



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 57237

PRODUCT NAME: SUMA SCALE D5.2

USE: Descaler

SUPPLIER:

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

EMERGENCY PHONE:

1-800-668-7171

WHMIS CLASSIFICATION: 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
Phosphoric acid	10-30	007664-38-2	LD50 1530 mg/kg	oral/rat
Hydrochloric acid	1-5	007647-01-0	LD50 900 mg/kg	oral/rab

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:

Gloves: Neoprene or nitrile

Eye: Safety goggles

Footwear: As required

Respiratory: If mists are generated, use NIOSH approved mask

Other: Not normally required

SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye and skin contact. Do not breathe mist or spray.

VENTILATION REQUIREMENTS: General ventilation

INCOMPATIBILITY (Material to Avoid): Alkaline, chlorinated materials, aluminum and other soft metals.

SPILL PROCEDURES: Contain the spill. Do not allow the spilled product to go to drain. Neutralize with sodium bicarbonate, sodium carbonate or lime. 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.

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IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Clear caramel liquid.

S.G. / BULK DENSITY(g/cc): 1.11

pH: (concentrate): 1.0

VAPOUR PRESSURE (mmHg): not applicable

VAPOUR DENSITY (air=1): not applicable

ODOUR THRESHOLD: not applicable

BOILING POINT: approx. 100°C

FREEZING POINT: -14°C

PERCENT VOLATILE: 80%

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. May cause nausea, vomiting and diarrhea.

INHALATION: Breathing spray or mist may cause severe respiratory irritation.

LD50 (calculated): 6739 mg/kg

LC50 (calculated): not applicable

OTHER TOXIC EFFECTS: TLV (phosphoric acid): TWA 1 mg/m³; STEL 3 mg/m³; TLV: CL (hydrogen chloride): 5 ppm

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: 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.

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 phosphorus.

EXPLOSIVE SENSITIVITY TO: not applicable

VIII - REACTIVITY DATA

STABILITY: Stable [x] Unstable []

CONDITIONS TO AVOID: None known

INCOMPATIBILITY (Material to Avoid) : Alkaline, chlorinated materials, aluminum and other soft metals.

HAZARDOUS DECOMPOSITION PRODUCTS: Contact with alkali will generate heat. Contact with chlorinated materials will release chlorine gas. Contact with aluminum or other soft metals generates flammable hydrogen gas.

REACTIVITY: Not dangerously reactive

IX - MSDS PREPARATION

SOURCES USED: RTECS, Supplier MSDS

PREPARED BY: JohnsonDiversey Canada, Inc.
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