

# MATERIAL SAFETY DATA SHEET

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Date Prepared : 06/09/00  
Supersedes : n/ap  
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TECHNICAL SERVICES CHEMIST

HMIS RATING	
HEALTH .....	2
FLAMMABILITY ...	2
REACTIVITY .....	0
PROTECTION .....	X
4 = SEVERE	
3 = SERIOUS	
2 = MODERATE	
1 = SLIGHT	
0 = MINIMAL	
X = SEE SECTION 6	

PRODUCT IDENTITY..... DYNASOLVE 7F  
PRODUCT CODE NUMBER ..... DF0009AS  
PRODUCT USE .....  
DOT HAZARD CLASSIFICATION : CORROSIVE LIQUIDS, BASIC, ORGANIC, NOS (POTASSIUM HYDROXIDE), 8, UN3267, III

## SECTION 1 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NUMBER	Wgt. %	PEL-OSHA	EXPOSURE LIMITS TLV-ACGIH	OTHER	CARCINOGEN	NOTE
DIMETHYL SULFOXIDE	67-68-5	60-100	N/AV	N/AV	N/AV	NO	
POTASSIUM HYDROXIDE	1310-58-3	1-5	2 mg/m3	2 mg/m3	N/AV	NO	
Trade secret per CFR 1910.1200	withheld	15-40	N/AV	N/AV		NO	

All components of this product are listed on the TSCA registry.

## SECTION 2 - PHYSICAL AND CHEMICAL CHARACTERISTICS

PHYSICAL STATE ..... LIQUID	VAPOR PRESSURE (mmHg).... N/AV	pH ..... N/AP
ODOR AND APPEARANCE : CLEAR LIQUID W/CHEMICAL ODOR	VAPOR DENSITY (Air=1).... N/AV	BOILING POINT (F).... N/AV
SPECIFIC GRAVITY (water=1): 1.04	ODOR THRESHOLD ..... N/AV	FREEZING POINT (F).... N/AV
SOLUBILITY IN WATER ..... MISCIBLE	EVAP. RATE (=1): N/AV	VOC(lbs/gal)..... 9.10

## SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT AND METHOD.... 154°F (68°C) (CC) FLAMMABLE LIMITS: LEL = N/AV UEL = N/AV  
EXTINGUISHING MEDIA: Alcohol foam, carbon dioxide, dry chemical or water spray.  
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited heat, electrical sparks, pilot lights, other flames and ignition sources at locations distant from material handling point.

## SECTION 4 - REACTIVITY DATA

IS THE PRODUCT STABLE? YES CONDITIONS TO AVOID FOR STABILITY: NONE  
INCOMPATIBILITY (Materials to Avoid): Oxidizing materials.  
HAZARDOUS DECOMPOSITION PRODUCTS....: Oxides of carbon and traces of hydrocarbons.  
WILL HAZARDOUS POLYMERIZATION OCCUR? NO CONDITIONS TO AVOID FOR POLYMERIZATION: N/AP

KEEP OUT OF REACH OF CHILDREN

N/AP - Not Applicable

N/AV - Not Available

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## SECTION 5 - HEALTH HAZARD DATA

ROUTE OF ENTRY: a) Eye contact b) Skin contact c) Inhalation

EFFECTS OF ACUTE EXPOSURE: a) Eyes - Can cause severe irritation, or eye damage with redness, tearing and blurred vision. b) Skin - Prolonged or repeated contact can cause moderate to severe irritation or chemical burns. c) Inhalation - Excessive inhalation of vapors can cause nasal and respiratory irritation, central nervous system effects including dizziness, weakness, fatigue, nausea and headache. d) Ingestion - Can cause gastrointestinal irritation, burns to the mouth throat, and esophagus, nausea, vomiting and diarrhea.

EFFECTS OF CHRONIC EXPOSURE: Overexposure to this material (or its components) may result in allergic sensitization. Dimethyl Sulfoxide may accelerate the absorption of other toxic materials through the skin.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to the product.

### EMERGENCY AND FIRST AID PROCEDURES:

- a) SKIN - Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Wash before re-use.
- b) EYES - Flush with large amounts of water, lifting upper and lower lids occasionally, get medical attention.
- c) INHALATION - If affected remove individual to fresh air. If breathing is difficult give oxygen. If breathing has stopped, administer artificial respiration. Keep person warm and quiet and get medical attention.
- d) INGESTION - Do not induce vomiting. Get medical attention immediately.

## SECTION 6 - CONTROL AND PROTECTIVE MEASURES

### PERSONAL PROTECTIVE EQUIPMENT:

GLOVES....: Butyl  
FOOTWEAR...: Impervious

RESPIRATOR...: NIOSH approved  
CLOTHING....: Impervious apron

EYE....: Safety glasses  
OTHER...: Splash goggles, if needed

VENTILATION: Below TLV(s) MECHANICAL (General): Explosion proof

/HYGIENIC PRACTICES: Eye wash and safety shower should be easily accessible. Provide adequate ventilation. Wash thoroughly after handling and before eating, drinking or smoking. Remove contaminated clothing promptly and wash it before reuse.

## SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Absorb on suitable absorbant and collect for disposal.

WASTE DISPOSAL METHOD: Contaminated absorbant may be disposed of according to local, state and federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat, sparks and open flames. Protect from physical damage and keep tightly closed. Do not store under freezing conditions or above 120 F.

MAINTENANCE PRECAUTIONS: Never use welding or cutting torch on or near containers. Ground all metal containers while cross-pouring.

OTHER PRECAUTIONS: Empty containers retain product residue and vapors. Always obey hazard warnings.

## SECTION 8 - REGULATORY INFORMATION

This product contains the following chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372:

NONE

KEEP OUT OF REACH OF CHILDREN

N/AP - Not Applicable

N/AV - Not Available