



MATERIAL SAFETY DATA SHEET

LPS[®] PROCYON Corrosion Inhibitor

Revision 6

Revision Date: 2/3/09

Supersedes: 11/25/08

Section 1 – Identification

Product Name:	LPS [®] PROCYON Corrosion Inhibitor
Part Number:	04228, 04205, 04255, C04228, C04205, C04255
Chemical Name:	Petroleum Hydrocarbons
Product Use:	A specialized coating designed to prevent rust and corrosion on steel, aluminum and other metals.
Manufacturer Information:	LPS Laboratories, 4647 Hugh Howell Rd., Tucker, GA, USA 30084
TEL:	1 770-243-8800
Emergency Telephone Number:	1-800-424-9300 Chemtrec; Outside U.S.: (703) 527-3887
FAX:	1 770-243-8899
Website:	http://www.lpslabs.com

PLAIN LANGUAGE HAZARD SUMMARY

Material Safety Data Sheets can be confusing. Federal and State laws require us to include a great deal of technical information that probably won't help the non-professional. LPS includes this "PLAIN LANGUAGE HAZARD SUMMARY" to address the questions and concerns of the average worker. If you have additional health, safety or product questions, don't hesitate to call us at 800/241-8334.

Worker Toxicity

LPS[®] PROCYON CORROSION INHIBITOR is an industrial chemical - a specialized coating designed to prevent rust and corrosion on steel, aluminum and other metals. It contains "mineral spirits" and mineral oil which can be irritating to skin at a minimum and if handled improperly can be dangerous. We suggest you wear gloves and avoid extended exposure to unprotected skin. Don't get it in your eyes (it stings), or breath large amounts of the vapor, (it will dry out your nasal passages and if you breathe large amounts in poorly ventilated areas it can make you dizzy and even sick). Don't spray LPS[®] PROCYON CORROSION INHIBITOR for extended periods without adequate ventilation. If you're going to perform work involving a lot of product in a poorly ventilated area, use of a respirator or self-contained breathing equipment may be required. For more exposure and first aid information, refer to MSDS Sections 2, 8 and 11.

Flammability

LPS[®] PROCYON CORROSION INHIBITOR is combustible, having a flashpoint between 42°-45°C (107.6°-113°F). Don't spray the product near ignition sources.

Disposal

If you spill LPS[®] PROCYON CORROSION INHIBITOR, notify the proper environmental or safety department at your company right away. If LPS[®] PROCYON CORROSION INHIBITOR becomes contaminated with another substance and is rendered unusable for protecting metal items from rust, the resulting mixture may fall under a hazardous classification. See section 13 for more details.



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Section 2 – Hazards identification

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

Emergency Overview: DANGER: Combustible. Harmful or Fatal if Swallowed.

Primary route(s) of entry: Skin and Eye contact. Inhalation.

Potential Acute Health Effects:

Eyes: Irritating to eyes

Skin: Repeated exposure may cause skin dryness or cracking. The solvent portion of this product can also be absorbed through the skin and produce CNS depression effects.

Inhalation: Excessive inhalation of vapors can cause irritation of the respiratory tract, nausea, dizziness or headache. In extreme cases (overexposure in a confined space for example), the vapors of the solvent portion can cause disorientation, difficulty with breathing, unconsciousness, and other effects depending upon the level of overexposure and duration.

Ingestion: This product has a low order of acute oral toxicity, but ingestion of large quantities will cause central nervous system depression and gastrointestinal irritation. Symptoms include a burning sensation to the mouth and esophagus, nausea, vomiting, dizziness, staggering gait, drowsiness, loss of consciousness, and other central nervous system effects. May cause injury if aspirated into lungs.

Potential Chronic Health Effects:

Carcinogenic Effects: NTP: No OSHA: No ACGIH: No

Mutagenic Effects: None

Teratogenic Effects: None

Medical conditions aggravated by exposure:

Persons with pre-existing central nervous system (CNS) disease, neurological conditions, skin disorders, chronic respiratory diseases, or impaired liver or kidney function should avoid exposure.

Signs and Symptoms:

Stinging in eyes. Repeated or prolonged skin contact can cause redness, irritation, and scaling of the skin (dermatitis). Breathing of high vapor concentrations may cause headaches, stupor, irritation of throat and eyes, and kidney effects.

Section 3 – Composition / Information on Ingredients

Component	CASRN	Weight Percent
Mineral Spirits	8052-41-3/64742-88-7	30 - 50%
Distillates Petroleum Hydrotreated Heavy	64742-54-7	5 - 10%
Dipropylene Glycol Monomethyl Ether	34590-94-8	1 - 5%

Note: The remaining ingredients of this preparation are not classified as hazardous per 29 CFR 1910.1200 Subpart Z



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Section 4 – First Aid Measures

- Eyes:** Check for and remove contact lenses. If irritation or redness develops, flush eyes with cool, clean, low-pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. Do not use eye ointment. Seek medical attention immediately.
- Skin:** Remove contaminated shoes and clothing. Clean affected area thoroughly with mild soap and water. Do not use ointments. Seek medical attention if irritation persists.
- Inhalation:** Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, seek medical attention immediately.
- Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention immediately.

Section 5 – Fire Fighting Measures

Products of Combustion: Carbon monoxide and carbon dioxide.

Firefighting media: Use CO₂, DRY chemical powder, water spray, fog or foam. Cool containing vessels with water jet in order to prevent pressure build-up, auto ignition or explosions.

Sensitivity to Impact: None. **Sensitivity to Static Discharge:** None.

Protection Clothing (Fire): Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles.

Special Remarks on Explosion Hazards: Apply water to containers to keep them cool. Heated containers will burst.

Section 6 – Accidental Release Measures

- Containment Procedures** Contain and recover spilled liquid when possible.
- Clean-Up Procedures**
- Small Spill and Leak:** Eliminate ignition sources. Absorb with an inert material and dispose of properly.
- Large Spill and Leak:** Eliminate ignition sources. Secure the area and control access. Dike far ahead of a liquid spill to ensure complete collection. Pick up free liquid for disposal using absorbent pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal.
- Evacuation Procedures** Ventilate area of leak or spill. Keep unnecessary and unprotected people away.
- Special Procedures** Remove all sources of ignition. Ventilate area. Wear appropriate protective equipment during cleanup.



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Section 7 – Handling and Storage

Handling: Eliminate ignition sources. Avoid contact with eyes, skin and clothing. Wear appropriate protective equipment during handling. Keep container closed. Do not breathe vapors or mists. Use only with adequate ventilation. Wash thoroughly after handling.

Storage: Keep container in a cool, well-ventilated area. Avoid all sources of ignition (spark or flame). Store below 120°F.

Precautions to be taken in handling and storage: Store all materials in dry, well-ventilated area. Avoid breathing vapors.

Section 8 – Exposure Controls / Personal Protection

Exposure Guidelines:

Component	CASRN	OSHA TWA-PEL	OSHA STEL	ACGIH-TLV	ACGIH-STEL	NIOSH REL
Mineral Spirits	8052-41-3 64742-88-7	500 ppm 2900 mg/m ³	Not Established	100 ppm 525 mg/m ³	Not Established	350 mg/m ³ 10-hr TWA 1800 mg/m ³ 15-min Ceiling
Distillates Petroleum Hydrotreated Heavy	64742-54-7	5 mg/m ³ (Oil Mist)*	Not Established	5 mg/m ³ (Oil Mist)*	Not Established	Not Established
Dipropylene Glycol Monomethyl Ether	34590-94-8	100 ppm	Not Established	100 ppm	150 ppm	100 ppm TWA 150 ppm STEL

* Supplier Recommendation

Engineering measures

Provide general and/or local exhaust ventilation to keep exposures below the exposure guidelines listed above.

Personal protective equipment

Eye protection

Safety glasses with side shields conforming to appropriate regulations. Eye wash fountain and emergency shower facilities are recommended.

Hand protection

Normally no hand protection is required; however, if product can get on skin during use, use chemical resistant gloves (i.e., solvent resistant laminate film type Ansell LCP[®]) conforming to appropriate regulations. Please observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves.

Respiratory protection

Typical use of this product under normal conditions does not require the use of respiratory protection. If airborne concentrations are above the applicable exposure limits (listed above), use NIOSH approved respiratory protection (i.e., organic vapor cartridge).

General Hygiene Considerations

Wash thoroughly after handling. Have eye-wash facilities immediately available.



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Section 9 – Physical and Chemical Properties

Appearance:	Viscous Liquid.	Color:	Medium to dark brown
Odor/Taste:	Cherry	Vapor Pressure:	2.6 mmHg at 20°C
Solubility Description:	Insoluble in cold water.	Evaporation Rate:	0.2 (BuAc=1)
Boiling Point:	160°C (320°F)	Flash Point:	42°-45°C (107°-113°F)
Specific Gravity (Water=1):	0.87-0.89 at 20 °C	Flash Point Method:	Tag-Closed Cup.
Vapor Density (Air=1):	4.8	Auto Ignition Temperature (°C):	>230°C (446°F)
V.O.C. Content:	46%, 3.4 #/gal, 403g/L per CARB/OTC/EPA	Partition Coefficient (octanol/water):	Not Determined
Flammable limits (estimated):	LOWER: 0.6% UPPER: 6%	Viscosity:	75 – 225 cPs
pH:	Not applicable	Odor threshold	Not Determined
Melting Point	Not Determined	Volatiles:	46%
Decomposition Temperature	Not Determined		

Section 10 – Chemical Stability and Reactivity

Chemical Stability:	Product is stable under recommended storage conditions.
Conditions to Avoid:	Keep away from heat and ignition sources.
Incompatibility:	Reactive or incompatible with oxidizing agents.
Hazardous Decomposition:	These products are carbon oxides (CO, CO ₂).
Hazardous Polymerization:	Will not occur.

Section 11 – Toxicological Information

A: General Product Information

An acute toxicity study of this product has not been conducted. Information given in this section relates only to individual constituents contained in this preparation.

B: Component Analysis

Component	CASRN	LC-50	LD-50
Mineral Spirits	8052-41-3/64742-88-7	>5500 mg/m ³ /rat/4hr*	>5000 mg/kg/oral/rat >3000 mg/kg/dermal/rat
Distillates Petroleum Hydrotreated Heavy	64742-54-7	Not established	Not established
Dipropylene Glycol Monomethyl Ether	34590-94-8	16000 ppm/rat/4H*	5800 mg/kg/oral/rat* 20000 mg/kg/dermal/rabbit

*20,000 ppm of ingredient 64742-88-7 in air can cause death to humans in 5 to 10 minutes.



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Section 12 – Ecological Information

Mobility: Semi-volatile. Readily absorbed into soil. **Persistence and degradability:** Not readily biodegradable.

Bioaccumulative potential: No bioaccumulation potential. **Other adverse effects:** See below.

Ecological studies have not been conducted for this product. The following information is available for component(s) of this product.

Ecotoxicology:

Effect on Organisms	Component	CASRN	Test	Species	Results
Acute Toxicity on Fishes	Light Mineral Spirits	8052-41-3 64742-88-7	96h-LC ₅₀	Fathead Minnow	800 mg/L
	Distillates Petroleum Hydrotreated Heavy	64742-54-7	96h-LC ₅₀	Oncorhynchus mykiss	> 1000 mg/L
Acute Toxicity on Daphnia	Light Mineral Spirits	8052-41-3 64742-88-7	48h-LC ₅₀	Daphnia Magna	>100 mg/L
Bacterial inhibition	No Data Available				
Growth inhibition of algae	Light Mineral Spirits	8052-41-3 64742-88-7	96h-EC ₅₀	Algae	450 mg/L
Bioaccumulation in fish	No Data Available				

If spilled, the 64742-54-7 constituent may kill grasses and small plants by interfering with transpiration. Spilled material may coat gill structures of fish resulting in suffocation if spilled in shallow, running water. This product may be toxic to amphibians by preventing dermal respiration. This product may also cause gastrointestinal distress to birds and mammals through ingestion.

Section 13 – Disposal Considerations

Waste Status: Aerosol products, if depressurized and emptied to less than 2.5 cm of fluid contents are classified as non-hazardous waste under 40 CFR 261.7 (U.S.). If disposed of in its received form, this item carries waste code D001 and D003. (U.S.)

Disposal: Waste must be disposed of in accordance with national, regional, provincial, and local environmental control regulations.

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information inaccurate, incomplete, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive than federal laws and regulations.



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Section 14 – Transportation Information

D.O.T. Ground	Shipping Name:	Not Regulated	UN Number:	NA
	Hazard Class:	NA	Technical Name:	NA
	Subclass:	NA	Hazard Label:	NA
Road/Rail - ADR/RID	UN no:	1139	ADR Class:	3
	Packing group:	III	Classification code:	F1
	Name and Description:	Coating Solution	Hazard ID no:	30
	Labeling:	3	Technical Name:	NA
IMDG-IMO	UN no:	1139	Class:	3
	Shipping Name:	Coating Solution	Subsidiary Risk:	NA
	Packing Instructions:	P001, LP01	Packing group:	III
	Marine pollutant:	NO	EmS:	F-E, S-E
IATA-ICAO	UN no:	1139	Class:	3
	Shipping Name:	Coating Solution	Subclass	NA
	Packing instructions:	309, Y309	Packing group:	III
	Labeling:	Flammable Liquid		

NOTE

1-gallon containers of this product must be repacked according to IATA regulations for air shipment.

Section 15 – Regulatory Information

U.S. Federal Regulations

RCRA Hazardous Waste No.: D001

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): None

Toxic Substances Control Act (TSCA):

All components of this product are TSCA inventory listed and/or are exempt.

Superfund Amendments and Reauthorization Act (SARA) Title III

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Fire Hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372): No individual section 313 component is present at or above 1%

Section 112 Hazardous Air Pollutants (HAPs): None



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State Regulations

New Jersey RTK:

Light Mineral Spirits 8052-41-3/64742-88-7 • Aromatic Hydrocarbon Resin 68410-16-2 • Distillates Petroleum Hydrotreated Heavy 64742-54-7 • Petrolatum 8009-03-8 • Microcrystalline Wax 64742-60-5 • Dipropylene Glycol Methyl Ether 34590-94-8

California: This product does not contain chemical(s) known to the State of California to cause cancer, birth defects or reproductive harm.

California and OTC States: This product is not regulated by consumer regulations.

International Regulations

Canadian Environmental Protection Act: All of the components of this product are included on the Canadian Domestic Substances list (DSL).

Canadian Workplace Hazardous Materials Information System (WHMIS):

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: Bulk
Class B3, Class D2B



Other Regulations

Montreal Protocol listed ingredients: None.
Stockholm Convention listed ingredients: None.
Rotterdam Convention listed ingredients: None.
RoHS Compliant: Yes.

Section 16 • Other Information

MSDS# 14228 Responsible Name: Clea Johnson Regulatory Affairs Coordinator	HMIS 1996		HMIS III		NFPA Flammability Health Reactivity
	Health:	1	Health:	[/]1	
	Flammability:	2	Flammability:	2	
	Reactivity	0	Physical Hazard:	0	

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Clea Johnson, Regulatory Affairs Coordinator
LPS Laboratories, A division of Illinois Tool Works