

**Section 1: IDENTIFICATION**

**Product Name:** PLID Thin Film Aerosol

**Synonyms:** Not available.

**Product Use:** Corrosion inhibitor / penetrant / lubricant for marine environments – for non-ferrous or ferrous as well as dissimilar metals / wherever there is excessive moisture.

**Restrictions on Use:** Not available.

**Manufacturer/Supplier:** Ship-2-Shore  
109-7337 North Fraser Way  
Burnaby, BC V5J 0G7  
Canada

**Phone Number:** 800-430-1533

**Emergency Phone:** For Hazardous Materials [or Dangerous Goods] Incident  
Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC  
1-800-424-9300 / +1 703-527-3887 CCN 991123

**Date of Preparation of SDS:** August 19, 2021

**Section 2: HAZARD(S) IDENTIFICATION**

**GHS INFORMATION**

**Classification:** Flammable Aerosols, Category 2  
Skin Irritation, Category 2  
Germ Cell Mutagenicity, Category 1B  
Carcinogenicity, Category 1B  
Aspiration Hazard, Category 1

**LABEL ELEMENTS**

**Hazard**

**Pictogram(s):**



**Signal Word:** Danger

**Hazard Statements:** Flammable aerosol.  
Causes skin irritation.  
May cause genetic defects.  
May cause cancer.  
May be fatal if swallowed and enters airways.

**Precautionary Statements**

**Prevention:** Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not spray on an open flame or other ignition source.



SAFETY DATA SHEET

PLID Thin Film Aerosol

Date of Preparation: August 19, 2021

Do not pierce or burn, even after use.
Wash hands thoroughly after handling.
Wear protective gloves, protective clothing and eye protection.

Response: IF SWALLOWED: Immediately call a POISON CENTER or doctor.
IF ON SKIN: Wash with plenty of water.
IF exposed or concerned: Get medical attention.
Do NOT induce vomiting.
If skin irritation occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.

Storage: Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

Disposal: Dispose of contents and container in accordance with applicable regional, national and local laws and regulations.

Hazards Not Otherwise Classified: Not applicable.

Ingredients with Unknown Toxicity: 82% of this product mixture consists of ingredient(s) of unknown acute toxicity.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

This material is considered hazardous by the Hazardous Products Regulations.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Table with 4 columns: Hazardous Ingredient(s), Common name / Synonyms, CAS No., % wt./wt. Rows include Propane, Propane, 2-methyl-, Kerosine (petroleum), and Stoddard solvent.

Section 4: FIRST-AID MEASURES

Inhalation: If inhaled: Call a poison center or doctor if you feel unwell.
Acute and delayed symptoms and effects: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Eye Contact: If in eyes: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center or doctor if you feel unwell.
Acute and delayed symptoms and effects: May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.



**SAFETY DATA SHEET**

**PLID Thin Film Aerosol**

Date of Preparation: August 19, 2021

- Skin Contact:** If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.
- Acute and delayed symptoms and effects:** Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching.
- Ingestion:** If swallowed: Do NOT induce vomiting. Immediately call a poison center or doctor. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.
- Acute and delayed symptoms and effects:** May be fatal if swallowed and enters airways. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
- General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
- Note to Physicians:** Symptoms may not appear immediately.

**Section 5: FIRE-FIGHTING MEASURES**

**FLAMMABILITY AND EXPLOSION INFORMATION**

Flammable aerosol. Containers may explode when heated. Ruptured cylinders may rocket.

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

Fire involving Tanks: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Do not direct water at source of leak or safety devices; icing may occur. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. Some of these materials, if spilled, may evaporate leaving a flammable residue.

- Sensitivity to Mechanical Impact:** This material is not sensitive to mechanical impact.
- Sensitivity to Static Discharge:** This material is sensitive to static discharge.

**MEANS OF EXTINCTION**

- Suitable Extinguishing Media:** Small Fire: Dry chemical or CO2. Use extinguishing agent suitable for type of surrounding fire.
- Large Fire: Water spray, fog or regular foam. Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.

**Unsuitable Extinguishing Media:** Do not use straight streams.

**Products of Combustion:** Oxides of carbon.

**Protection of Firefighters:** Vapors may cause dizziness or asphyxiation without warning. Fire may produce irritating, corrosive and/or toxic gases. Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing will only provide limited protection.

### Section 6: ACCIDENTAL RELEASE MEASURES

- Emergency Procedures:** As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of low areas. Ventilate closed spaces before entering. Do not touch or walk through spilled material.
- Personal Precautions:** Use personal protection recommended in Section 8.
- Environmental Precautions:** Prevent entry into waterways, sewers, basements or confined areas.
- Methods for Containment:** Stop leak if you can do it without risk. Do not direct water at spill or source of leak. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. If possible, turn leaking containers so that gas escapes rather than liquid.
- Methods for Clean-Up:** Allow substance to evaporate. Ventilate the area.
- Other Information:** See Section 13 for disposal considerations.

### Section 7: HANDLING AND STORAGE

- Handling:**  
Do not swallow. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash hands thoroughly after handling. See Section 8 for information on Personal Protective Equipment.
- Storage:**  
Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

### Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Guidelines Component

Propane [CAS No. 74-98-6]

**ACGIH:** Simple asphyxiant; Explosion hazard

**OSHA:** 1000 ppm (TWA), 1800 mg/m<sup>3</sup> (TWA);

Isobutane [CAS No. 75-28-5]

**ACGIH:** 1000 ppm (STEL); Explosion hazard (2012)

**OSHA:** No PEL established.

Kerosene [CAS No. 8008-20-6]

**ACGIH:** 200 mg/m<sup>3</sup> (TWA); Skin; A3; Application restricted to conditions in which there are negligible aerosol exposures (2003)

**OSHA:** No PEL established.

Stoddard solvent [CAS No. 8052-41-3]

**ACGIH:** 100 ppm (TWA); (1980);

**OSHA:** 500 ppm (TWA), 2900 mg/m<sup>3</sup> (TWA);  
100 ppm (TWA) [Vacated];

**PEL:** Permissible Exposure Limit

**TWA:** Time-Weighted Average

**STEL:** Short-Term Exposure Limit

**C:** Ceiling

**Engineering Controls:**

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, gas, etc.) below recommended exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**



**Eye/Face Protection:**

Wear safety glasses with side shields. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

**Hand Protection:**

Wear protective gloves. For occasional contact wear standard disposable nitrile or Viton gloves. For extended exposure wear Neoprene gloves.

**Skin and Body Protection:**

Wear protective clothing.

**Respiratory Protection:**

Not normally required. If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator that meets the requirements of CSA Standard CAN/CSA-Z94.4, or self-contained breathing apparatus must be used.

**General Hygiene Considerations:**

Handle according to established industrial hygiene and safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:**

Pressurized gas/liquid mixture.

**Colour:**

Orange.

**Odour:**

Fresh Scent/Petroleum-like.



SAFETY DATA SHEET

**PLID Thin Film Aerosol**

Date of Preparation: August 19, 2021

<b>Odour Threshold:</b>	Not available.
<b>Physical State:</b>	Liquid.
<b>pH:</b>	Not available.
<b>Melting Point / Freezing Point:</b>	Not available.
<b>Initial Boiling Point:</b>	150 °C (302 °F) (estimated)
<b>Boiling Range:</b>	150 °C to 550°C (estimated)
<b>Flash Point:</b>	< 23 °C (73.4 °F) (estimated)
<b>Evaporation Rate:</b>	Not available.
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Lower Flammability Limit:</b>	1.8 % (Isobutane)
<b>Upper Flammability Limit:</b>	9.5 % (Propane)
<b>Vapor Pressure:</b>	Not available.
<b>Vapor Density:</b>	Not available.
<b>Relative Density:</b>	Not available.
<b>Solubilities:</b>	Slightly miscible in water.
<b>Partition Coefficient: n-Octanol/Water:</b>	Not available.
<b>Auto-ignition Temperature:</b>	460 °C (860 °F) (estimated)
<b>Decomposition Temperature:</b>	Not available.
<b>Viscosity:</b>	Not available
<b>Percent Volatile, wt. %:</b>	Not available.
<b>VOC content, wt. %:</b>	Not available.
<b>Density:</b>	0.177 kg/L (estimated).
<b>Coefficient of Water/Oil Distribution:</b>	Not available.
<b>Heat of combustion (NFPA 30B):</b>	40 kJ/g (estimated)

**Section 10: STABILITY AND REACTIVITY**

<b>Reactivity:</b>	Contact with incompatible materials. Sources of ignition. Exposure to heat.
<b>Chemical Stability:</b>	Stable under normal storage conditions.
<b>Possibility of Hazardous Reactions:</b>	None known.
<b>Conditions to Avoid:</b>	Contact with incompatible materials. Sources of ignition. Exposure to heat.
<b>Incompatible Materials:</b>	Strong oxidizers.



SAFETY DATA SHEET

PLID Thin Film Aerosol

Date of Preparation: August 19, 2021

Hazardous Decomposition Products: Not available.

### Section 11: TOXICOLOGICAL INFORMATION

#### EFFECTS OF ACUTE EXPOSURE

##### Product Toxicity

Oral: Not available.

Dermal: Not available.

Inhalation: Not available.

##### Component Toxicity

Component	CAS No.	LD <sub>50</sub> oral	LD <sub>50</sub> dermal	LC <sub>50</sub>
Propane	74-98-6	Not available.	Not available.	Not available.
Isobutane	75-28-5	Not available.	Not available.	570000 ppm (rat); 15M
Kerosene	8008-20-6	> 2835 mg/kg (rabbit)	> 2000 mg/kg (rabbit)	> 5000 mg/m <sup>3</sup> (rat); 4H
Stoddard solvent	8052-41-3	Not available.	Not available.	Not available.

**Likely Routes of Exposure:** Eye contact. Skin contact. Inhalation. Ingestion.

**Target Organs:** Skin. Eyes. Gastrointestinal tract. Respiratory system.  
Cardiovascular system. Kidneys. Central nervous system.

##### Symptoms (including delayed and immediate effects)

**Inhalation:** May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Excessive inhalation may cause headache, dizziness, confusion, loss of appetite and/or loss of consciousness.

**Eye:** May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Skin:** Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching.

**Ingestion:** May be fatal if swallowed and enters airways. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**Skin Sensitization:** Not available.

**Respiratory Sensitization:** Not available.

**Medical Conditions** Not available.

**Aggravated By Exposure:**

#### EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)

**Target Organs:** Skin. Eyes. Gastrointestinal tract. Respiratory system. Cardiovascular system. Kidneys. Central nervous system.

**Chronic Effects:** Prolonged or repeated contact may dry skin and cause irritation.





SAFETY DATA SHEET

PLID Thin Film Aerosol

Date of Preparation: August 19, 2021

**Carcinogenicity:** May cause cancer. Straight run Kerosene has shown the potential to cause skin cancer in laboratory animals when applied over the life time of the animal.

**Component Carcinogenicity**

Component	ACGIH	IARC	NTP	OSHA	Prop 65
Kerosene	A3	Not listed.	Not listed.	Not listed.	Not listed.

**Mutagenicity:** May cause genetic defects.

**Reproductive Effects:** Not available.

**Developmental Effects**

**Teratogenicity:** Not available.

**Embryotoxicity:** Not available.

**Toxicologically Synergistic Materials:** Not available.

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not available.

**Persistence / Degradability:** Not available.

**Bioaccumulation / Accumulation:** Not available.

**Mobility in Environment:** Not available.

**Other Adverse Effects:** Not available.

**Section 13: DISPOSAL CONSIDERATIONS**

**Disposal Instructions:** Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

**Section 14: TRANSPORT INFORMATION**

**U.S. Department of Transportation (DOT)**

**Proper Shipping Name:** UN1950, AEROSOLS, 2.1

**Class:** 2.1

**UN Number:** UN1950

**Packing Group:** Not applicable.

**Label Code:**







**SAFETY DATA SHEET**

**PLID Thin Film Aerosol**

Date of Preparation: August 19, 2021

**Canada Transportation of Dangerous Goods (TDG)**

**Proper Shipping Name:** UN1950, AEROSOLS, 2.1

**Class:** 2.1

**UN Number:** UN1950

**Packing Group:** Not applicable.

**Label Code:**



**IMDG**

**Proper Shipping Name:** UN1950, AEROSOLS, 2.1

**Class:** 2.1

**UN Number:** UN1950

**Packing Group:** Not applicable.

**Label Code:**



**Section 15: REGULATORY INFORMATION**

**Chemical Inventories**

**US (TSCA)**

The components of this product are in compliance with the chemical notification requirements of TSCA.

**Canada (DSL)**

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

**Federal Regulations**

**United States**

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**SARA Title III**

Component	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313	RCRA CODE	CAA 112(r) TQ (lbs.)
Propane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Isobutane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000



**SAFETY DATA SHEET**

**PLID Thin Film Aerosol**

Date of Preparation: August 19, 2021

**State Regulations**

**Massachusetts**

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

<b>Component</b>	<b>CAS No.</b>	<b>RTK List</b>
Propane	74-98-6	Listed.
Isobutane	75-28-5	Listed.
Kerosene	8008-20-6	Listed.
Stoddard solvent	8052-41-3	Listed.

**New Jersey**

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

<b>Component</b>	<b>CAS No.</b>	<b>RTK List</b>
Propane	74-98-6	SHHS
Isobutane	75-28-5	SHHS
Kerosene	8008-20-6	Listed.
Stoddard solvent	8052-41-3	Listed.

**Note:** SHHS = Special Health Hazard Substance

**Pennsylvania**

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

<b>Component</b>	<b>CAS No.</b>	<b>RTK List</b>
Propane	74-98-6	Listed.
Isobutane	75-28-5	Listed.
Kerosene	8008-20-6	Listed.
Stoddard solvent	8052-41-3	Listed.

**Section 16: OTHER INFORMATION**

**Disclaimer:**

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.

**Date of Preparation of SDS:** August 19, 2021

**Version:** 1.2

**GHS SDS Prepared by:** Deerfoot Consulting Inc.

**Phone:** (403) 720-3700