



SHIP 2 SHORE
CORROSION PREVENTIVE COATINGS

SAFETY DATA SHEET

Emergency Telephone: 1-866-836-8855

WWW.SHIP-2-SHORE.COM

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: PLID Thin Film

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

Supplier: Not available.

Manufacturers Name: Ship-2-Shore
109-7337 North Fraser Way
Burnaby, BC V5J 0G7
Canada

Telephone: 800-430-1533

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SECTION 2 — HAZARD IDENTIFICATION

WHMIS Classification Poisonous and Infectious Material: Class D2B

OSHA Hazards Carcinogenicity: Category 1B

GHS Label elements, including precautionary statement

Signal Word None.

Hazard statement(s) H229: Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s) P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
P280: Use personal protective equipment as required.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.

Label element



HMIS Classification

Health hazard	1
Flammability	1
Physical hazard	0

Potential health effects

Inhalation Can cause irritation to nose, throat and upper respiratory tract during prolonged exposure. Exercise caution if vapors are hot. If over exposure occurs - may cause dizziness, headaches or nausea. *Based on toxicity of components.

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Skin	Prolonged or repeated contact with skin has been a cause of defatting or dermatitis in normal day to day handling of material.
Eyes	Essentially non-irritating, however, vapors and/or mists can cause mild to moderate irritation.
Ingestion	Maybe harmful or fatal if swallowed. Can cause severe irritation of the mouth, throat and esophagus. Can cause nausea, vomiting or gastrointestinal upset. May cause diarrhea. Based on toxicity of petroleum distillate only.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Material	CAS-No.	Concentration (%wt)
Refined petroleum streams	72623-85-9 72623-83-7	70-80
Kerosene	8008-20-6	3-7
Mineral Spirits	8052-41-3	10-30

Proprietary Additive Mixture



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SECTION 4 — FIRST AID MEASURES

General advice

If negative symptoms developed while handling the product move out of the area to prevent further exposure. Consult a physician as a precautionary measure. If symptoms developed after being exposed to the material without proper protection. Show this safety data sheet to the doctor in attendance.

If inhaled

In emergency situations, use proper respiratory protection and immediately remove the affected person from exposure. Keep at rest. Administer artificial respiration if breathing has stopped. Seek medical attention.

In case of skin contact

Wash exposed skin thoroughly with soap and water. Cold water washing is suggested if irritation is caused by exposure. If irritation develops and is prolonged and/or sore, consult a physician.

In case of eye contact

Flush eyes with plenty of water for at least 15 minutes. Avoid rubbing the eye. If experiencing prolonged irritation or soreness, seek medical attention.

If swallowed

Do not induce vomiting. Rinse mouth well with water. Never give anything by mouth to an unconscious person. Seek medical attention.

General information

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5 — FIRE FIGHTING MEASURES

Conditions of flammability

Non-flammable under standard use conditions.

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Special protective equipment for fire-fighters

Cool closed containers exposed to fire with water spray.

Hazardous combustion products

Oxides of carbon, dense smoke and possibly toxic fumes.

Explosion data – sensitivity to mechanical

Not available.

Explosion data – sensitivity to static discharge

Not available.



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SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

Method and materials for containment and cleaning up

Land spill: Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Stop leak if without risk. Move containers from spill area. Shovel into suitable properly marked container for disposal or reclamation in accordance with local regulations.

SECTION 7— HANDLING AND STORAGE

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where the material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Avoid contact with skin, eyes and clothing. Keep container away from heat, sparks, and open flame. Keep container closed when not in use.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry area away from heat, sparks and open flames. Containers should be tightly closed while not in use. Store away from acids and oxidizing materials.



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SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Component	CAS-No.	Type	Value	Basis
Refined petroleum streams	72623-85-9 72623-83-7	TWA STEL	5mg/m ³ 10 mg/m ³	US. ACGIH Threshold Limit Values
Kerosene	8008-20-6	TWA	200 mg/m ³	US. ACGIH Threshold Limit Values Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)
Mineral spirits	8052-41-3	TWA	100 ppm	US. ACGIH Threshold Limit Values
		TWA	572 ppm	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)
		STEL	580 mg/m ³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)
		TWA	290 mg/m ³	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)
		TWA	100 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)
		TWA	100 ppm	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)
		TWA	525 mg/m ³	

Biological limit values: No biological exposure limits noted for the ingredient(s).

Exposure guidelines:

Canada - Alberta OELs: Skin designation

Kerosene (CAS 8008-20-6): Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Kerosene (CAS 8008-20-6): Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Kerosene (CAS 8008-20-6): Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

Kerosene (CAS 8008-20-6): Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Kerosene (CAS 8008-20-6): Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Kerosene (CAS 8008-20-6): Can be absorbed through the skin.



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Personal Protection Equipment

Respiratory protection

In case of insufficient ventilation, use suitable respiratory equipment.

Skin/hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Long sleeved clothing and full length pants should be worn if repeated or prolonged direct contact is likely to occur.

Eye protection

If contact is likely, safety glasses with side shields or goggles should be worn. When using eye protection, equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Hygiene measures

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Specific engineering control

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state

Clear liquid

Color

Dark orange

Safety data

Odour

Fresh Scent/Petroleum-like.

Odour threshold

Not available.

pH

Not available.

Melting point/Freezing point

Not available.

Initial boiling point/boiling range

>250°C

Flash Point (ASTM D93)

84°C

Evaporation rate

< 1

Flammability (solid; gas)

Not available.

Lower flammable/explosive limit

Not available.

Upper flammable/explosive limit

Not available.

Vapour pressure (ambient temp)

8 mm Hg

Vapour density

> 1

Relative density (ASTM D1217-15)

0.87 kg/L

Solubility (water)

Insoluble.



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Partition coefficient - n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
VOC Content	0.1%
Dielectric strength	41 kv
Sulfurous acid spray	>90 hr

SECTION 10 — STABILITY AND REACTIVITY

Chemical stability

The product is stable and non-reactive under normal conditions of use, storage, and transport.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Materials to avoid

Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

Conditions to avoid

Heat and open flames. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Hazardous decomposition products

No hazardous decomposition products are known.

Reactivity

Material is stable under normal conditions.

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SECTION 11 — TOXICOLOGICAL INFORMATION**Symptoms related to the physical, chemical and toxicological characteristics**

Direct contact with eyes may cause temporary irritation.

Component	Species	Test results
Refined petroleum streams (CAS#: 72623-85-9, 72623-83-7) Acute Dermal LD50	Rabbit	>2000 mg/kg
Oral LD50	Rat	>5000 mg/kg
Inhalation LC50	Rat	>2500 mg/m ³ , 4hr
Kerosene (CAS#: 8008-20-6) Acute Dermal LD50	Rabbit	>2000 mg/kg >2000 mg/kg, 24 hr
Inhalation LC50	Cat Rat	>6.4 mg/l, 6 hr >7.5 mg/l, 6 hr >4.3 mg/l, 4 hr >0.1 mg/l, 8 hr
Oral LD50	Rat	>5000mg/kg
Mineral Spirits (CAS#: 8052-41-3) Acute Dermal LD50	Rabbit	>2000 mg/kg
Oral LD50	Rat	>7500 mg/kg

* Toxicity data is presented for the individual components, in their pure form, and not as a mixture in their reported concentrations as in the product

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.



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Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization

This product is not expected to cause skin sensitization.

Germ cell mutagenicity

May cause genetic defects. No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

May cause cancer.

ACGIH Carcinogens

Kerosene (CAS 8008-20-6): A3 Confirmed animal carcinogen with unknown relevance to humans.

Canada - Manitoba OELs: carcinogenicity

Kerosene (non-aerosol), as total hydrocarbon vapor (CAS 8008-20-6): Confirmed animal carcinogen with unknown relevance to humans.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

Not likely, due to the form of the product.

Chronic effects

Causes damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects.

Potential health effect

Not available.

Signs and symptoms of exposure

Not available.

Synergistic effect

Not available.

Additional information

Symptoms may be delayed.

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SECTION 12 — ECOLOGICAL INFORMATION**Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Ecotoxicity data

Kerosene (CAS#: 8008-20-6)

Fish	LC50	Pimephales Promelas Lepomis Macrochirus	45 mg/l, 96 hr 1740 mg/l, 96 hr
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Mineral Spirits (CAS#: 8052-41-3)

Algae	IC50	Pseudokrichneriella Subcapitata	3000 mg/l, 72 hr
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Refined petroleum streams (CAS#: 72623-85-9, 72623-83-7)

Not available.

Precedence and degradability

No data is available on the degradability of this product.

Bioaccumulation potential

No data available.

Partition coefficient n-octanol / water (log Kow)

Mineral Spirits (CAS#: 8052-41-3)	3.16 - 7.15
Kerosene (CAS#: 8008-20-6)	3.3 - >6.0
Refined petroleum streams (CAS#: 72623-85-9, 72623-83-7)	Not available.

Mobility in soil

Not available.

PBT and vPvB

Not available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.



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SECTION 13 — DISPOSAL CONSIDERATIONS

Local disposal regulations

Dispose in accordance with all applicable regulations.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14 — TRANSPORT INFORMATION

Special shipping information

TDG: Not Regulated as dangerous good

DOT: Not Regulated as dangerous good

IATA-DGR: Not Regulated as dangerous good

IMDG-CODE: Not Regulated as dangerous good

SECTION 15 — REGULATORY INFORMATION

Canadian regulations:

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

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International Inventories:

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16 — OTHER INFORMATION

Prepared July 18th, 2019. The information, recommendations, and suggestions in the safety data sheet, have been compiled from tests and data believed to be reliable. The above information is believed to be correct, but is not under guarantee or warranty to be all inclusive and shall be used only as a guide. The information contained herein is based on the present state of our knowledge and is only applicable to the product or material set forth in Section 1. The information provided may not be applicable or complete if such product material is used in combination with any other product or material, or in any process. The information provided on the product or material is with regard to appropriate safety precautions and does not represent any guarantee of the properties of the product. It is the user's obligation to determine the safety, toxicity and suitability for their own use of the product described herein and to comply with all applicable laws and regulations. Ship-2-Shore and its affiliates not be held liable for any damage resulting from handling or from contact with the above product.