

# MATERIAL SAFETY DATA SHEET

HMIS Ratings	
Health	2
Flammability	2
Reactivity	0
Protection	

## 1. Product and Company Identification

Material name	DYNASOLVE M-35
Version #	02
Revision date	02-24-2009
CAS #	Mixture
Product code	J038
Product use	Resin Flushing Solvent
Manufacturer information	Dynaloy, LLC 6445 Olivia Lane Indianapolis, IN 46226 USA (317) 788-5694 1-800-424-9300 (CHEMTREC) FOR INTERNATIONAL CALLS 703-527-3887

## 2. Hazards Identification

### Potential health effects

Eyes	This product may cause irritation to the eyes.
Skin	Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.
Inhalation	This product may cause irritation to the respiratory system.
Ingestion	Ingestion of this product may cause nausea, vomiting and diarrhea.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
ETHYLENE GLYCOL DIACETATE	111-55-7	40 - 60
1,3-DIOXOLAN-2-ONE, METHYL-	108-32-7	20 - 60

## 4. First Aid Measures

### First aid procedures

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
Skin contact	For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.
Inhalation	If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration is greater than the TLV or health effects are noticed), immediately remove the affected person(s) to fresh air. Call a physician if symptoms develop or persist.
Ingestion	If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel.

## 5. Fire Fighting Measures

### Extinguishing media

Suitable extinguishing media	Carbon dioxide, dry chemical or water.
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### Protection of firefighters

Protective equipment and precautions for firefighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
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### Hazardous combustion products

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

## 6. Accidental Release Measures

<b>Methods for containment</b>	Dike the spilled material, where this is possible. Stop the flow of material, if this is without risk. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.
<b>Methods for cleaning up</b>	Absorb spill with inert material. Shovel material into appropriate container for disposal.

## 7. Handling and Storage

<b>Handling</b>	Avoid prolonged or repeated skin contact with this material. As with all chemicals, good industrial hygiene practices should be followed when handling this material.
<b>Storage</b>	Room temperature - normal conditions. Keep the container tightly closed.

## 8. Exposure Controls / Personal Protection

<b>Engineering controls</b>	Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.
<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	Wear safety glasses; chemical goggles (if splashing is possible).
<b>Skin protection</b>	Use impervious gloves. Normal work clothing (long sleeved shirts and long pants) is recommended.
<b>Respiratory protection</b>	None required where adequate ventilation conditions exist. If airborne concentrations are above the applicable exposure limits, use NIOSH approved organic vapor respiratory protection.

## 9. Physical & Chemical Properties

<b>Physical state</b>	Liquid.
<b>pH</b>	Not Applicable
<b>Boiling point</b>	374 °F (190 °C)
<b>Flash point</b>	199.4 °F (93 °C) Tag Closed Cup
<b>Evaporation rate</b>	0.02 BuAc
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Vapor pressure</b>	0.09 hPa estimated
<b>Solubility (H2O)</b>	>= 10 g/l
<b>Auto-ignition temperature</b>	899.6 °F (482 °C) estimated
<b>Specific gravity</b>	1.2001 estimated
<b>Density</b>	1.2 g/cm3

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable under normal conditions.
<b>Incompatible materials</b>	None known.
<b>Hazardous decomposition products</b>	Hazardous combustion products may include carbon monoxide, carbon dioxide and hydrocarbon fragments.
<b>Possibility of hazardous reactions</b>	Will not occur.

## 11. Toxicological Information

### Toxicological data

<b>Product</b>	<b>Test Results</b>
DYNASOLVE M-35 (Mixture)	Acute Oral LD50 Rat: 11433 mg/kg estimated
<b>Components</b>	<b>Test Results</b>
ETHYLENE GLYCOL DIACETATE (111-55-7)	Acute Oral LD50 Rat: 6860 mg/kg

## 12. Ecological Information

### Ecotoxicological data

Product	Test Results
DYNASOLVE M-35 (Mixture)	LC50 Fish: 140 mg/l 96 Hours estimated
Components	Test Results
ETHYLENE GLYCOL DIACETATE (111-55-7)	LC50 Inland silverside (Menidia beryllina): 78 mg/l 96 Hours
<b>Ecotoxicity</b>	No data available for this product.
<b>Persistence and degradability</b>	Not available.

## 13. Disposal Considerations

<b>Disposal instructions</b>	Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
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## 14. Transport Information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

## 15. Regulatory Information

<b>US federal regulations</b>	All components are on the U.S. EPA TSCA Inventory List.
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### CERCLA (Superfund) reportable quantity

None

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

<b>Hazard categories</b>	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
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<b>Section 302 extremely hazardous substance</b>	No
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<b>Section 311 hazardous chemical</b>	Yes
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<b>State regulations</b>	Other state regulations may apply. Check individual state requirements.
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### US - Pennsylvania RTK - Hazardous Substances: Listed substance

ETHYLENE GLYCOL DIACETATE (111-55-7)	Listed.
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## 16. Other Information

<b>HMIS® ratings</b>	Health: 2 Flammability: 2 Physical hazard: 0
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<b>NFPA ratings</b>	Health: 2 Flammability: 2 Instability: 0
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<b>Disclaimer</b>	NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, MSDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.
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