



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 0514

PRODUCT NAME: DUTY BRIGHT

USE: Stainless Steel/Aluminum Truck Brightener

SUPPLIER:

JohnsonDiversey Canada, Inc.
2401 Bristol Circle
Oakville Ontario, L6H 6P1, Canada

EMERGENCY PHONE:

1-800-668-7171

WHMIS CLASSIFICATION: D1A E

CHEMICAL FAMILY: Mineral Acid

TRADE NAME / SYNONYMS: not applicable

CHEMICAL NAME: not applicable

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Sulphuric acid	10-30	007664-93-9	LD50 2140 mg/kg	oral/rat
Hydrofluoric acid	5-10	007664-39-3	LC50 638 ppm/4H	inh/rat

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:

Gloves: Natural Rubber or Neoprene

Eye: safety goggles

Footwear: rubber boots

Respiratory: NIOSH Acid Mist

Other: rubber apron or suit, face shield

SPECIAL HANDLING PROCEDURES AND EQUIPMENT:

Do not breathe mist, spray or vapours. Avoid eye and skin contact. Do not allow contact with glass or ceramic materials. When spraying wear NIOSH approved respirator for acid mist.

VENTILATION REQUIREMENTS: Mechanical exhaust. Wear NIOSH approved respirator for acid mist.

INCOMPATIBILITY (Material to Avoid): Alkaline or chlorinated materials.

SPILL PROCEDURES: Contain the spill. Do not allow the spilled product to go to drain. SMALL SPILLS: Neutralize with mild alkaline solution and soak up with absorbent clay for disposal. LARGE SPILLS: Flush to holding tank and neutralize with mild alkaline material before disposal.

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. UN1786

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear, colourless liquid

S.G. / BULK DENSITY(g/cc): 1.13

pH: (concentrate): < 1.5

VAPOUR PRESSURE (mmHg): not available

VAPOUR DENSITY (air=1): not available

ODOUR THRESHOLD: not available

BOILING POINT: not available

FREEZING POINT: not available

PERCENT VOLATILE: 70%

SOLUBILITY IN WATER: Soluble

EVAPORATION RATE (water=1): not available

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. Contains hydrofluoric acid. May cause ulcerations of the skin and possible fluoride absorption if not treated promptly.

INGESTION: Corrosive. May cause severe irritation of the digestive tract. May cause permanent damage if not treated promptly.

INHALATION: Inhalation of spray or mist may cause severe respiratory irritation. See "Other Toxic Effects".	
LD50 (calculated): 2140 mg/kg orl/rat	LC50 (calculated): 638 ppm/4hr.
OTHER TOXIC EFFECTS: TLV-TWA 1 mg/m3 as Sulphuric Acid. IARC has classified occupational exposure to strong inorganic acid mists containing sulphuric acid: as being carcinogenic to humans. The route of entry is inhalation of these mists resulting in respiratory (Laryngeal) cancers. There is no evidence that the liquid is in any way a carcinogen. TLV: Sulphuric acid TWA 1mg/m3, STEL 3 mg/m3.	
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: none known	
VI - FIRST AID MEASURES	
EYES: 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. Obtain medical attention immediately. Should this be delayed, apply magnesia paste (magnesium/oxide/glycerine) or milk of magnesia. Remove and wash clothing before re-use. 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. Contact a physician.	
VII - FIRE AND EXPLOSION DATA	
FLAMMABLE: not applicable	
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: Wear self contained breathing apparatus.	
HAZARDOUS COMBUSTION PRODUCTS: Oxydes of sulphur, hydrogen fluoride.	
EXPLOSIVE SENSITIVITY TO: not applicable	
VIII - REACTIVITY DATA	
STABILITY: Stable [x] Unstable []	
CONDITIONS TO AVOID: not available	
INCOMPATIBILITY (Material to Avoid) : Alkaline or chlorinated compounds. Heat and/or toxic gases generated upon contact.	
HAZARDOUS DECOMPOSITION PRODUCTS: not applicable	
REACTIVITY: Not dangerously reactive.	
IX - MSDS PREPARATION	
SOURCES USED: RTECS, ChemInfo	PREPARED BY: JohnsonDiversey Canada. Inc. Regulatory Department Industrial Division Phone (905) 829-1200
PREPARATION DATE: April 15, 2003	
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