

## MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT IDENTIFICATION AND USE

<b>CHEMICAL NAME</b>	Not applicable.	<b>TRADE NAME</b>	<b>SURFONIC® DOS-75</b>
<b>SYNONYM</b>	Diocetyl Sodium Sulfosuccinate	<b>CODE</b>	DOS75
<b>CHEMICAL FAMILY</b>	Sulphosuccinate. (Surfactant.)	<b>USE</b>	Emulsifying agent.

## SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME	% (W)	CAS NUMBER	LC50/LD50 OF MATERIAL SPECIES AND ROUTE
1) Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt	60-100	577-11-7	Oral-rat LD50 : 1900 mg/kg
2) 1,2-ethanediol	10-30	107-21-1	Oral-rat LD50 : 6000-13000 mg/kg
3) Water	10-30	7732-18-5	

## SECTION 3 - PHYSICAL DATA

<b>pH IN WATER</b>	<b>ODOUR AND APPEARANCE</b>		<b>ODOUR THRESHOLD (ppm)</b>	<b>SPECIFIC GRAVITY</b>
5.8 [Acidic.]	Characteristic. (Slight.) Colourless to light yellow (light)		Not available.	1.12 (Water = 1)
<b>VAPOUR PRESSURE</b>	<b>VAPOUR DENSITY</b>	<b>PHYSICAL STATE</b>	<b>BOILING POINT (C)</b>	<b>FREEZING POINT (C)</b>
0.08 mm of Hg (@ 20°C) based on data for: Ethylene Glycol	The highest known value is 2.1 (Air = 1) (Ethylene Glycol).	Liquid. (Clear to slightly hazy liquid.)	>100°C (230°F)	-25°C (-13°F)
<b>% VOLATILE BY VOLUME</b>	<b>EVAPORATION RATE</b>	<b>WATER/OIL DIST. COEFF.</b>	<b>WATER SOLUBILITY (20 C)</b>	
25% (v/v).	Not available.	Not available.	Easily soluble in cold water, hot water, methanol.	

## SECTION 4 - FIRE AND EXPLOSION DATA

<b>FLAMMABILITY - IF YES UNDER WHAT CONDITIONS</b>	Non-flammable. Not applicable	<b>FLASH POINT</b>	CLOSED CUP: 105°C (221°F).
		<b>EXPLOSIVE LIMITS</b>	The greatest known range is LOWER: 3.2% UPPER: 15.3% (Ethylene Glycol)
<b>EXTINGUISHING MEDIA</b>	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.		
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Not applicable.		
<b>AUTOIGNITION TEMPERATURE (C)</b>	The lowest known value is 398°C (748.4°F) (Ethylene Glycol).	<b>EXPLOSION SENSITIVITY TO IMPACT DATA</b>	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	Carbon oxides (CO, CO2). Sulfur oxides (SO2, SO3 ...).		

## SECTION 5 - REGULATORY INFORMATION

<b>WHMIS CLASSIFICATION</b>	CLASS D-2A: Material causing other toxic effects (VERY TOXIC).	<b>TDG</b>	Not controlled under TDG (Canada).
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**SECTION 6 - REACTIVITY DATA****CHEMICAL STABILITY** The product is stable.**CONDITIONS TO AVOID** Not available.**INCOMPATIBILITY (MATERIALS TO AVOID)** Not available.**HAZARDOUS DECOMPOSITION PRODUCTS** Not available.**SECTION 7 - TOXICOLOGICAL PROPERTIES****EFFECTS OF ACUTE EXPOSURE** Hazardous in case of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (irritant), of ingestion.**EFFECTS OF CHRONIC EXPOSURE** Hazardous in case of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (irritant), of ingestion. **CARCINOGENIC EFFECTS:** Not available. **MUTAGENIC EFFECTS:** Not available. **TERATOGENIC EFFECTS:** Classified POSSIBLE for human [ETHYLENE GLYCOL]. **DEVELOPMENTAL TOXICITY:** Not available. The substance is toxic to kidneys, lungs, liver. Repeated or prolonged exposure to the substance can produce target organs damage.**SENSITIZATION IRRITANCY** Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritant), of ingestion.**ROUTES OF ENTRY** Eye contact. Inhalation. Ingestion.**EXPOSURE LIMIT (TLV)** Ethylene Glycol  
TWA: 100 (mg/m<sup>3</sup>) from ACGIH  
TWA: 50 (ppm) from OSHA**SYNERGISTIC MATERIALS** Not available.**SECTION 8 - PREVENTATIVE MEASURES****PROTECTIVE CLOTHING** **GLOVES:** PVA or Neoprene  
**RESPIRATOR:** Vapor respirator when sprayed.  
**EYE:** Safety glasses  
**FOOTWEAR:** Safety shoes  
**CLOTHING:** Impervious  
**OTHER:** Eye bath and safety shower.**ENGINEERING CONTROLS (ventilation etc.)**

Ensure that eyewash stations and safety showers are near the work-station location. Good general ventilation should be sufficient to control airborne levels.

**LEAK OR SPILL PROCEDURE**

Recycle to process, if possible. Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**WASTE DISPOSAL** Waste must be disposed of in accordance with federal, provincial and local environmental control regulations.**HANDLING PROCEDURES AND EQUIPMENT** Do not breathe gas, fumes, vapor or spray. Do not ingest. Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water.**STORAGE REQUIREMENTS** Do not freeze.**SPECIAL SHIPPING INFORMATION** Do not freeze**SECTION 9 - FIRST AID MEASURES****INGESTION** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Have conscious person drink several glasses of water or milk. Get medical attention if symptoms appear.**SKIN** After contact with skin, wash immediately with plenty of water. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.**INHALATION** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.**EYES** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.**SECTION 10 - PREPARATION DATA****PREPARED BY** Health and Safety Department.**REVISION** 4**DATE** March 10, 2005**CONTACT PERSON** PHILLIP VALKOVICH**TELEPHONE** (281) 719-4825