



THATCHER COMPANY MATERIAL SAFETY DATA SHEET
PRODUCT: COMPLETE
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MSDS Date: June 1, 2005
Emergency Contact: 1-800-424-9300

SECTION I

PRODUCT NAME: Complete

DOT SHIPPING INFORMATION: Corrosive liquid, acidic, inorganic,
n.o.s. (phosphoric acid, sulfuric acid) UN 3264

SECTION II - HAZARDOUS INGREDIENTS

This material contains no ingredients which are known by Thatcher Company to be hazardous unless listed below.

HAZARDOUS MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR
Phosphoric Acid	7664-38-2	8.5%	1 mg/m ³ PELOSHA
Sulfuric Acid	7664-93-9	9.5%	1 mg/m ³ TLV ACGIH

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

This product is subject to SARA section 313 reporting requirements.

SECTION III - PHYSICAL DATA

BOILING POINT @ 760 mm Hg °C: n/a **SPECIFIC GRAVITY @ 77 °F:** 1.15
VAPOR PRESSURE @ 68 °F: n/a **% VOLATILE, BY VOLUME:** Non-volatile
VAPOR DENSITY (air = 1): Non-volatile **EVAPORATION RATE:** Non-volatile
SOLUBILITY IN WATER: Complete
APPEARANCE AND ODOR: Clear, colorless liquid , pungent odor.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: Non-flammable

FLAMMABLE LIMITS:
Lel: N/A Uel: N/A

EXTINGUISHING MEDIA:
Water, carbon dioxide, powder.

SPECIAL FIRE-FIGHTING PROCEDURES:
N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS:
This product can react with and cause damage to soft metal such as aluminum, copper, brass or zinc (galvanized) to produce flammable, potentially explosive hydrogen gas.



SECTION V - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS OR MATERIALS TO AVOID: n/a

HAZARDOUS DECOMPOSITION PRODUCTS:

Can emit toxic fumes of phosphorous oxides and sulfur oxides with high temperatures. Will emit chlorine gas if mixed with chlorinated products.

SECTION VI - HEALTH HAZARD DATA

NFPA HAZARDOUS RATING: Health = 2 Flammability = 0 Reactivity = 1

Carcinogenic Listing:

NTP: No ingredients listed in this section.

IARC MONOGRAPHS: No ingredients listed in this section.

OSHA 29 CFR 1910: No ingredients listed in this section.

Eye Contact: Corrosive to the eyes, may cause severe damage.

Inhalation: Irritating to the nose, throat, and respiratory tract.

Ingestion: Harmful if swallowed. Swallowing product can cause severe burns to lining of throat and stomach.

Skin Contact: Substance is corrosive. Causes severe skin burns.

STATEMENT OF PRACTICAL TREATMENT:

Contact: Remove contaminated clothing and flush exposed area thoroughly with water while under a safety shower. Do not attempt to neutralize with chemical agents. Wash contaminated clothing before reuse. For eyes, flush thoroughly with cool water for at least 15 minutes, lifting upper and lower lids intermittently. Get medical attention - Preferably an Ophthalmologist.

Inhalation: Remove to fresh air. If not breathing, use CPR or artificial respiration. Get **immediate** medical attention!

Ingestion: Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by poison control center or doctor. Do not give anything to an unconscious person



SECTION VII - SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Wear proper safety equipment (goggles, face shield, impervious protective clothing, gloves and footwear). Wash thoroughly after handling. When diluting, always add acid **slowly** to water and stir well to avoid spattering. NEVER ADD WATER TO ACID. Store containers in a cool, well-ventilated area away from incompatible materials.

SECTION VII - SPECIAL PRECAUTIONS (CONT'D)

STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:

Wear suitable protective clothing and safety equipment. For small spills: Neutralize the spill area with soda ash, sodium bicarbonate or lime, flush area with copious amounts of water. Exercise caution during neutralization as considerable heat may be generated. For larger spills: Dike far ahead of spill for later disposal. Keep unnecessary people away. Isolate hazard area and deny entry.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. NOTE: This material is a RCRA hazardous waste due to corrosivity (D002). Spills are subject to CERCLA reporting requirements: RQ = 5000 lbs.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Use a NIOSH/MSHA approved respirator for acid mists when handling spills or leaks, or when airborne concentrations exceed exposure limits.

VENTILATION:

Local exhaust ventilation.

EYE PROTECTION:

Chemical goggles and full faceshield, unless a full facepiece respirator is also worn. Contact lenses should not be worn.

SKIN PROTECTION:

Full-body acid-resistant protective clothing, acid-resistant gloves made of neoprene, nitrile or natural rubber and boots.

OTHER PROTECTIVE EQUIPMENT:

A Safety shower and eyewash should be available in the work area.

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ACGIH = American Conference of Governmental Industrial Hygienists

CL = Ceiling Level

IARC = International Agency for Research on Cancer: Monographs

OSHA = Occupational Safety and Health Administration

N/A = Not Applicable

NTP = National Toxicology Program: Annual Report on Carcinogens

PEL = Permissible Exposure Level (OSHA)

TLV = Threshold Limit Value (ACGIH)

TWA = Time Weighted Average over 8 Hours

STEL = Short Term Exposure Limit (ACGIH)

ND = Not Determined

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.