



# MATERIAL SAFETY DATA SHEET

## I. PRODUCT AND COMPANY INFORMATION

**TRADE NAME: Embrace**  
**CHEMICAL FAMILY: Liquid Laundry Detergent**

**HCS (Division of Washing Systems, LLC)**  
5579 Spellmire Dr.  
Cincinnati, OH 45246  
513-870-4830  
**EMERGENCY CONTACT: CHEMTREC (800-424-9300)**

Date Prepared: 10/18/2007  
Version: 2

## II. HAZARDOUS INGREDIENTS

The materials listed in this data sheet are classified as **HAZARDOUS** in accordance with the definition set forth by the Occupational Safety and Health Administration in 29 CFR 1910.1200.

<u>CHEMICAL NAME</u>	<u>COMMON NAME</u>	<u>CAS #</u>	<u>Weight %</u>	<u>EXPOSURE LIMIT</u>
2-Butoxyethanol	Ethylene Glycol Ether	111-76-2	5-10	PEL: 25 ppm – Skin TLV: 25 ppm - Skin
Sodium dodecylbenzene sulfonate	Anionic Surfactant	25155-30-0	1-2	UNK

## III. PHYSICAL/CHEMICAL CHARACTERISTICS

<u>APPEARANCE &amp; ODOR</u>	<u>VAPOR DENSITY (AIR=1)</u>	<u>BOILING POINT</u>	<u>SOLUBILITY IN WATER</u>
Clear Blue Odorless Liquid	UNK	ND	Soluble
<u>SPECIFIC GRAVITY</u>	<u>EVAPORATION RATE (N-Butyl Acetate=1)</u>	<u>VAPOR PRESSURE (mmHg)</u>	<u>MELTING POINT</u>
1.00	ND	UNK	N/A

## IV. FIRE AND EXPLOSION DATA

<u>FLASHPOINT</u>	<u>FLAMMABLE LIMITS (lower limit) (upper limit)</u>	<u>AUTO IGNITION TEMP</u>
>200°F	UNK UNK	UNK

EXTINGUISHING AGENTS: Alcohol Foam, Water Fog, Carbon Dioxide, or Dry Chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and may travel along ground or be moved by ventilation and ignited at locations distant from material handling point. Never use welding torch or cutting torch on or near drum (even empty) because product can ignite explosively.

## V. REACTIVITY DATA

<u>STABILITY</u>	<u>HAZARDOUS DECOMPOSITION PRODUCTS</u>	<u>MATERIALS TO AVOID</u>	<u>HAZARDOUS POLYMERIZATION</u>
Stable	May liberate carbon monoxide and carbon dioxide.	Strong Oxidizers and Strong Alkalies	Will not occur.

<b>VI. HEALTH HAZARD DATA</b>
-------------------------------

<b>SKIN:</b>	<u>ACUTE</u>	Exposure may cause mild skin irritation. Skin absorption is possible upon prolonged contact.
	<u>CHRONIC</u>	Can be fatal by overexposure.
<b>EYES:</b>	<u>ACUTE</u>	Causes severe eye irritation.
	<u>CHRONIC</u>	None Known
<b>INHALATION:</b>	<u>ACUTE</u>	Short term inhalation toxicity is moderate. Inhalation of higher concentration may cause central nervous system depression, blood in urine, difficulty breathing, blood abnormalities, kidney and liver damage, and death.
	<u>CHRONIC</u>	Can be fatal by overexposure.
<b>INGESTION:</b>	<u>ACUTE</u>	Small amount is not likely to cause harmful effects. Large amounts may cause central nervous system depression, blood abnormalities, kidney and liver damage, and coma.
	<u>CHRONIC</u>	Can be fatal by overexposure.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Pre-existing lung disorders may be aggravated by exposure to this material.

**CARCINOGENICITY**

OSHA: NO

IARC MONOGRAPHS: NO

NTP: NO

**EMERGENCY AND FIRST AID PROCEDURES**

<b>SKIN:</b>	Immediately flush area with plenty of cool water. If irritation develops, consult a physician.
<b>EYES:</b>	Immediately flush thoroughly with cool water under low pressure for at least 15 minutes, holding lids apart and moving eye to ensure flushing of the entire surface. Call a physician.
<b>INHALATION:</b>	Remove from contaminated atmosphere. If breathing stops, administer artificial respiration. Get medical attention.
<b>INGESTION:</b>	Never give anything by mouth to an unconscious person. <b>DO NOT INDUCE VOMITING.</b> If conscious, give large quantities of water. If vomiting occurs spontaneously, keep airway clear. Call a physician immediately.

<b>VII. SPILL OR LEAK PROCEDURES</b>
--------------------------------------

Dike to contain spill and prevent entry into sewers, waterways, and low areas. Soak up pooled liquids with a suitable absorbent (e.g., clay, fullers earth, etc.). Sweep up absorbed material and dispose of in a manner approved by local, state, and federal regulations. Flush spill area with water. Contains no phosphates.

**SPECIAL PRECAUTIONS**

Store in a cool, well-ventilated area away from oxidizers, alkalies, heat, sparks, and open flame. Keep containers closed when not in use. Emptied containers can still be a hazard due to residual liquid and vapor.

<b>VIII. CONTROL MEASURES</b>
-------------------------------

<u>RESPIRATORY PROTECTION</u>	<u>EYE PROTECTION</u>	<u>PROTECTIVE GLOVES</u>	<u>OTHER PROTECTIVE EQUIPMENT</u>
None	Safety Goggles	Rubber	Impervious clothing and shoes
	<u>VENTILATION:</u> <u>Mechanical</u>	<u>Local</u>	<u>Special</u>
	Air dilution necessary to maintain exposure below TLV	None	None

**Shipping Information - Compounds, Cleaning Liquid**

N/A	= Not Applicable
PEL	= Permissible Exposure Limit
TLV	= Threshold Limit Value
TCC	= Tag Closed Cup
UNK	= Unknown at This Time

**EMBRACE**