

# MATERIAL SAFETY DATA SHEET



## I - PRODUCT IDENTIFICATION AND USE

**PRODUCT NAME:** DIVERSEY LAUNDRY SOUR/SOFT

**USE:** Laundry Sour and Softener

**SUPPLIER:**

DiverseyLever Canada  
division of U L Canada Inc.  
2401 Bristol Circle  
Oakville Ontario, L6H 6P1, Canada

**EMERGENCY PHONE:**

**1-800-668-7171**

**WHMIS CLASSIFICATION:** 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 metho sulfate	2-7	068410-69-5	LD50 840 mg/kg	oral/rat
Dipropylene glycol methyl ether	1-5	034590-94-8	LD50 5660 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 required.

**VENTILATION REQUIREMENTS:** general ventilation

**INCOMPATIBILITY (Material to Avoid):** alkaline and chlorinated 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. UN1760

## 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.

<b>INHALATION:</b> Breathing vapour may cause severe respiratory irritation.	
<b>LD50 (calculated):</b> 3180 mg/kg	<b>LC50 (calculated):</b> not available
<b>OTHER TOXIC EFFECTS:</b> TWA 2.5 mg/m3 as F, highly toxic by ingestion and inhalation.	
<b>EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:</b> Repeated or prolonged exposure may cause blood anemia, and fluorosis.	
<b>VI - FIRST AID MEASURES</b>	
<b>EYES:</b>	Flush eyes with plenty of water for at least 15 minutes. Hold eyelids open while rinsing. Contact a physician immediately.
<b>SKIN:</b>	Flush affected area thoroughly with water. If irritation develops, contact a physician.
<b>INGESTION:</b>	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.
<b>INHALATION:</b>	Remove patient to fresh air. Get medical attention for any breathing difficulty.
<b>VII - FIRE AND EXPLOSION DATA</b>	
<b>FLAMMABLE:</b> No	
<b>FLASH POINT, °C:</b> > 95°C (Pensky-Martens)	<b>AUTO IGNITION TEMPERATURE, °C:</b> N/Ap
<b>EXTINGUISHING MEDIA:</b> Water <input checked="" type="checkbox"/> Dry Chemical <input checked="" type="checkbox"/> Carbon Dioxide <input checked="" type="checkbox"/> Foam <input checked="" type="checkbox"/> Other <input type="checkbox"/>	
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Use water spray to cool fire exposed containers. Use water spray to disperse vapours.	
<b>HAZARDOUS COMBUSTION PRODUCTS:</b> Decompositon above 105°C will produce toxic and corrosive hydrogen fluoride and silicon tetrafluoride. Oxides of carbon, nitrogen.	
<b>EXPLOSIVE SENSITIVITY TO:</b> not applicable	
<b>VIII - REACTIVITY DATA</b>	
<b>STABILITY:</b> Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>	
<b>CONDITIONS TO AVOID:</b> not applicable	
<b>INCOMPATIBILITY (Material to Avoid) :</b> Alkali, soft metals, and chlorinated materials.	
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> Contact with chlorinated materials will release chlorine gas. Contact with alkali will release heat. Contact with soft metals forms flammable hydrogen gas.	
<b>REACTIVITY:</b> not dangerously reactive	
<b>IX - MSDS PREPARATION</b>	
<b>SOURCES USED:</b> RTECS, Fluorosilicic Acid MSDS	<b>PREPARED BY:</b> DiverseyLever Canada Research and Development Department Institutional Division Phone (905) 829-1200
<b>PREPARATION DATE:</b> April 15, 2000	
<p>Information on this form is furnished in compliance with the Regulations Respecting Controlled Products under the Hazardous Products Act and is not to be used for any other purpose, nor is it to be reproduced or published. DiverseyLever Canada assumes no responsibility for injury to any person or property resulting from any use of the material if reasonable safety procedures are not adhered to. In addition, DiverseyLever Canada assumes no responsibility for injury to any person or property resulting from any abnormal use or theft of the material, even if reasonable safety procedures are followed. Each user assumes the risk in his use of the material and should review the data and recommendations in the specific context of the intended use.</p>	