

MATERIAL SAFETY DATA SHEET FOR CANTESCO® ALUMINUM CLEANER

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : CANTESCO® ALUMINUM CLEANER
PRODUCT IDENTIFIER : ALUMINUM CLEANER
PRODUCT USE : ACID BASE PREPARES ALUMINUM AND ALUMINUM ALLOY SURFACES
ITEM CODE(S) : AC-1Q, AC-1G, AC-5G, AC-DR
AC-1L, AC-4L, AC-20L
UPC BAR CODE(S) : 10050, 10055, 10060, 10065
FORMULA NAME : ALCLEAN
FORMULA CODE : 48002
MSDS CODE : 28
E-MAIL ADDRESS : MSDS@CANTESCO.COM
WEB ADDRESS : WWW.CANTESCO.COM
USA ADDRESS : CANTESCO CORPORATION USA
PMB 023 - 60 INDUSTRIAL PARKWAY
CHEEKTOWAGA, NY 14227
PH (716) 693-8206
FAX (716) 693-8373
CANADIAN ADDRESS : CANTESCO CORPORATION
13 - 5200 DIXIE ROAD
MISSISSAUGA, ON L4W 1E4
PH (905) 624-5463
FAX (905) 624-2840
PREPARED BY : QUALITY MANAGER
TELEPHONE : (905) 624-5463
EMERGENCY TELEPHONE : (613) 996-6666 (CANUTEC – Call collect)
PREPARATION DATE : MARCH 01, 2008
OSHA REGULATORY STATUS : REGULATED
WHMIS CLASSIFICATION : D2A

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

| HAZARDOUS INGREDIENTS | CAS | OSHA PEL | ACGIH TLV | LD50 SPECIES/ROUTE | LC50 SPECIES/ROUTE | %WT |
|-----------------------|-----------|-----------|-----------|-----------------------|--------------------|---------|
| PHOSPHORIC ACID | 7664-38-2 | 1 mg/m3 | 1 mg/m3 | 1530 mg/kg (rat) oral | N/Av | 5 – 10% |
| AMMONIUM BIFLUORIDE | 1341-49-7 | 2.5 mg/m3 | 2.5 mg/m3 | N/Av | N/Av | 1-5% |

SECTION 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER! CORROSIVE. CAUSES SEVERE EYE IRRITATION AND BURNS TO EVERY AREA OF CONTACT. AVOID CONTACT WITH SKIN AND EYES.

EYE: Liquid or vapors may cause redness, burning, tearing, swelling and/or pain.

SKIN: Frequent or prolonged contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

INGESTION: May cause irritation to membranes of the mouth, throat and gastrointestinal tract, resulting in vomiting and/or cramps.

INHALATION: Prolonged or repeated overexposure is anesthetic. May cause irritation of the respiratory tract, or acute nervous system depression characterized by headache, dizziness, staggering gait, or confusion.

EFFECTS OF ACUTE EXPOSURE: N/Av

EFFECTS OF CHRONIC EXPOSURE: N/ Av

OTHER IMPORTANT HAZARDS: N/Av

SUGGESTED HMIS RATING: HEALTH | 3 | FLAMMABILITY | 0 | REACTIVITY | 2 | PERSONAL PROTECTION | C |

SECTION 4. FIRST AID MEASURES

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist or if unconscious.

INGESTION: Should actual ingestion occur, do not induce vomiting! Drink a glass of water to dilute. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

EYE CONTACT: Immediately flush with plenty of clear water for at least 15 minutes. Make sure to flush under the eyelids. Consult a physician for definitive treatment.

SKIN CONTACT: Remove with soap and water. Continue flushing with water for several minutes. Use skin cream to counter resulting dryness. Consult a physician if irritation continues or if large skin area is affected.

SECTION 5. FIRE FIGHTING MEASURES

CONDITIONS OF FLAMMABILITY: Not flammable.

MEANS OF EXTINCTION: This material is not combustible, use extinguishing material appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool fire exposed containers for containers can rupture violently from heat developed pressure.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

FLASH POINT / DETERMINATION: None.

UPPER FLAMMABLE LIMIT: N/E

LOWER FLAMMABLE LIMIT: N/E

AUTO-IGNITION TEMPERATURE: N/Av

HAZARDOUS COMBUSTION PRODUCTS: N/Av

EXPLOSION DATA - SENSITIVITY TO MECHANICAL IMPACT: N/Av

EXPLOSION DATA - SENSITIVITY TO STATIC DISCHARGE: N/Av

SECTION 6. ACCIDENTAL RELEASE MEASURES

LEAK / SPILL RESPONSE: Dilute small leaks or spills cautiously with plenty of water. Neutralize residue with alkali such as soda ash or lime. Ensure that all spilled material is promptly cleaned up. Absorb with inert material such as vermiculite or paper towels, place in a chemical waste container for eventual disposal. Seal and label the container as waste. Dispose of in accordance with all federal, state, provincial and local regulations.

SPECIAL INSTRUCTIONS: Area should be ventilated immediately and continuous ventilation provided until all fumes and vapors have been removed. See Section 13 for disposal considerations.

SECTION 7. HANDLING AND STORAGE

HANDLING PROCEDURES / EQUIPMENT: Do not store in glass containers, handle with extreme care as material is very corrosive.

STORAGE REQUIREMENTS: Store in a cool dry, well ventilated area. Keep container closed when not in use. Do not store where contact with incompatible materials could occur.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION: Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling. Where eye contact could occur, chemical splash proof goggles are recommended.

SKIN PROTECTION: For brief contact, no precautions other than clean body-covering clothing should be needed. When prolonged or repeated contact could occur, use protective clothing such as Sol-Vex® gloves or other clothing impervious to the ingredient listed in Section 2.

ENGINEERING CONTROLS: General ventilation (typically 10 air changes for hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system, may be needed to control air contamination below that of the lowest TLV/PEL rated ingredient from Section 2.

EXPOSURE GUIDELINE LEVELS: Since this product is a mixture, an OSHA or ACGIH exposure value is not available. In determination of any exposure procedures, protection or testing use the lowest rated ingredient in Section 2.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---------------------------------------|---|--------------------------------|
| PHYSICAL STATE | : | Liquid |
| ODOR AND APPEARANCE | : | Slight acid odor, clear liquid |
| ODOR THRESHOLD | : | N/Av |
| SPECIFIC GRAVITY (H ₂ O=1) | : | Below 1.0 |
| VAPOUR PRESSURE (mm HG) | : | Greater than air |
| VAPOUR DENSITY (AIR=1) | : | Above 1.0 |
| EVAPORATION RATE (BA=1) | : | N/Av |
| BOILING POINT (°F) | : | N/Av |
| FREEZING POINT (°F) | : | N/Av |
| pH | : | <4.0 |
| COEFFICIENT OF WATER/OIL DISTRIBUTION | : | N/Av |
| DENSITY | : | 1.070 |
| SOLUBILITY IN WATER | : | Negligible |
| % VOLATILE BY VOLUME | : | N/Av |
| VOC'S | : | N/Av |

SECTION 10. STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS TO AVOID: Incompatibilities.

MATERIALS TO AVOID (INCOMPATIBILITIES): Strong oxidizing materials.

CONDITIONS OF REACTIVITY: N/Av

HAZARDOUS DECOMPOSITION BYPRODUCTS: Phosphorous oxides, hydrogen fluoride, nitric oxides and ammonia when heated to decomposition

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

LD50: N/Av

LC50: N/Av

ROUTES OF ENTRY: INHALATION[Y] EYE CONTACT[Y] SKIN CONTACT[Y] SKIN ABSORPTION[Y] INGESTION[N]

EXPOSURE LIMITS: Since this product is a mixture, an OSHA or ACGIH exposure value is not available. In determination of any exposure procedures, protection or testing use the lowest rated ingredient in Section 2.

IRRITANCY OF PRODUCT: N/Av

SENSITIZATION TO PRODUCT / MEDICAL CONDITIONS AGGRAVATED: N/Av

CARCINOGENICITY: None of the ingredients in this product are listed with IARC, NTP or OSHA as being carcinogenic.

TERATOGENICITY / MUTAGENICITY / REPRODUCTIVE TOXICITY: N/Av

TOXICOLOGICAL DATA: N/Av

SECTION 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS: This product has not been tested for environmental effects.

IMPORTANT ENVIRONMENTAL CHARACTERISTICS: N/Av

AQUATIC TOXICITY: N/Av

SECTION 13. DISPOSAL CONSIDERATIONS

When disposing of the unused contents, the preferred options are to send to a licensed reclaimer, or to permitted incinerators. Any disposal practice must be in compliance with local, state and federal laws and regulations. Do not dump into sewers, on the ground or into any body of water.

SECTION 14. TRANSPORTATION INFORMATION

SPECIAL SHIPPING INFORMATION : N/Av

DOT HM-181 SHIPPING INFORMATION

PROPER SHIPPING NAME : Corrosive Liquids N.O.S. (Phosphoric Acid)
HAZARD CLASS OR DIVISION : 8
UN NUMBER : 1760
PACKAGING GROUP : II
LABEL(S) REQUIRED : Corrosive Liquid

TDG SHIPPING INFORMATION

TDG SHIPPING NAME : Corrosive Liquids N.O.S.* (Phosphoric Acid)
TDG CLASSIFICATION : 8
UN NUMBER : 1760
PACKING GROUP : II
LABEL(S) REQUIRED : Corrosive Liquid
NAERG : 154
EMERGENCY TELEPHONE NUMBER : (613) 996-6666

SECTION 15. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA): The product on this MSDS, or all of its components, is listed under TSCA.

SARA TITLE III, SECTION 313: The following ingredients are subject to the reporting requirements of section 313 of Title III of the Superfund and Reauthorization Act of 1986 and 40 CFR Part 372: None

CLEAN AIR ACT (CAA): The following ingredients appear on the List of Hazardous Air Pollutants (HAP – 42 USC 7412, Title I, Part A, p112): None

CLEAN WATER ACT (CWA):The following ingredients appear on the CWA List of Hazardous Substances (40 CFR 116.4): None

CALIFORNIA PROPOSITION 65: The following ingredients appear on the Proposition 65 list(s): None

CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS): This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

DOMESTIC SUBSTANCES LIST (DSL): The product on this MSDS, or all of its components, is included in the DSL.

SECTION 16. OTHER INFORMATION

N/E Not Established
N/Av Not Available
N/Ap Not Applicable
IARC International Agency for Research on Cancer
ACGIH American Conference of Governmental Industrial Hygienists
NIOSH National Institute for Occupational Health and Safety
TLV-TWA Threshold Limit Values, Time Weighted Average
NAERG North American Emergency Response Guidebook
WHMIS Workplace Hazardous Materials Information System

This MSDS format meets ANSI Z400.1-1998, OSHA 1910.1200 and WHMIS requirements. Cantesco Corporation provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Product use and conditions of use are beyond the control of Cantesco Corporation. Warranty of materials is limited to test results of product performance as detailed in certificates of compliance. Interpretation of test results is the responsibility of end-user. No other warranties, expressed or implied, are made. Cantesco Corporation is an ISO 9001:2000 registered company.

ADDITIONAL INFORMATION REPLY FORM – PLEASE FAX OR EMAIL BACK

PLEASE ADD ME TO YOUR MSDS DATA BASE FOR PRODUCT UPDATES:

| | | | |
|---------------|--|-------------------|--|
| NAME | | TITLE / DEPT | |
| FIRM | | | |
| ADDRESS | | | |
| CITY | | | |
| STATE / PROV | | ZIP / POSTAL CODE | |
| PHONE | | FAX | |
| EMAIL ADDRESS | | | |

PLEASE SEND ME INFORMATION ON THE FOLLOWING CANTESCO® PRODUCTS:

| | |
|---|--|
| WELDING CHEMICAL PRODUCTS | |
| AUTOMOTIVE, TRUCK & BUS FLEET WASH PRODUCTS | |
| CONSUMER CLEANING PRODUCTS | |
| INDUSTRIAL & INSTITUTIONAL CLEANERS | |
| HVAC CHEMICAL PRODUCTS | |