



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 3860

PRODUCT NAME: DE-87

USE: Solvent Degreaser

SUPPLIER:

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

EMERGENCY PHONE:

1-800-668-7171

WHMIS CLASSIFICATION: B3 D1B

CHEMICAL FAMILY: Chlorinated Hydrocarbon Mixture

TRADE NAME / SYNONYMS: not applicable

CHEMICAL NAME: not applicable

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Petroleum hydrocarbon	40-70	008052-41-3	LD50 6320 mg/kg	oral/rat
Perchloroethylene	15-40	000127-18-4	LD50 2629 mg/kg	oral/rat
Methylene chloride	3-7	000075-09-2	LD50 1600 mg/kg	oral/rat
Primary amyl acetate	1-5	000628-63-7	LD50 6500 mg/kg	oral/rat
Linear alcohol ethoxylate	5-10	068439-46-3	LD50 1378 mg/kg	oral/rat

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:

Gloves: impermeable gloves

Eye: safety glasses

Footwear: not required

Respiratory: If mists are generated, use NIOSH approved mask

Other: face shield, rubber apron

SPECIAL HANDLING PROCEDURES AND EQUIPMENT:

Avoid eye and skin contact. Do not breathe vapours. Face mask with NIOSH approved chemical cartridge for organic vapours.

VENTILATION REQUIREMENTS: mechanical exhaust

INCOMPATIBILITY (Material to Avoid): oxidizing materials

SPILL PROCEDURES: Contain the spill. Do not allow the spilled product to go to drain. Ensure adequate ventilation. Wear protective clothing. SMALL SPILLS: 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. UN2810

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear, colourless liquid

S.G. / BULK DENSITY(g/cc): 1.05

pH: not applicable

VAPOUR PRESSURE (mmHg): 48 @ 20°C

VAPOUR DENSITY (air=1): 5.0

ODOUR THRESHOLD: not available

BOILING POINT: not available

FREEZING POINT: not available

PERCENT VOLATILE: 95

SOLUBILITY IN WATER: insoluble

EVAPORATION RATE (water=1): >1

V - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:

EYES: May cause severe irritation. May cause temporary or permanent damage if not treated promptly.

SKIN: May cause irritation. May cause defatting, drying and cracking of skin.	
INGESTION: May cause severe irritation of the digestive tract.	
INHALATION: Breathing mist may cause respiratory irritation. May cause headache, dizziness, nausea, vomiting and diarrhea.	
LD50 (calculated): 3150 mg/kg	LC50 (calculated): not available
OTHER TOXIC EFFECTS: Perchloroethylene and Methylene Chloride are suspected human carcinogens.	
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: May cause liver and kidney damage.	
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: Wash with soap. Flush affected area thoroughly with water. If irritation develops, contact a physician. Apply hand cream to reduce dryness.	
INGESTION: 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, combustible if heated.	
FLASH POINT, °C: 62°C, T.O.C.	AUTO IGNITION TEMPERATURE, °C: N/Av.
EXTINGUISHING MEDIA: Water [] Dry Chemical [x] Carbon Dioxide [x] Foam [x] Other []	
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus. Use water to extinguish only if large volumes are available to flood area.	
HAZARDOUS COMBUSTION PRODUCTS: Hydrogen Chloride, Phosgene, Oxides of Carbon.	
EXPLOSIVE SENSITIVITY TO: not applicable	
VIII - REACTIVITY DATA	
STABILITY: Stable [x] Unstable []	
CONDITIONS TO AVOID: high temperature	
INCOMPATIBILITY (Material to Avoid) : oxidizing materials	
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Hydrogen Chloride, Phosgene	
REACTIVITY: not dangerously reactive	
IX - MSDS PREPARATION	
SOURCES USED: RTECS	PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department Industrial Division Phone (905) 829-1200
PREPARATION DATE: April 15, 2003	
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