



## Chemical Specialties Manufacturing Corporation

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# MATERIAL SAFETY DATA SHEET

(Prepared according to 29 CFR 1910.1200)

Degree of hazard: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Insignificant

Health: 1                      Flammability: 0                      Reactivity: 0

### SECTION I: PRODUCT IDENTIFICATION

**PRODUCT NAME:** Liquid Formula 90

**DATE REVIEWED:** June 3, 2009

**DOC CODE:** W.20294

**CHEMICAL FAMILY:** Mixture

**EMERGENCY 24-HOUR TELEPHONE #** 1-800-424-9300 (CHEMTREC)

N/A = Not applicable or Not available.

N/D = Not determined.

### SECTION II: COMPOSITION/ INFORMATION ON INGREDIENTS

This product has not been tested as a whole for health effects on animals or humans. According to the OSHA Hazardous Communications Standard (29 CFR 1910.1200) any hazardous ingredients that comprise >1.0% of the material and any carcinogenic ingredients that comprise >0.1% must be listed on the MSDS. When individually tested at 100% ingredients in the make-up of this product posed the following health hazards. This product is further diluted at use.

#### SECTION II a: HAZARDOUS INGREDIENTS >1.0%

Chemical Name	CAS #	OSHA PEL	ACGIH TLV	Percentage
Chelating Agent	Mixture	N/A	N/A	5-10%
Disodium dodecyldiphenyl ether disulfonate	28519-02-0	N/A	N/A	25-30%
Alcohols (C12-15) Ethoxylate	68131-39-5	N/A	N/A	15-20%
Ethoxylated Alcohol	160875-66-1	N/A	N/A	1-5%

#### SECTION II b: CARCINOGENIC INGREDIENTS AT >0.1%

None.

### SECTION III: HAZARDS IDENTIFICATION

**EYES:** May cause eye irritation.  
**SKIN:** May cause skin irritation.  
**INHALATION:** None expected if used as directed.  
**INGESTION:** May cause abdominal discomfort, nausea and diarrhea.

### SECTION IV: FIRST AID PROCEDURES

**EYES:** Remove contacts. Flush with water for at least 15 minutes. If irritation persists consult physician.  
**INGESTION:** Drink 1 to 2 glasses of water. If discomfort persists, consult physician.  
**INHALED:** Remove to fresh air. If symptoms persist or are severe seek prompt medical assistance.  
**SKIN:** Remove contaminated clothing. Thoroughly wash exposed area with soap and water.  
**PHYSICIAN:** Treatment based on judgment of attending physician.

### SECTION V: FIRE AND EXPLOSION DATA

**FLASH POINT:** >200°F (>93.3°C)

**AUTO-IGNITION TEMPERATURE:** N/D

**EXPLOSIVE LIMITS - UEL:** N/D **LEL:** N/D

**EXTINGUISHING MEDIA:** Any standard extinguishing media (alcohol foam, water spray or fog, CO<sub>2</sub> dry chemical, etc.).

**SPECIAL FIRE FIGHTING PROCEDURES:** Use NIOSH/MSHA approved self-contained positive pressure breathing apparatus and protective clothing where this material is involved in a fire.

**UNUSUAL FIRE AND EXPLOSION HAZARD:** None known.

### SECTION VI: ACCIDENTAL RELEASE MEASURES

Soak up spilled material with absorbent material. Scoop or sweep and dispose according to local, state and federal regulations.

**SECTION VII: HANDLING AND STORAGE**

Avoid heat, flame, and sparks. Keep container closed to avoid contamination.

**SECTION VIII: PROTECTION MEASURES**

VENTILATION: Local exhaust or dilution ventilation is necessary in poorly ventilated areas.

GLOVES: Chemical resistant gloves.

RESPIRATORY: When mists or aerosols are anticipated, wear NIOSH/MSHA approved respirator equipped with organic vapor cartridges with high-efficiency particulate filters.

EYE: Safety glasses. Wear splash goggles when mists or aerosols are anticipated.

OTHER PROTECTIVE EQUIPMENT: Body-covering clothing should be worn.

**SECTION IX: PHYSICAL/CHEMICAL DATA**

APPEARANCE AND ODOR: Thick clear blue liquid with roto brite odor.

% VOLATILE BY WT.: <5%

SPECIFIC GRAVITY: 1.080 g/cc

WATER SOLUBILITY, % BY WT: N/D

pH: 13.0 – 14.0

WT/GAL: 9.00 lbs/gal

**SECTION X: REACTIVITY DATA**

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY: Strong oxidizers and strong acids.

HAZARDOUS DECOMPOSITION/COMBUSTION PRODUCTS: Oxides of carbon, sulfur and possibly other unidentified organic compounds.

**SECTION XI: TOXICOLOGICAL INFORMATION OF INGREDIENTS**

Chelating Agent: LD50 oral rat: 3030 mg/kg. LD50 dermal rabbit: >5000 mg/kg.

Alcohols (C12-15) Ethoxylate: LD50 oral rat: >500-5000 mg/kg.

Ethoxylated Alcohol: >500 mg/kg.

**SECTION XII: ECOLOGICAL INFORMATION**

Product may not be completely biodegradable.

Chelating Agent: LC50 fish: >100 mg/L. LC50 fathead minnow: >100 mg/L.

Ethoxylated Alcohol: EC50 daphnia magna (48hr): 10-100 mg/L. EC50 green algae (72hr): 10-100 mg/L.

**SECTION XIII: SPILL, LEAK AND DISPOSAL PROCEDURES**

WASTE DISPOSAL: In accordance with Federal, state and local regulations.

NEUTRALIZING CHEMICALS: Water.

**SECTION XIV: TRANSPORT INFORMATION PER 49 CFR 172.101**

All ingredients used in this formula are non-regulated for non-bulk.

**SECTION XV: REGULATORY INFORMATION**

<b>Domestic</b>	<b>International:</b>
TSCA: All ingredients are listed on the TSCA chemical substance inventory. SARA Section 313 Ingredients: None. California Prop 65 Ingredients: None.	European labeling requirements: Symbol: Xi: Irritant. R-Sentences: R36, R38 S-Sentences: S2, S24, S25, S37, S39 Canadian: WHMIS Hazard Class: D2B.

**SECTION XVI: OTHER INFORMATION**

One should always use chemicals with awareness of potential hazards, known and unknown, and their effect on the human system. We urge users to minimize employee exposure to all chemicals, including this product and to keep the level of exposure commensurate with good industrial hygiene practices.

**DISCLAIMER OF LIABILITY**

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material and the results to be obtained from the use thereof.