Regulations (49 CFR Part 171.12a)
ADR/RID:	UN1950, AEROSOLS, FLAMMABLE, 2.1; 2 5F Gases
IMDG:	UN1950, AEROSOLS, 2.1, LTD QTY (each not exceeding 1000 cm ³), EmS F-D, S-U
Marine Pollutants:	No component of this mixture is listed as a Marine Pollutant.
ICAO/IATA:	Consumer Commodity, 9, ID8000 May be carried under the provisions for dangerous goods in limited quantities.

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Section 15: Regulatory Information

USA

TSCA Status: All component substances are listed on the TSCA inventory.

SARA Title III
 Sec. 302/304: None
 Sec. 311/312: Flammable
 Sec. 313: None
 CERCLA RQ: None

California Prop 65: Not applicable

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: A – Compressed Gas
 (for workplace exposures) B5 – Flammable Aerosol

New Substance Notification Regulations: All component substances are listed on Canada’s Domestic Substances List (DSL).

NPRI Substances: White mineral oil is an NPRI reportable substance.

EC Classification for the Substance/Preparation

European Inventories: All component substances are listed in EINECS.

Symbol: 

R12: Extremely Flammable.

S2: Keep out of reach of children.
 S9: Keep container in a well ventilated place.
 S16: Keep away from sources of ignition – No smoking.

Germany - Water Classification (VwVwS) - Annex 3 Sulfonic acids, petroleum, calcium salts listed as ID Number 7663, hazard class 2: Hazard to waters.

Section 16: Other Information

Full Text of R-phrases appearing in Section 2: R12: Extremely flammable

Preparation Information:

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