

MATERIAL SAFETY DATA SHEET

HMIS HAZARDOUS MATERIALS

(Prepared According to 29 CFR 1910.1200 & WHMIS)

IDENTIFICATION SYSTEM

A = Safety Glasses
B = A + Gloves
C = B + Apron
D = C + Face Shield
E = B + Dust Mask

F = C + Dust Mask
G = B + Respirator
H = F + Goggles
I = B + Respirator
X = Ask Supervisor

4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant

Health.... 3
Flammability.... 1
Physical Hazard..... 1
Protection.... C

SECTION I - PRODUCT IDENTIFICATION

Product Code: 427

Supersedes date: March 13, 2007

Section(s) changed: I, X

Effective date: February 4, 2009

PRODUCT NAME: ARJO GENERAL PURPOSE DISINFECTANT

CHEMICAL FAMILY: Acid Detergent Cleaner, Descaler

GENERIC NAME: Cleaner Concentrate

FORMULA: Proprietary Mixture

DISTRIBUTORS NAME: ArjoHuntleigh

DISTRIBUTORS ADDRESS: Unit C, 1575 South Gateway Rd.

INFORMATION PHONE NUMBER: 800-665-4831

Mississauga, Ontario L4W 5J1

EMERGENCY PHONE NUMBER IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE OR ACCIDENT: 800-665-4831

PROPER SHIPPING DESCRIPTION:

> 1 Gal: Disinfectants, liquid, corrosive, n.o.s. (Contains quaternary ammonium compounds), 8, UN1903, III

LABEL: Corrosive

< 1 Gal: Consumer Commodity, ORM-D

LABEL: None

DIN [Drug Identification Number]: 02241539

WHMIS CLASSIFICATION: Not applicable--classified as a drug

CHEMICAL COMPONENTS: Water, n-Alkyl (C₁₄, 50%; C₁₂, 40%; C₁₆, 10%) Dimethyl Benzyl Ammonium Chloride, Octyl decyl dimethyl ammonium chloride, Dioctyl dimethyl ammonium chloride, Didecyl dimethyl ammonium chloride, Hydroxy Ethylidene Diphosphonic Acid, Citric Acid, Nonoxynol-9.

SECTION II - HAZARDOUS INGREDIENTS

| CHEMICAL NAME | CAS No. | Wt% | OSHA PEL | ACGIH TLV | OTHER |
|---|------------|------|----------------------|----------------------|-------|
| Citric Acid | 77-92-9 | | 10 mg/m ³ | 10 mg/m ³ | |
| Hydroxy Ethylidene Phosphonic Acid | 2809-21-4 | | | | |
| Octyl decyl dimethyl ammonium chloride | | 3.26 | | | |
| Dioctyl dimethyl ammonium chloride | | 1.63 | | | |
| Didecyl dimethyl ammonium chloride | 68424-95-3 | 1.63 | | | |
| n-Alkyl (C ₁₄ , 50%; C ₁₂ , 40%; C ₁₆ , 10%) | | | | | |
| Dimethyl benzyl ammonium chloride | 68424-85-1 | 4.34 | | | |

The information & recommendations set forth herein are presented in good faith & believed to be current & reliable. The manufacturer makes no representation as to the completeness or accuracy thereof & supplies information upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to use. In no event will the manufacturer be responsible for any damage of any nature whatsoever resulting from the use of or reliance upon this information. No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which it refers.

SECTION III - PHYSICAL/CHEMICAL DATA

Physical State: Liquid
Boiling Point: ~100°C (212°F)
Freezing Point: ~0°C (32°F)
Specific Gravity: 1.01
Coefficient of Water/
Oil Distributions: NA
Odour Threshold: NA
Odour and Appearance: Clear, Yellow Liquid, Lemon Odour

Vapor Pressure (mm Hg): NE
Vapor Density (Air=1): NE
Evaporation Rate: NE
pH Concentrate: 2
pH Use Dilution: 3
%Volatile by volume: 82%
Solubility in Water: Complete

SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLAMMABILITY: No Data FLASH POINT (Method Used): Not Known LIMITS: LEL:NA UEL:NA
AUTOIGNITION TEMPERATURE: Not self-igniting TDG FLAMMABILITY CLASS: NA
MEANS OF EXTINCTION: Water spray or fog, foam, dry chemical, carbon dioxide, alcohol foam, if product is involved.
SPECIAL FIRE FIGHTING PROCEDURES: Use NIOSH/MSHA approved self-contained breathing apparatus and protective clothing.
UNUSUAL FIRE & EXPLOSION HAZARD: Use water spray to cool adjacent fire exposed containers. Product will not burn but may splatter if temperature exceeds boiling point.
HAZARDOUS COMBUSTION PRODUCTS: Carbon Dioxide, Carbon Monoxide; Nitrous Oxides.
RATE OF BURNING: Unknown SENSITIVITY TO STATIC DISCHARGE: None

SECTION V - REACTIVITY DATA

Stability: Stable. Store in a cool dry place.
Hazardous Polymerization: Will not occur.
Incompatibility (Materials to Avoid): Strong alkalis; Cyanides.
Hazardous Decomposition Products: If burned, normal combustion products:
Hydrogen gas in contact with some metals. Phosgene.

SECTION VI - STORAGE & HANDLING INFORMATION

KEEP OUT OF REACH OF CHILDREN. DANGER.
Do not contaminate water, food or feed. Avoid all contact. Store upright in original closed container.
Other Precautions: Do not get in eyes, on skin or on clothing. Remove & wash contaminated clothing before reuse.

SECTION VII - TOXICOLOGICAL PROPERTIES OF PRODUCT

Carcinogenicity: NE NTP? NE IARC Monographs? NE OSHA REGULATED? NO
ROUTES OF ENTRY: Skin Contact, Eye contact, Chronic Inhalation, Ingestion
EFFECTS OF ACUTE EXPOSURE: **Ingestion:** May cause marked local irritation of the gastrointestinal tract accompanied by nausea and vomiting. Signs of systemic effects may occur; including restlessness, apprehension, weakness, shortness of breath, cyanosis, convulsions and coma.
Death occurs as a result of paralysis of the respiratory muscles. **Eyes:** Eye contact causes painful damage and corneal irritation. **Skin:** Contact can cause redness, burns, pain and blistering. **Inhalation [of mist]:** Can cause nose, throat and respiratory tract irritation, coughing and headache.
EFFECTS OF CHRONIC EXPOSURE: Based upon the information available for similar products, it is anticipated that this material will be corrosive to the skin and eyes upon direct or prolonged contact. Solvent vapours or mists of product can produce irritation of mucous membranes. Ingestion can produce immediate burning pain in the mouth, throat and abdomen. Severe internal damage can occur if ingested and may be fatal. Exposure to ethyl alcohol concentrations over 1,000 ppm cause headaches, irritation of the eyes, nose and throat, and if long continued, drowsiness and lassitude, a loss of appetite and inability to concentrate.
IRRITANCY OF PRODUCT: LD₅₀=Oral (rat): NE. LD₅₀=Dermal (rabbit): NE LC₅₀=NE
EXPOSURE LIMITS OF PRODUCT: NA SENSITIZATION TO PRODUCT: In rare instances
CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY: NA

SECTION VIII - PREVENTATIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: See below for specific preventative measures
GLOVES: Protective gloves for handling concentrate, optional but recommended for diluted product.
RESPIRATORY: Proper ventilation must be provided in accordance with good ventilation practices in processes where TLV may be exceeded, or mists and/or vapours may be generated. Aerosols generated in cleaning and disinfection may because irritation to the eyes, nose, throat and respiratory system. Some individuals may be more susceptible to respiratory irritation and those individuals should wear appropriate respiratory protection during cleaning and disinfection to prevent inhalation of possible airborne disinfectant aerosol particles.
CLOTHING: As required by employer code. ENGINEERING CONTROLS: General ventilation normally adequate
FOOTWEAR: None Required EYE: Chemical splash goggles, face shield for handling concentrate, optional but recommended for

SECTION VIII - PREVENTATIVE MEASURES (CONT'D.)

diluted product

LEAK AND SPILL PROCEDURE: Danger! Floors may become slippery. Contain spill. Do not reuse empty containers.

SECTION VIII - PREVENTATIVE MEASURES

If accidentally spilled on floor, wipe up immediately as staining may occur.

WASTE DISPOSAL: Neutralize carefully with soda, ash or limestone. Dispose in accordance with applicable Federal, Provincial and local regulations.

HANDLING PROCEDURES & EQUIPMENT: See above.

STORAGE REQUIREMENTS: Store at ambient temperature. Do not store on side to avoid impacting and creasing of walls. Keep out of reach of children

SPECIAL SHIPPING INFORMATION: Keep separate from alkalis.

SECTION IX - FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES:

EYES: Flush with flowing water for 15 minutes & see physician.

INGESTION: In case of accidental ingestion and the victim is conscious, give 2 to 3 glasses of mild soap solution or egg whites beaten in water. Do not induce vomiting. Avoid alcohol. **CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. Note to physician:** This product may cause mucosal damage and systemic effects on accidental

ingestion. Gastric lavage with mild soap solution under medical supervision may be helpful if done early -- within about 15 to 30 minutes after ingestion. Maintain clear airway and administer oxygen with artificial respiration if necessary. Measures against circulatory shock may be necessary. If convulsions occur, they may be controlled by the cautious intravenous injection of a short acting barbiturate drug.

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SKIN: Immediately flush with water. Call a physician if irritation develops. Completely decontaminate clothing, shoes and leather goods before reuse or discard.

INHALATION: Move victim to fresh air. If symptoms persists, call a physician.

SECTION X - PREPARATION INFORMATION

PREPARED BY: R. Manson
VP QA & Reg. Compliance 314-771-6600

NE - Not Established **NA** - Not Applicable **GT** - Greater Than

Manufactured by: Intercon Chemical Company 1100 Central Industrial Drive, St. Louis, MO 63110