

LYMAN PRODUCTS: RAYTECH DIVISION

SAFETY DATA SHEET

Safety Data Sheet (in compliance with Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 2015/830), US 29CFR1910.1200, Canada Hazardous Products Regulation

Date Issued: 12/1/15
Date Revised: 5/16/19
Revision Number: Rev 1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade Name: COMPOUND M
Product Number: 41-005

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Liquid burnishing compound for magnetic finishing

Restrictions on Use: None known

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer: Lyman Products
Raytech Division
475 Smith Street
Middletown, CT 06457 USA
Information Phone Number: (860) 632-2020
E-mail:

1.4 Emergency Telephone Number

Emergency Spill Information: For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
Call ChemTel Inc. Day or Night
Within the USA and Canada: 1-800-255-3924 or
Outside the USA at +1-813-248-0585 (collect calls accepted)
Shipments within: Australia – 1-300-954-538, Brazil 0-800-591-6042, China 400-120-0751, India 000-800-099-0731
Reference Contract Number: MIS3953100

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

US Hazard Classification (29CFR 1910.1200-2012): Eye Damage Category 1, Skin Corrosion Category 1

GHS/CLP (1272/2008) Classification:

Eye Damage Category 1 (H318), Skin Corrosion Category 1 (H314)

2.2 Label Elements

Danger!



Contains: Phosphoric Acid

Hazard Statements	Precautionary Phrases
H314 Causes severe skin burns and eye damage. <p style="text-align: center;">Precautionary Phrases Continued</p> P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310 Immediately call a POISON CENTER or doctor. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water. P363 Wash contaminated clothing before reuse. P310 Immediately call a POISON CENTER or doctor. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 Immediately call a POISON CENTER or doctor. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor.	P260 Do not breathe mists or vapors. P264 Wash thoroughly after handling. P280 Wear protective gloves, protective clothing, eye protection and face protection. P405 Store locked up. P501 Dispose of contents and container in accordance with local and national regulations.

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Chemical Name	CAS#	EINECS#	GHS/CLP Classification	% w/w
Phosphoric Acid	7664-38-2	231-633-2	Metal Corrosive Category 1 (H290) Skin Corrosive Category 1B (H314) Eye Damage Category 1 (H318)	<10

The exact percentage and composition is a trade secret.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye: Flush eyes thoroughly with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Skin: Remove contaminated clothing and launder before reuse. Wash contact area with soap and water for at least 15 minutes. Get immediate medical attention.

Inhalation: Remove to fresh air. If breathing becomes difficult, administer oxygen. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

Ingestion: DO NOT induce vomiting. If the victim is fully conscious, have them rinse their mouth with water. Get medical assistance by calling a doctor or poison center. Never give anything by mouth to a person who is unconscious or drowsy.

4.2 Most Important symptoms and effects, both acute and delayed: Causes serious eye damage. Causes severe skin irritation and burns. May cause severe respiratory irritation. Ingestion may cause gastrointestinal irritation and burns.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical treatment is required for all routes of exposure.

SECTION 5: FIRE AND EXPLOSION DATA

5.1 Extinguishing Media: Use water fog, foam, carbon dioxide or dry chemical.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: None known.

Combustion Products: Thermal decomposition or combustion may generate acrid smoke and oxides of carbon, phosphorus and nitrogen. Phosphorus converts to pyrophosphoric acid when heated to 213°C (415.4°F).

5.3 Advice for Fire-Fighters:

Special Fire Fighting Procedures: Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing for all fires involving chemicals.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Ventilate the area. Keep unprotected persons away. Prevent contact with skin, and eye. Avoid contact with clothing. Wear protective equipment as prescribed in this SDS.

6.2 Environmental Precautions:

Avoid release to the environment. Report spills and releases as required to appropriate authorities.

6.3 Methods and Material for Containment and Cleaning Up:

Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. In the case of disposal, spilled material or contaminated material should be disposed of as waste as described in Section 13.

6.4 Reference to Other Sections: Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE
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7.1 Precautions for Safe Handling: Prevent contact with skin, and eye. Avoid contact with clothing. Wash thoroughly after handling. Launder contaminated clothing before reuse. Use with good industrial hygiene practices. Wear appropriate personal protective equipment.

7.2 Conditions for Safe Storage, Including any Incompatibilities: Store locked up in a cool, dry area away from incompatible materials. Keep away from children.

7.3 Specific end use(s): Case Cleaning Solution.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters: Refer to country-specific legislation for specific requirements where not listed below.

Chemical Name	Exposure Limits
Phosphoric Acid	1 mg/m ³ TWA ACGIH TLV, 3 mg/m ³ STEL 1 mg/m ³ TWA OSHA PEL 1 mg/m ³ TWA EU OEL, 2 mg/m ³ STEL 1 mg/m ³ TWA UK WEL, 2 mg/m ³ STEL 2 mg/m ³ TWA DFG MAK (inhalable aerosol), 4 mg/m ³ STEL (inhalable aerosol) France: 0.2 ppm TWA, 0.5 ppm STEL South Korea: 1 mg/m ³ TWA, 3 mg/m ³ STEL

8.2 Exposure Controls:

Appropriate Engineering Controls: General exhaust ventilation should be adequate to maintain exposures below the occupational exposure limits.

Respiratory Protection: None required for normal use. If occupational exposures are exceeded an approved respirator may be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Wear impervious gloves to prevent skin contact.

Eye Protection: Wear chemical safety goggles if eye contact is possible.

Other Protective Equipment: Wear other protective equipment as necessary to avoid contact with skin and clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties

Appearance: Clear light blue liquid	Vapor Density: No data available
Odor: Faint	Specific Gravity: 1.13
Odor Threshold: No data available	Solubility: Complete
pH: 3.7 – 4.1	Octanol/Water Partition Coefficient: No data available
Melting Point/Freezing Point: No data available	Autoignition Temperature: No data available
Boiling Point: 200-215°F (93.3-101.7°C)	Decomposition Temperature: No data available
Flash Point: None	Viscosity: No data available
Evaporation Rate: (Ether = 1) <1	Explosive Properties: Not explosive
Flammable Limits: LEL: No data available UEL: No data available	Oxidizing Properties: Not an oxidizer
Vapor Pressure: No data available	Flammability (solid, gas): Not applicable

9.2 Other Information: None available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Not reactive under regular storage and handling conditions.

10.2 Chemical Stability: Stable under regular storage and handling conditions.

10.3 Possibility of Hazardous Reactions: None expected.

10.4 Conditions to Avoid: None known.

10.5 Incompatible Materials: Strong acids, bases and oxidizers.

10.6 Hazardous Decomposition Products: Thermal decomposition or combustion may generate oxides of carbon and nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eye Contact: Contact causes severe eye irritation, burns and possible permanent damage.

Skin Contact: Causes severe irritation with possible burns.

Inhalation: Inhalation of mist or vapor causes nose, throat and respiratory irritation.

Ingestion: Ingestion may cause gastrointestinal irritation and burns.

Acute Toxicity Values:

Phosphoric acid: Oral rat LD50: 1530 mg/kg; Inhalation rat LC50: >850 mg/m³/1Hr; Skin rabbit LD50: 2740 mg/kg.

Skin corrosion/irritation: No data available for mixture. Product is classified as a skin corrosive.

Eye damage/irritation: No data available for mixture. Product is classified as causing eye damage.

Respiratory Irritation: No data available for mixture. Product is not classified as a respiratory irritant but may cause irritation.

Respiratory Sensitization: No data available for mixture. Product is not classified as a skin sensitizer.

Skin Sensitization: No data available for mixture. Product is not classified as a respiratory sensitizer.

Germ Cell Mutagenicity: No data available for mixture. Product is not classified as a germ cell mutagen.

Carcinogenicity: None of the components of this product present at 0.1% or greater are listed as carcinogens by OSHA, IARC, NTP, ACGIH and the EU CLP.

Reproductive Toxicity: No data available for mixture. Product is not classified as a reproductive toxin.

Aspiration Hazard: No data available for mixture. Product is not classified as an aspiration hazard.

Specific Target Organ Toxicity:

Single Exposure: No data available

Repeat Exposure: No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Phosphoric Acid: 96 hr. LC50 Mosquitofish- 138 mg/L

12.2 Persistence and Degradability: No data available.

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB Assessment: Not required.

12.6 Other Adverse Effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS
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13.1 Waste Treatment Methods:

Dispose in accordance with all local, state and national regulations.

SECTION 14: TRANSPORTATION INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	UN1805	Phosphoric Acid Solution	8	III	None
Canadian TDG	UN1805	Phosphoric Acid Solution	8	III	None
EU ADR/RID	UN1805	Phosphoric Acid Solution	8	III	None
IMDG	UN1805	Phosphoric Acid Solution	8	III	None
IATA/ICAO	UN1805	Phosphoric Acid Solution	8	III	None

14.6 Special Precautions for User: Not applicable

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: Releases above the RQ of 50,000 lbs. (based on the RQ for Phosphoric acid of 5,000 lbs. present at <10%) must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:

Hazard Category for Section 311/312: Acute Health

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on TSCA.

STATE REGULATIONS:

California Proposition 65: This product contains substances known to the State of California to cause cancer, birth defects or other reproductive harm.

INTERNATIONAL REGULATIONS:

Canadian Environmental Protection Act: All of the components are listed on the Canadian Domestic Substances List.

European Union: At least one of the components are not listed on the European Inventory of New and Existing Chemical Substances (EINECS) inventory.

Australia: All of the ingredients of this product are listed on the Australian Inventory of Chemical Substances (AICS).

China: All of the ingredients of this product are listed on the Inventory of Existing Chemical Substance in China (IECSC).

Korea: All of the components of this product are listed on the Korean Existing Chemical List (KECL).

Japan: At least one of the components are not listed on the Japanese Existing and New Chemical Substances List (ENCS).

New Zealand: All of the ingredients of this product are listed on the New Zealand Inventory of Chemicals (NZIoC).

Philippines: All of the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

German WGK: 1

SECTION 16: OTHER INFORMATION

HMIS Ratings: Health - 3

Flammability - 0

Physical Hazard - 0

NFPA Ratings: Health - 3

Flammability - 0

Instability - 0

Date of Current Revision: 12/1/15

Revision Summary: New document.

Date of Previous: Revision: None

GHS Classification for Reference (See Sections 2 and 3):

H290 May be corrosive to metals

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H319 Causes serious eye irritation

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This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide.
Lyman Products shall not be held liable for any damage resulting from handling or from contact with the above product.