



I - PRODUCT IDENTIFICATION AND USE

MSDS ID: 1336

PRODUCT NAME: Diversoft 5S**USE:** Laundry Sour and Softener**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, Silicofluorides**TRADE NAME / SYNONYMS:** not applicable**CHEMICAL NAME:** not applicable

II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	% w/w	CAS #	LD50 / LC50	Route / Species
Hydrofluorosilicic acid	1-5	016961-83-4	LDLo 140 mg/kg	oral/rat
Soya amido hydroxyethyl ammonium	2-7	068410-69-5	LD50 840 mg/kg	oral/rat
Dipropylene glycol methyl ether	1-5	034590-94-8	LD50 560 mg/kg	oral/rat

III - HANDLING AND DISPOSAL PROCEDURES

PERSONAL PROTECTIVE EQUIPMENT:**Gloves:** impermeable gloves**Eye:** safety goggles**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. Do not wear contact lenses. If concentrations exceed TWA (2.5mg/m3 as F) NIOSH approved respirator is required.**VENTILATION REQUIREMENTS:** general ventilation**INCOMPATIBILITY (Material to Avoid):** alkaline and chlorinated materials, anionic materials, soft metals, glass.**SPILL PROCEDURES:** Wear protective clothing. Contain the spill. Do not allow the spilled product to go to drain. Neutralize with calcium hydroxide. 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. Avoid freezing.

IV - PHYSICAL PROPERTIES

APPEARANCE / ODOUR: Milky blue liquid**S.G. / BULK DENSITY(g/cc):** 1.03**pH:** 1.2 ± 0.5**VAPOUR PRESSURE (mmHg):** not applicable**VAPOUR DENSITY (air=1):** not applicable**ODOUR THRESHOLD:** not available**BOILING POINT:** approx. 100°C**FREEZING POINT:** approx. 0°C**PERCENT VOLATILE:** approx. 93%**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:** Toxic. Corrosive. May cause severe irritation of the digestive tract. May cause headache, nausea, dizziness, vomiting and diarrhea.

INHALATION: Breathing vapour may cause severe respiratory irritation.	
LD50 (calculated): 3180 mg/kg	LC50 (calculated): not available
OTHER TOXIC EFFECTS: TWA 2.5 mg/m3 as F. Highly toxic by ingestion and inhalation.	
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: Repeated or prolonged exposure may cause blood anemia, and fluorosis.	
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. Contact a physician immediately. If conscious give immediately, by mouth, large amounts of a fine suspension in water of a non-toxic calcium compound such as calcium lactate . If these are not readily available, give large amounts of water.
INHALATION:	Remove patient to fresh air. Get medical attention for any breathing difficulty.
VII - FIRE AND EXPLOSION DATA	
FLAMMABLE: No	
FLASH POINT, °C: > 95°C (Pensky-Martens)	AUTO IGNITION TEMPERATURE, °C: N/Ap
EXTINGUISHING MEDIA: Water [X] Dry Chemical [X] Carbon Dioxide [X] Foam [X] Other []	
SPECIAL FIRE FIGHTING PROCEDURES:	Use water spray to cool fire exposed containers. Use water spray to disperse fume.
HAZARDOUS COMBUSTION PRODUCTS:	Decomposition above 105°C will produce toxic and corrosive hydrogen fluoride and silicon tetrafluoride. 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) : Alkali, soft metals, chlorinated materials, anionic materials.	
HAZARDOUS DECOMPOSITION PRODUCTS:	Contact with chlorinated materials will release chlorine gas. Contact with alkali will release heat. Contact with soft metals forms flammable hydrogen gas.
REACTIVITY: not dangerously reactive	
IX - MSDS PREPARATION	
SOURCES USED: RTECS, Fluorosilicic Acid MSDS	PREPARED BY: JohnsonDiversey Canada, Inc. Regulatory Department Institutional Division Phone (905) 829-1200
PREPARATION DATE: April 15, 2003	
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