

# MATERIAL SAFETY DATA SHEET

<b>HMIS Ratings</b>	
<b>Health</b>	2
<b>Flammability</b>	2
<b>Reactivity</b>	0
<b>Protection</b>	

## 1. Product and Company Identification

<b>Material name</b>	Dynasolve 185
<b>Version #</b>	01
<b>Revision date</b>	12-23-2008
<b>CAS #</b>	Mixture
<b>Product code</b>	J008
<b>Product use</b>	Polymer remover
<b>Manufacturer information</b>	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

<b>Eyes</b>	This product may be severely irritating to the eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
<b>Skin</b>	Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.
<b>Inhalation</b>	This product may cause irritation to the respiratory system. Excessive inhalation of this product may cause headache, dizziness, blurred vision, nausea and vomiting.
<b>Ingestion</b>	Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
2-PYRROLIDINONE, 1-METHYL-	872-50-4	80 - 90
ETHANOL, 2-(2-PHENOXYETHOXY)-	104-68-7	5 - 15
POLY(OXY-1,2-ETHANEDIYL), ALPHA. -(4-NONYLPHENYL)-.OMEGA. -HY	127087-87-0	0.1 - 1

## 4. First Aid Measures

### First aid procedures

<b>Eye contact</b>	Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention at once.
<b>Skin contact</b>	Immediately take off all contaminated clothing. For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.
<b>Inhalation</b>	Move person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Seek medical attention.
<b>Ingestion</b>	If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

## 5. Fire Fighting Measures

### Extinguishing media

<b>Suitable extinguishing media</b>	Alcohol foam. Carbon dioxide, dry chemical or water.
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### Protection of firefighters

<b>Protective equipment and precautions for firefighters</b>	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

Decomposition of this product may emit oxides of nitrogen and carbon monoxide.

## 6. Accidental Release Measures

<b>Methods for containment</b>	Eliminate sources of ignition. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.
<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.
<b>Storage</b>	Keep the container tightly closed and in a cool, well-ventilated place. Do not store, incinerate, or heat this material above 120 degrees Fahrenheit (48°C). Do not freeze.

## 8. Exposure Controls / Personal Protection

<b>Engineering controls</b>	Explosion proof exhaust ventilation should be used if product is heated near or above its flash point.
<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. Use of impervious apron and boots are recommended where splashing of the chemical is likely.
<b>Respiratory protection</b>	If ventilation is not sufficient to effectively prevent buildup of vapor/mist/fume/dust, appropriate NIOSH/MSHA respiratory protection must be provided.

## 9. Physical & Chemical Properties

<b>Physical state</b>	Liquid.
<b>pH</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	>= 696.2 °F (>= 369 °C)
<b>Flash point</b>	199.4 °F (93 °C) lowest flashing component
<b>Evaporation rate</b>	0.06 BuAc
<b>Flammability (Train fire)</b>	Not available.
<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>	0.29 hPa
<b>Vapor density</b>	3.4
<b>Relative density</b>	Not available.
<b>Solubility (H2O)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Specific gravity</b>	1.04
<b>Density</b>	1.04 g/cm <sup>3</sup>

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable under normal conditions.
<b>Incompatible materials</b>	Strong oxidizing agents (peroxides, chlorine, strong acids).
<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

#### Product

Dynasolve 185 (Mixture)

#### Test Results

Acute Dermal LD50 Rabbit: 8889 mg/kg estimated  
Acute Oral LD50 Mouse: 6874 mg/kg estimated  
Acute Oral LD50 Rat: 4336 mg/kg estimated  
Acute Other LD50 Mouse: 1130 mg/kg estimated  
Acute Other LD50 Rat: 1304 mg/kg estimated

#### Components

2-PYRROLIDINONE, 1-METHYL- (872-50-4)

#### Test Results

Acute Dermal LD50 Rabbit: 8000 mg/kg  
Acute Oral LD50 Mouse: 5130 mg/kg  
Acute Oral LD50 Rat: 3914 mg/kg  
Acute Other LD50 Mouse: 54.5 mg/kg  
Acute Other LD50 Rat: 80.5 mg/kg

## 12. Ecological Information

### Ecotoxicological data

#### Product

Dynasolve 185 (Mixture)

#### Test Results

LC50 Fish: 3828 mg/l 96 Hours estimated

**Ecotoxicity** No data available for this product.

**Persistence and degradability** Not available.

## 13. Disposal Considerations

**Disposal instructions** Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

## 14. Transport Information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

## 15. Regulatory Information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

2-PYRROLIDINONE, 1-METHYL- (872-50-4) 1.0 %

### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

2-PYRROLIDINONE, 1-METHYL- (872-50-4) Listed.

### CERCLA (Superfund) reportable quantity

None

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

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

## State regulations

### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

2-PYRROLIDINONE, 1-METHYL- (872-50-4) Listed.

### US - California Proposition 65 - CRT: Listed date/Developmental toxin

2-PYRROLIDINONE, 1-METHYL- (872-50-4) Listed: June 15, 2001 Developmental toxin.

### US - New Jersey Community RTK (EHS Survey): Reportable threshold

2-PYRROLIDINONE, 1-METHYL- (872-50-4) 500 LBS

### US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-PYRROLIDINONE, 1-METHYL- (872-50-4) Listed.

## 16. Other Information

### HMIS® ratings

Health: 2  
Flammability: 2  
Physical hazard: 0

### NFPA ratings

Health: 2  
Flammability: 2  
Instability: 0

### Disclaimer

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.