



I - PRODUCT IDENTIFICATION AND USE		MSDS ID: 2149		
PRODUCT NAME: FRESH KLEEN				
USE: Germicidal Multipurpose Cleaner				
SUPPLIER: JohnsonDiversey Canada, Inc. 2401 Bristol Circle Oakville Ontario, L6H 6P1, Canada	EMERGENCY PHONE: 1-800-668-7171			
WHMIS CLASSIFICATION: E	TRADE NAME / SYNONYMS: not applicable			
CHEMICAL FAMILY: alkali	CHEMICAL NAME: not applicable			
II - HAZARDOUS INGREDIENTS				
HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Dialkyl dimethyl ammonium chloride	1-5	007173-51-5	LD50 450 mg/kg	oral/rat
Sodium metasilicate	1-5	006834-92-0	LD50 1153 mg/kg	oral/rat
III - HANDLING AND DISPOSAL PROCEDURES				
PERSONAL PROTECTIVE EQUIPMENT:				
Gloves: natural rubber or neoprene	Eye: safety glasses	Footwear: not required		
Respiratory: If mists are generated, use NIOSH approved mask	Other: not required			
SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye and skin contact				
VENTILATION REQUIREMENTS: general ventilation				
INCOMPATIBILITY (Material to Avoid): acids, anionic 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.				
WASTE DISPOSAL: Dispose according to municipal, provincial, and federal regulations.				
STORAGE / SHIPPING REQUIREMENT: Store in a cool dry area in a closed container.				
IV - PHYSICAL PROPERTIES				
APPEARANCE / ODOUR: Clear, pale yellow liquid with lemon odour				
S.G. / BULK DENSITY(g/cc): 1.02		pH: (Concentrate): 12.8		
VAPOUR PRESSURE (mmHg): not available		VAPOUR DENSITY (air=1): not available		
ODOUR THRESHOLD: not available		BOILING POINT: 102°C		
FREEZING POINT: not available		PERCENT VOLATILE: approx. 85%		
SOLUBILITY IN WATER: soluble		EVAPORATION RATE (water=1): 1.0		
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: Repeated or prolonged contact may result in irritation.				
INGESTION: May cause severe irritation of the digestive tract. May cause temporary or permanent damage if not treated promptly.				
INHALATION: Inhalation of spray or mist may cause respiratory irritation.				
LD50 (calculated): 16820 mg/kg		LC50 (calculated): not available		

OTHER TOXIC EFFECTS: Sodium metasilicate TLV 2 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. If irritation develops, contact a physician.
INGESTION: Do not induce vomiting. Drink large volumes of water. Never give anything by mouth to an unconscious patient. Contact a physician immediately.
INHALATION: Remove patient to fresh air.

VII - FIRE AND EXPLOSION DATA

FLAMMABLE: No

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: Oxides of carbon, nitrogen.

EXPLOSIVE SENSITIVITY TO: not applicable

VIII - REACTIVITY DATA

STABILITY: Stable [x] Unstable []

CONDITIONS TO AVOID: not applicable

INCOMPATIBILITY (Material to Avoid) : acids, anionic materials

HAZARDOUS DECOMPOSITION PRODUCTS: Contact with anionic materials causes inactivation.

REACTIVITY: not dangerously reactive

IX - MSDS PREPARATION

SOURCES USED: RTECS, ChemInfo

PREPARED BY: JohnsonDiversey Canada. Inc.
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