



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name	LPS® PROCYON Corrosion Inhibitor
Version #	01
Issue date	07-18-2012
CAS #	Mixture
Part Number	04228, 04205, 04255
Product use	A specialized coating designed to prevent rust and corrosion on steel, aluminum and other metals.
Manufacturer information	LPS Laboratories, a division of Illinois Tool Works 4647 Hugh Howell Rd Tucker, GA 30084 United States www.lpslabs.com 1-800-241-8334 / 770-243-8800 Chemtrec 1-800-424-9300

2. Hazards Identification

Emergency overview	WARNING FLAMMABLE LIQUID AND VAPOR. Harmful in contact with eyes. May cause skin irritation. Contact with eyes may cause irritation. Prolonged exposure may cause chronic effects.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.
Eyes	Avoid contact with eyes. Contact with eyes may cause irritation.
Skin	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Avoid contact with the skin.
Inhalation	Prolonged inhalation may be harmful. Avoid breathing dust/fume/gas/mist/vapors/spray.
Ingestion	Components of the product may be absorbed into the body by ingestion. Do not ingest.
Target organs	Central nervous system. Eyes. Kidneys. Respiratory system. Skin.
Chronic effects	Conjunctiva. Edema. Kidney injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Signs and symptoms	Narcosis. Decrease in motor functions. Behavioral changes. Edema. Conjunctivitis. Proteinuria. Defatting of the skin. Skin irritation. Rash.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Mineral Spirits Regular Stoddard Solvent	8052-41-3	40 - 60
Petrolatum	8009-03-8	2.5 - 10
Dipropylene Glycol Monomethyl Ether	34590-94-8	1 - 2.5
Other components below reportable levels		40 - 60

4. First Aid Measures

First aid procedures	
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
Skin contact	Wash off with soap and plenty of water. Get medical attention if irritation develops and persists. Wash clothing separately before reuse.

Inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Call a physician if symptoms develop or persist.
Ingestion	Rinse mouth thoroughly. If ingestion of a large amount does occur, call a poison control center immediately.
Notes to physician	Symptoms may be delayed.
General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Flammable properties	Flammable by OSHA criteria. Heat may cause the containers to explode. Runoff to sewer may cause fire or explosion hazard.
Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Carbon dioxide (CO ₂). Powder.
Unsuitable extinguishing media	Water. Do not use water jet as an extinguisher, as this will spread the fire.
Protection of firefighters	
Protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. 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. ALWAYS stay away from tanks engulfed in flame. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Move containers from fire area if you can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	In the event of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep out of low areas. Ventilate closed spaces before entering them.
Methods for containment	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.
Methods for cleaning up	Extinguish all flames in the vicinity. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

7. Handling and Storage

Handling	DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. All equipment used when handling the product must be grounded. Do not get this material in contact with eyes. Avoid contact with skin. Use only in area provided with appropriate exhaust ventilation. Avoid prolonged exposure.
Storage	The pressure in sealed containers can increase under the influence of heat. Keep away from heat and sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feedings. Keep out of the reach of children. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Dipropylene Glycol Monomethyl Ether (34590-94-8)	STEL	150 ppm	
	TWA	100 ppm	
Mineral Spirits Regular Stoddard Solvent (8052-41-3)	TWA	100 ppm	
Petrolatum (8009-03-8)	TWA	5 mg/m3	Inhalable fraction.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Dipropylene Glycol Monomethyl Ether (34590-94-8)	PEL	600 mg/m3	
		100 ppm	
Mineral Spirits Regular Stoddard Solvent (8052-41-3)	PEL	2900 mg/m3	
		500 ppm	
Petrolatum (8009-03-8)	PEL	5 mg/m3	Mist.

Exposure guidelines

US ACGIH Threshold Limit Values: Skin designation

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) Can be absorbed through the skin.

US OSHA Table Z-1: Skin designation

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) Can be absorbed through the skin.

Engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye / face protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.
Skin protection	Wear appropriate chemical resistant clothing. Avoid contact with the skin. Chemical resistant gloves.
Respiratory protection	Use personal protective equipment as required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygiene considerations	Do not get in eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Viscous. Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Dark brown
Odor	Cherry
Odor threshold	Not available.
pH	Not available.
Vapor pressure	2.6 mm Hg
Vapor density	4.8
Boiling point	320 °F (160 °C)
Solubility (water)	Not available.
Specific gravity	0.88-0.90 at 20 °C
Relative density	Not available.
Flash point	107.60 °F (42.00 °C)

Flammability limits in air, upper, % by volume	6 %
Flammability limits in air, lower, % by volume	0.6 %
Auto-ignition temperature	> 446 °F (> 230 °C)
VOC	52.2 % per U.S. State and Federal Consumer Product Regulations
Evaporation rate	0.2 BuAc
Viscosity	75-225 cPs
Percent volatile	52.2 %

Other data

Flammability class	Combustible II estimated
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10. Chemical Stability & Reactivity Information

Chemical stability	Risk of ignition.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Toxic gas. Carbon oxides.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Local effects	Components of the product may be absorbed into the body through the skin. May be irritating to eyes.
Chronic effects	Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.
Subchronic effects	Kidney injury may occur.
Carcinogenicity	
ACGIH Carcinogens	
Petrolatum (CAS 8009-03-8)	A4 Not classifiable as a human carcinogen.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3)	3 Not classifiable as to carcinogenicity to humans.
Neurological effects	Hazardous by OSHA criteria.
Further information	Symptoms may be delayed.

12. Ecological Information

Persistence and degradability	Not available.
Bioaccumulation / Accumulation	
Bioaccumulative potential	
Octanol/water partition coefficient log Kow	
Mineral Spirits Regular Stoddard Solvent	3.16 - 7.15
Partition coefficient	
Mineral Spirits Regular Stoddard Solvent	3.16 - 7.15

13. Disposal Considerations

Waste codes	D001: Waste Flammable material with a flash point <140 F
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

General DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

DOT

Basic shipping requirements:

UN number	UN1139
Proper shipping name	Coating solution, MARINE POLLUTANT
Hazard class	3
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Special precautions	Read safety instructions, MSDS and emergency procedures before handling.
Additional information:	
Special provisions	B1, IB3, T2, TP1
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242

IATA

UN number	UN1139
UN proper shipping name	Coating solution
Transport hazard class(es)	3
Packing group	III
Environmental hazards	Yes
Labels required	3

IMDG

UN number	UN1139
UN proper shipping name	Coating solution, MARINE POLLUTANT
Transport hazard class(es)	3
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Labels required	3

DOT



IATA; IMDG





15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2))

Not regulated.

DEA Essential Chemical Code Number

Not regulated.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical

No

State regulations

US - New Jersey RTK - Substances: Listed substance

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) Listed.
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3) Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Dipropylene Glycol Monomethyl Ether (CAS 34590-94-8) Listed.
Mineral Spirits Regular Stoddard Solvent (CAS 8052-41-3) Listed.
Petrolatum (CAS 8009-03-8) Listed.

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 1*
Flammability: 2
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 2
Instability: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

**This data sheet contains
changes from the previous
version in section(s):**

Product and Company Identification: Product and Company Identification
Hazards Identification: US Hazard Categories
Composition / Information on Ingredients: Ingredients
Physical & Chemical Properties: Multiple Properties
Transport Information: Proper Shipping Name/Packing Group
Regulatory Information: United States