



## **MATERIAL SAFETY DATA SHEET**



| I - PRODUCT IDENTIFICATION AND USE MSDS ID: 2918851  |             |   |                                  |                                   |                      |  |
|--|-------------|---|----------------------------------|-----------------------------------|----------------------|--|
| PRODUCT NAME: ALUMINUM BRIGHTENER 645  |             |   |                                  |                                   |                      |  |
| USE: Acid Cleaner  |             |   |                                  |                                   |                      |  |
| SUPPLIER:<br>JohnsonDiversey Canada, Inc.<br>2401 Bristol Circle<br>Oakville Ontario, L6H 6P1, Canada  |             | EMERGENCY PHONE:<br>1-800-668-7171  |                                  |                                   |                      |  |
| WHMIS CLASSIFICATION: D2B E<br>CHEMICAL FAMILY: Acid   |             | TRADE NAME / SYNONYMS:       not applicable         CHEMICAL NAME:       not applicable   |                                  |                                   |                      |  |
| II - HAZARDOUS INGREDIENTS   |             |   |                                  |                                   |                      |  |
| HAZARDOUS INGREDIENT   | % w/w       |   | CAS #                            | LD50 / LC50                       | Route / Species      |  |
| Oxalic acid<br>Linear alcohol ethoxylate / propoxylate   | 7-13<br>1-5 |   | 000144-62-7<br>068154-97-2       | LD50 375 mg/kg<br>LD50 2000 mg/kg | oral/rat<br>oral/rat |  |
| III - HANDLING AND DISPOSAL PROCEDURES   |             |   |                                  |                                   |                      |  |
| PERSONAL PROTECTIVE EQUIPMENT:         Gloves:       Natural Rubber or Neoprene       Eye:       safety goggles       Footwear:       rubber boots         Respiratory:       face mask NIOSH approved       Other:       rubber apron         SPECIAL HANDLING PROCEDURES AND EQUIPMENT:       Avoid eye and skin contact. Do not breathe mist or spray. Face mask with NIOSH approved chemical cartridge for organic vapours.         VENTILATION REQUIREMENTS:       general ventilation         INCOMPATIBILITY (Material to Avoid):       Alkaline or chlorinated materials.         SPILL PROCEDURES:       Contain the spill. Do not allow the spilled product to go to drain. Mop up or soak up with absorbent clay for disposal. Wash spill area with large volumes of water.         WASTE DISPOSAL:       Dispose according to municipal, provincial, and federal regulations.         STORAGE / SHIPPING REQUIREMENT:       Store in a cool dry area in a closed container. Avoid freezing.       UN3265 |             |   |                                  |                                   |                      |  |
| IV - PHYSICAL PROPERTIES   |             |   |                                  |                                   |                      |  |
| APPEARANCE / ODOUR:       Hazy coulourless liquid - mild odour         S.G. / BULK DENSITY(g/cc):       1.05         VAPOUR PRESSURE (mmHg):       not available         ODOUR THRESHOLD:       not available         FREEZING POINT:       approx. 0°C         SOLUBLIETY IN WATER:       Soluble   |             | pH:       (concentrate) 2.0         VAPOUR DENSITY (air=1):       not available         BOILING POINT:       approx. 100°C         PERCENT VOLATILE:       85%         EVAPOPATION PATE (water=1):       <1 |                                  |                                   |                      |  |
| SOLUBILITY IN WATER: Soluble EVAPORATION RATE (water=1): <1 V - TOXICOLOGICAL PROPERTIES   |             |   |                                  |                                   |                      |  |
| EFFECTS OF ACUTE EXPOSURE TO MATERIAL:         EYES:       Corrosive. May cause severe irritation. May cause permanent damage if not treated promptly.         SKIN:       Corrosive. May cause severe irritation. May cause temporary or permanent damage if not treated promptly.         INGESTION:       Corrosive. May cause severe irritation of the digestive tract. Ingestion of large doses can be fatal.         INHALATION:       Inhalation of spray or mist may cause respiratory irritation. May cause headache and nausea.  |             |   |                                  |                                   |                      |  |
| LD50 (calculated): 3275 mg/kg  |             |   | LC50 (calculated): not available |                                   |                      |  |

| The set of | OTHER TOXIC EFFECTS: Oxalic Acid TWA 1 mg/m3  |   |  |  |  |  |  |
|---|---|---|--|--|--|--|--|
| EXPOSURE TO MATERIAL:           VI - FIRST AID MEASURES           EVES:         Flush eyes with plenty of water for at least 15 minutes. Hold eyelids open while rinsing. Contact a physician immediately.           SKIN:         Flush affected area thoroughly with water. If irritation persists, contact a physician.           INGESTION:         Drink large volumes of water. Never give anything by mouth to an unconscious patient. Do not induce vomiting. Contact a physician immediately.           INHALATION:         Remove patient to fresh air. Get medical attention for any breathing difficulty.           VII - FIRE AND EXPLOSION DATA           FLASH POINT, *C:         not applicable           AUTO IGNITION TEMPERATURE,*C:         N/Ap           EXTINGUISHING MEDIA:         Water [X]         Dry Chemical [X]         Carbon Dioxide [X]         Foam [X]         Other []           SPECIAL FIRE FIGHTING PROCEDURES:         not required         HAZARDOUS COMBUSTION PRODUCTS:         Oxides of carbon.           EXPLOSIVE SENSITIVITY TO:         not applicable         VIII - REACTIVITY DATA         STABILITY:         Stable [X]         Unstable []           ICCONDITIONS TO AVOID:         not available         REACTIVITY (Material to Avoid) :         Alkaline or chorinated materials.           HAZARDOUS DECOMPOSITION PRODUCTS:         not available         Repart on the proper and in transition in transinable           REEACTIVITY:<   |   |   |  |  |  |  |  |
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