

# MATERIAL SAFETY DATA SHEET

HMIS Ratings  
Health 2  
Flammability 1  
Reactivity 0  
Protection

## 1. Product and Company Identification

**Material name** Dynasolve CU-6  
**Version #** 01  
**Revision date** 01-12-2009  
**CAS #** Mixture  
**Product code** J001  
**Product use** Polyurethane Remover  
**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. High concentration of product vapors can cause severe irritation of eyes.

**Skin** Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

**Inhalation** Exposure to oil mist/fume/vapor may cause respiratory tract irritation. Excessive inhalation of this product may cause headache, dizziness, blurred vision, nausea and vomiting.

**Ingestion** Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
2-PYRROLIDINONE, 1-METHYL-	872-50-4	40 - 60
2(3H)-FURANONE, DIHYDRO	96-48-0	10 - 30
ETHYLENE GLYCOL PHENYL ETHER	122-99-6	10 - 20
POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-(NONYLPHENYL)- .OMEGA.-HYDR	68412-54-4	2.5 - 10
PROPANOIC ACID, 3-ETHOXY-, ETHYL ESTER	763-69-9	2.5 - 10
PROPANOL, [2-(2-METHOXYMETHYLETHOXY)METHYLETHOXY]-	25498-49-1	2.5 - 10

## 4. First Aid Measures

### First aid procedures

**Eye contact** Flush immediately with water for at least 15 minutes. Do not rub eyes. If irritation persists get medical attention.

**Skin contact** For skin contact flush with large amounts of water while removing contaminated clothing. Wash contaminated clothing before reuse. 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. If symptoms persist, get medical attention.

**Ingestion** DO NOT induce vomiting unless directed to do so by medical personnel. Call a physician immediately.

## 5. Fire Fighting Measures

### Extinguishing media

**Suitable extinguishing media** Dry chemical (preferred), alcohol foam, water. Use water to cool fire-exposed containers and to protect personnel.

### Protection of firefighters

**Protective equipment and precautions for firefighters** Firefighters should wear full protective clothing including self contained breathing apparatus.

### Hazardous combustion products

Irritating and/or toxic gases may be emitted upon the products decomposition.

## 6. Accidental Release Measures

### Personal precautions

Recommendations for personal protective equipment should be followed

### Methods for containment

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

### Methods for cleaning up

Absorb spill with inert material. Shovel material into appropriate container for disposal.

## 7. Handling and Storage

### Handling

As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid getting this material into contact with your skin and eyes.

### Storage

Keep the container tightly closed and in a cool, well-ventilated place.

## 8. Exposure Controls / Personal Protection

### Engineering controls

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces. Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

### Personal protective equipment

#### Eye / face protection

Wear safety glasses; chemical goggles (if splashing is possible).

#### Skin protection

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.

#### Respiratory protection

Respiratory protection; not normally required for ambient air concentrations not exceeding the Occupational Exposure Limit. If ventilation is not sufficient to effectively prevent buildup of vapors, appropriate NIOSH/MSHA respiratory protection must be provided

## 9. Physical & Chemical Properties

### Physical state

Liquid.

### pH

N/AP

### Boiling point

410 °F (210 °C) estimated

### Flash point

210.2 °F (99 °C) Lowest flashing component

### Evaporation rate

Not available.

### Flammability limits in air, lower, % by volume

Not available.

### Flammability limits in air, upper, % by volume

Not available.

### Vapor pressure

0.45 hPa estimated

### Vapor density

Not available.

### Relative density

Not available.

### Solubility (H2O)

miscible

### Auto-ignition temperature

654.8 °F (346 °C) estimated

### Decomposition temperature

Not available.

### Specific gravity

1.0648 estimated

### Density

1.0647 g/cm<sup>3</sup> estimated

## 10. Chemical Stability & Reactivity Information

### Chemical stability

Stable under normal conditions.

<b>Incompatible materials</b>	Strong oxidizing agents (peroxides, chlorine, strong acids).
<b>Hazardous decomposition products</b>	None known. Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.
<b>Possibility of hazardous reactions</b>	Will not occur.

## 11. Toxicological Information

### Toxicological data

Product	Test Results
Dynasolve CU-6 (Mixture)	Acute Dermal LD50 Rabbit: 14545 mg/kg estimated Acute Oral LD50 Mouse: 4335 mg/kg estimated Acute Oral LD50 Rat: 3478 mg/kg estimated Acute Other LD50 Mouse: 1302 mg/kg estimated Acute Other LD50 Rat: 2133 mg/kg estimated
Components	Test Results
ETHYLENE GLYCOL PHENYL ETHER (122-99-6)	Acute Oral LD50 Mouse: 16500 mg/kg Acute Oral LD50 Rat: 1260 mg/kg
2-PYRROLIDINONE, 1-METHYL- (872-50-4)	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
2(3H)-FURANONE, DIHYDRO (96-48-0)	Acute Oral LD50 Mouse: 1260 mg/kg Acute Oral LD50 Rat: 1540 mg/kg Acute Other LD50 Mouse: 880 mg/kg

### Carcinogenicity

#### IARC Monographs on Occupational Exposures to Chemical Agents: Overall evaluation

2(3H)-FURANONE, DIHYDRO (96-48-0)                      3 Classification not possible from current data.

## 12. Ecological Information

### Ecotoxicological data

Product	Test Results
Dynasolve CU-6 (Mixture)	LC50 Fish: 1914 mg/l 96 Hours estimated
Components	Test Results
ETHYLENE GLYCOL PHENYL ETHER (122-99-6)	LC50 Fathead minnow (Pimephales promelas): 337 - 352 mg/l 96 Hours

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

**Environmental effects**                      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 - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**State regulations** Other state regulations may apply. Check individual state requirements.

**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: 1  
Physical hazard: 0

**NFPA ratings** Health: 2  
Flammability: 1  
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.