

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

Product Name: **AC-55**
Product Use: Descaler, cleaner, rust remover
WHMIS Class: D2B, E
TDG Classification: Class 8
Packing group: II
UN Number: UN3264
T.DG. Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC,
N.O.S (Phosphoric Acid).

Manufactured by:
Chemotec (PM) Inc.
8820 Place Ray Lawson
Anjou, Quebec, Canada H1J 1Z2
Telephone: (514) 729-6321; 1-800-729-6321

Emergency Phone: as above or call **CANUTEC** (613) 996-6666 in case of **chemical emergency only.**

SECTION 2: HAZARDOUS INGREDIENTS

| <u>Ingredients</u> | <u>CAS #</u> | <u>Wt %</u> | <u>TLV</u> | <u>LC₅₀</u> | <u>LD₅₀</u> |
|--------------------|--------------|-------------|---------------------|------------------------|---|
| Phosphoric acid | 7664-38-2 | 10 - 30 | 1 mg/m ³ | n/a | 1530 mg/kg (oral, rat) 2740 mg/kg (dermal, rabbit) |

SECTION 3: PHYSICAL DATA

| | |
|---|--|
| Boiling Point (°C): > 100. | Specific Gravity (H ₂ O = 1): 1.14 at 20 °C |
| Vapor Pressure (mm Hg): n/a | % Volatile (Wt %): 70 - 80 |
| Vapor Density (Air = 1): n/a | Evaporation Rate (Water = 1): > 1 |
| Solubility in Water: Complete | pH (as supplied): Approximately 1-2 |
| Physical State: Liquid | Viscosity: < 1000 cps at 25 °C |
| Appearance and Odor: Colorless liquid, no or little odour. | Odor Threshold (ppm): n/a |

SECTION 4: FIRE AND EXPLOSION DATA

Flammability: Non flammable, non combustible.

Flash Point (TCC, °C): > 93.3

LEL: Not applicable

UEL: Not applicable

Hazardous Combustion Products: Carbon oxides, phosphorus oxides, pyrophosphoric acid, metaphosphoric acid, polyphosphoric acid.

Autoignition Temperature (°C): Not applicable.

Means of Extinction: Foam, dry chemicals, carbon dioxide, water.

Special Fire Hazards: None.

SECTION 5: REACTIVITY DATA

Conditions for Chemical Instability: This product is stable under normal conditions. It does not polymerize.

Incompatible Materials: Strong oxidizing agents, strong reducing agents, alkalis, bases, carbonates, organic peroxides, sulfides, cyanides, fluorides and metals.

Reactivity and Under What Conditions: If strongly heated or if in contact with metals, hydrogen, a flammable gas, will be produced.

Hazardous Decomposition Products: Carbon oxides, phosphorus oxides.

SECTION 6: TOXICOLOGICAL PROPERTIES

Route of Entry: Eyes, skin, ingestion, inhalation.

EFFECTS OF ACUTE EXPOSURE:

Eye: Corrosive to eye tissues; may cause severe damage including blindness.

Skin: Corrosive to skin, burns.

Ingestion: Gastrointestinal pain, gastritis, vomiting. Severe intoxication: nausea, vomiting, vertigo, cardio vascular collapse, asphyxia, death.

Inhalation: Irritation of mucous membrane and superior respiratory tract. Corrosive. Cough, snuffling, respiratory difficulties. May cause pulmonary edema.

EFFECTS OF CHRONIC EXPOSURE:

Irritancy: Prolonged or repeated contacts with skin may cause some irritation: skin dryness, redness, dermatitis.

Skin Sensitization: No applicable information found.

Carcinogenicity: No ingredients are carcinogenic.

Teratogenicity, Reproductive Effects: No ingredients are teratogenic.

Mutagenicity: No ingredients are mutagenic.

Synergistic Materials: None known

SECTION 7: PREVENTATIVE MEASURES

Gloves: Plastic or rubber gloves

Eye Protection: Safety glasses with side shields.

Respiratory Protection: Not required, if adequate ventilation is available.

Other Protective Equipment: Waterproof boots and apron if large spill.

Engineering Controls: Shower and eye wash station if large quantities are manipulated. Provide adequate ventilation.

Leak and Spill Procedure: Wear personal protective equipment. Stop the leak. Absorb the product with inert absorbent and place it in a tightly closed container for destruction.

Waste Disposal: Dispose according to federal, provincial and regional regulations.

Storage Requirements: Keep in original tightly closed containers, in a well ventilated room, sheltered from any source of incompatible substances. Avoid freezing.

SECTION 8: FIRST AID

Eye: Immediately rinse with plenty of water for several minutes, keeping eyelids open. Seek medical attention.

Skin: Rinse with water. Remove soiled clothes and wash before wearing. Seek medical attention if irritation persists or if blistering occurs.

Inhalation: Bring the person to fresh air.

Ingestion: Give plenty of water. Do not induce vomiting. Seek medical attention.

SECTION 9: PREPARATION INFORMATION

Date: 2011-09-22

Prepared by:

Phone: (514) 729-6321

Chemotec (PM) Inc.

Abbreviation:

n/a: not available

Disclaimer

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Center for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-800-263-8276) or CSST in Montreal (514-873-3990).