

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product identifier : **Lustre Bright**

Product Code(s) : 00376, 00377, 00378

Product Use : Acid cleaner, Stainless steel cleaner

Chemical Family : Mixture.

Supplier's name and address:
FPF Chemical Company, Inc.
 117 West Tupper Street
 Buffalo, NY, USA
 14201

Manufacturer's name and address:
 Refer to Supplier

Information Telephone # : 1-800-735-3773

24 Hr. Emergency Tel # : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

SECTION 2 - HAZARDS IDENTIFICATION

Classification : OSHA: Hazardous classification: Corrosive; Acute Health Hazard; Chronic Health Hazard .

WHMIS classification: Class D1A (Materials Causing Immediate and Serious Toxic Effects, Very Toxic Material); Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material); Class E (Corrosive Material).

Emergency Overview : Clear, green syrupy liquid. Acidic odour.
 DANGER! Liquid may cause severe irritation or corrosive injury. May be harmful or fatal if swallowed. Harmful or fatal if inhaled or absorbed through the skin. Causes central nervous system depression. Contains material which may cause cancer, based on animal data.

POTENTIAL HEALTH EFFECTS:

Signs and symptoms of short-term (acute) exposure

Inhalation : Harmful or fatal if inhaled. Inhalation of high concentrations of fumes or mists may cause severe irritation and corrosive damage to the nose, throat and upper respiratory tract. Inhalation may cause headache, nausea and central nervous effects such as dizziness, coordination difficulties and unconsciousness. May result in unconsciousness and possibly death.

Skin : Liquid may cause severe irritation or corrosive injury. May be absorbed and cause symptoms similar to those for inhalation.

Eyes : Liquid may cause severe irritation or corrosive injury.

Ingestion : Harmful or fatal if swallowed. May cause severe irritation and corrosive damage in the mouth, throat and stomach. May be absorbed and cause symptoms similar to those for inhalation.

Effects of long-term (chronic) exposure

Carcinogenic status : Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Additional health hazards : Possible cancer hazard. See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects : See TOXICOLOGICAL INFORMATION, Section 11.

: See ECOLOGICAL INFORMATION, Section 12.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	Wt.%
Phosphoric acid	7664-38-2	60.00 - 100.00
Ethylene glycol monobutyl ether	111-76-2	10.00 - 30.00
Glycolic acid	79-14-1	10.00 - 30.00
Benzenesulfonic acid, C10-16-alkyl derivatives	68584-22-5	5.00 - 10.00
Surfactant	Proprietary	5.00 - 10.00

SECTION 4 - FIRST AID MEASURES

- Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Seek immediate medical attention/advice.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Wash thoroughly with soap and water for at least 20 minutes. Wash contaminated clothing before re-use. Seek immediate medical attention/advice.
- Eye contact** : Immediately flush eyes with running water for at least 20 minutes. Seek immediate medical attention/advice.
- Ingestion** : Seek immediate medical attention/advice. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
- Notes For Physician** : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

- Fire hazards/conditions of flammability** : Not flammable under normal conditions of handling. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Gives off hydrogen by reaction with metals.
- Flammability classification (OSHA 29 CFR 1910.1200)** : Non-flammable.
- Oxidizing properties** : None known.
- Explosion data: Sensitivity to mechanical impact / static discharge** : Not expected to be sensitive to mechanical impact or static discharge.
- Suitable extinguishing media** : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.
- Special fire-fighting procedures/equipment** : Firefighters should wear proper protective equipment and self contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.
- Hazardous combustion products** : phosphorus oxides; Carbon oxides; Sulphur oxides; irritating fumes and smoke.
- NFPA Rating**

0 - Minimal	1 - Slight	2 - Moderate	3 - Serious	4 - Severe
: <i>Health:</i> 3 <i>Flammability:</i> 0 <i>Instability:</i> 0 <i>Special Hazards:</i> 0				

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions** : All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up.
- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.
- Spill response/cleanup** : Ventilate area of release. Remove all sources of ignition. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.
- Prohibited materials** : Do not use combustible absorbents, such as sawdust.
- Special spill response procedures** : In case of a transportation accident, in the United States contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).
US CERCLA Reportable quantity (RQ): Phosphoric acid (5000 lbs / 2270 kg)

SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Use in a well-ventilated area. Wear suitable protective equipment during handling. Do not ingest. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Keep away from combustible material. Avoid contact with incompatible materials. Wash thoroughly after handling.

- Storage requirements** : Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.
- Incompatible materials** : Strong bases; Strong oxidizing agents; strong reducing agents; Metals.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container. Do not store in metal containers.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits

Ingredients	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
Phosphoric acid	1 mg/m ³	3 mg/m ³	1 mg/m ³	N/Av
Ethylene glycol monobutyl ether	20 ppm	N/Av	50 ppm (skin)	N/Av
Glycolic acid	N/Av	N/Av	N/Av	N/Av
Benzenesulfonic acid, C10-16-alkyl derivatives	N/Av	N/Av	N/Av	N/Av
Surfactant	N/Av	N/Av	N/Av	N/Av

Ventilation and engineering measures

- : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection

- : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Confirmation of which type of respirator is most suitable for the intended application should be obtained from respiratory protection suppliers.

Skin protection

- : Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers.

Eye / face protection

- : Chemical splash goggles must be worn when handling this material. A full face shield may also be necessary.

Other protective equipment

- : Wear resistant clothing and boots. Other equipment may be required depending on workplace standards. An eyewash station and safety shower should be made available in the immediate working area.

General hygiene considerations

- : Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid	Appearance	: Clear, green syrupy liquid.
Odour	: Acidic odour.	Odour threshold	: N/Av
pH	: 1.5 (0.1 N aqueous solution)		
Boiling point	: N/Av	Specific gravity	: 1.15 - 1.33
Melting/Freezing point	: N/Av	Coefficient of water/oil distribution	: N/Av
Vapour pressure (mmHg @ 20° C / 68° F)	: 0.03 - 0.08	Solubility in water	: Miscible
Vapour density (Air = 1)	: 3.4 (Phosphoric acid); 4.07 (Ethylene glycol monobutyl ether)	Evaporation rate (n-Butyl acetate = 1)	: N/Av
Volatile organic Compounds (VOC's)	: N/Av	Volatiles (% by weight)	: 100%
Flash point	: N/Av		
Flash point Method	: N/Av	Auto-ignition temperature	: N/Av
Lower flammable limit (% by vol.)	: N/Av	Upper flammable limit (% by vol.)	: N/Av
Flame Projection Length	: N/Av	Flashback observed	: N/Av

Section 10: Stability And Reactivity

- Stability and reactivity** : Stable under the recommended storage and handling conditions prescribed.
- Hazardous polymerization** : Will not occur.
- Conditions to avoid** : Avoid heat and open flame. Ensure adequate ventilation, especially in confined areas.
- Materials To Avoid And Incompatibility** : See Section 7 (Handling and Storage) section for further details.
- Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

- Target organs** : Eyes, skin, respiratory system, digestive system, central nervous system.
- Routes of exposure** : *Inhalation:* YES *Skin Absorption:* YES *Skin & Eyes:* YES *Ingestion:* YES
- Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Ingredients</u>	<u>LC₅₀(4hr)</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Phosphoric acid	25.5 mg/m ³	1250 mg/kg	>1260 mg/kg
Ethylene glycol monobutyl ether	450 ppm/4H	530 mg/kg	400 - 500 mg/kg
Glycolic acid	2520 mg/m ³	1357 mg/kg	N/Av
Benzenesulfonic acid, C10-16-alkyl derivatives	N/Av	N/Av	N/Av
Surfactant	N/Av	N/Av	N/Av

- Carcinogenic status** : Contains ethylene glycol monobutyl ether. Ethylene glycol monobutyl ether is classified as a confirmed animal carcinogen by ACGIH (Group A3).
- Reproductive effects** : Not expected to be cause reproductive effects.
- Teratogenicity** : Not expected to be a teratogen.
- Mutagenicity** : Not expected to be mutagenic in humans.
- Epidemiology** : Not available.
- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- Synergistic materials** : Not available.
- Irritancy** : Severely irritating or corrosive.
- other important hazards** : None known or reported by the manufacturer.
- Conditions aggravated by overexposure** : Pre-existing skin, eye, respiratory and central nervous system disorders.

SECTION 12 - ECOLOGICAL INFORMATION



- Ecotoxicity** : No data is available on the product itself.
- Mobility** : No data is available on the product itself.
- Persistence** : No data is available on the product itself.
- Bioaccumulation potential** : No data is available on the product itself.
- Other Adverse Environmental effects** : The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.

SECTION 13 - DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.
- Methods of Disposal** : Dispose of in accordance with federal, provincial and local hazardous waste laws.

RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14: TRANSPORT INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
49CFR/DOT	UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphoric acid; Glycolic acid)	8	II	
49CFR/DOT Additional information	This material may be shipped as a limited quantity according to 49CFR section 173.154.				
TDG	UN3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphoric acid; Glycolic acid)	8	II	
TDG Additional information	Within Canada, the Limited Quantity Exemption may apply for containers which hold specific quantities of the product. Under the TDGR, refer to section 1.17 for Limited Quantity Exemption information, if shipping under this exemption.				

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). See Section 2.

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Acute Health Hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

US State Right to Know Laws:

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

International Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). See Section 2.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16 - OTHER INFORMATION


HMIS Rating : * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
*Health: *3 Flammability: 1 Reactivity: 0*

Legend : ACGIH: American Conference of Governmental Industrial Hygienists
 CAS: Chemical Abstract Services
 CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
 CFR: Code of Federal Regulations
 DOT: Department of Transportation
 EPA: Environmental Protection Agency
 HMIS: Hazardous Materials Identification System

HSDB: Hazardous Substances Data Bank
 IARC: International Agency for Research on Cancer
 Inh: Inhalation
 MSHA: Mine Safety and Health Administration
 N/Ap: Not Applicable
 N/Av: Not Available
 NFPA: National Fire Protection Association
 NIOSH: National Institute of Occupational Safety and Health
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration
 PEL: Permissible exposure limit
 RCRA: Resource Conservation and Recovery Act
 RTECS: Registry of Toxic Effects of Chemical Substances
 SARA: Superfund Amendments and Reauthorization Act
 STEL: Short Term Exposure Limit
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations
 TLV: Threshold Limit Values
 TPQ: Threshold Planning Quantity
 TSCA: Toxic Substance Control Act
 TWA: Time Weighted Average
 WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2009
- 2. International Agency for Research on Cancer Monographs, searched 2009
- 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases (Chempendium, HSDB and RTECs).
- 4. Material Safety Data Sheet from manufacturer.
- 5. US EPA Title III List of Lists
- 6. California Proposition 65 List

<p>Prepared for: FPPF Chemical Company, Inc. 117 West Tupper Street Buffalo, NY, USA 14201 Telephone: 1-800-735-3773 Please direct all enquiries to FPPF Chemical Company</p>	
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