



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 2911

PRODUCT NAME: REFLECT**USE:** Window and Glass Cleaner**SUPPLIER:**JohnsonDiversey Canada, Inc.
2401 Bristol Circle
Oakville Ontario, L6H 6P1, Canada**EMERGENCY PHONE:****1-800-668-7171****WHMIS CLASSIFICATION:** B2 D2B**CHEMICAL FAMILY:** Solvent**TRADE NAME / SYNONYMS:** not applicable**CHEMICAL NAME:** not applicable

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Isopropanol	15-40	000067-63-0	LD50 5045 mg/kg	oral/rat
Dipropylene glycol methyl ether	5-10	034590-94-8	LD50 5660 mg/kg	oral/rat
Ethylene glycol monobutyl ether	3-7	000111-76-2	LD50 560 mg/kg	oral/rat

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:**Gloves:** Neoprene or Nitrile**Eye:** safety glasses**Footwear:** not required**Respiratory:** If mists are generated, use NIOSH approved mask**Other:** not required**SPECIAL HANDLING PROCEDURES AND EQUIPMENT:** Do not expose to heat, spark or open flame. Avoid eye contact. Do not breathe mist, spray or vapours.**VENTILATION REQUIREMENTS:** mechanical exhaust**INCOMPATIBILITY (Material to Avoid):** oxidizing materials**SPILL PROCEDURES:** Remove all sources of heat and ignition. Ensure adequate ventilation. Contain the spill. Do not allow the spilled product to go to drain. Mop up or soak up with absorbent clay for disposal. **LARGE SPILLS:** Dike and pump into suitable containers.**WASTE DISPOSAL:** Dispose according to municipal, provincial, and federal regulations.**STORAGE / SHIPPING REQUIREMENT:** Store in a cool dry area in a closed container. UN1993

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear green liquid - pine odour**S.G. / BULK DENSITY(g/cc):** 0.94**pH:** (concentrate) 8.1**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:** 100%**SOLUBILITY IN WATER:** soluble**EVAPORATION RATE (water=1):** not available

V - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:**EYES:** May cause irritation. No serious or irreversible effects expected if treated promptly.**SKIN:** May cause defatting, drying and cracking of skin.**INGESTION:** May cause irritation. May cause intoxication, dizziness and nausea.

INHALATION: Breathing spray or mist may cause respiratory irritation. Excessive exposure may cause dizziness.	
LD50 (calculated): 5810 mg/kg	LC50 (calculated): not available
OTHER TOXIC EFFECTS: TLV-TWA (Isopropanol) 400 ppm; TLV (Dipropylene Glycol Methyl Ether) TWA 100 ppm, STEL 150 ppm skin; TLV (Ethylene Glycol Monobutyl Ether) 25 ppm skin notation	
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: Repeated or prolonged exposure to Ethylene Glycol Monobutyl Ether may cause blood anemia.	
VI - FIRST AID MEASURES	
EYES:	Flush eyes with plenty of water for at least 15 minutes. Hold eyelids open while rinsing. Contact a physician.
SKIN:	Flush affected area thoroughly with water. If irritation develops, 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	
FLAMMABLE: Yes, ignited by spark or open flame.	
FLASH POINT, °C: 30°C (TCC)	AUTO IGNITION TEMPERATURE, °C: N/Av
EXTINGUISHING MEDIA: Water [] 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 available	
VIII - REACTIVITY DATA	
STABILITY: Stable [x] Unstable []	
CONDITIONS TO AVOID: not available	
INCOMPATIBILITY (Material to Avoid) : oxidizing materials	
HAZARDOUS DECOMPOSITION PRODUCTS: Heat released on contact with oxidizing materials.	
REACTIVITY: not dangerously reactive	
IX - MSDS PREPARATION	
SOURCES USED: RTECS, MSDS	PREPARED BY: JohnsonDiversey Canada. Inc. Regulatory Department Institutional Division Phone (905) 829-1200
PREPARATION DATE: April 15, 2003	
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