

# MATERIAL SAFETY DATA SHEET

HMIS Ratings  
Health 3\*  
Flammability 0  
Reactivity 0  
Protection

## 1. Product and Company Identification

**Material name** Dynasolve 165  
**Version #** 04  
**Revision date** 01-19-2011  
**CAS #** Mixture  
**Product code** J006  
**Product use** Polymer Stripper  
**Manufacturer information** Dynaloy, LLC  
6445 Olivia Lane  
Indianapolis, IN 46226 USA  
(317) 788-5694  
1-800-424-9300 (CHEMTREC)  
703-527-3887 ccn 7178  
For International Calls

## 2. Hazards Identification

### Potential health effects

**Eyes** This product is severely irritating to the eyes and may cause eye burns. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

**Skin** This product is severely irritating to the skin and may cause burns.

**Inhalation** Excessive inhalation of this material causes headache, dizziness, nausea and incoordination. Repeated inhalation may be harmful; lung irritation and serious central nervous system disorders may result.

**Ingestion** Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
METHYLENE CHLORIDE	75-09-2	80 - 90
FORMIC ACID 90%	64-18-6	10 - 20
ACETIC ACID, GLACIAL	64-19-7	2.5 - 10
BENZENE SULFONIC ACID, DODECYL-	27176-87-0	1 - 2.5

## 4. First Aid Measures

### First aid procedures

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention or advice.

**Skin contact** For skin contact flush with large amounts of water while removing contaminated clothing. If irritation persists, get medical attention.

**Inhalation** Move person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Seek medical attention.

**Ingestion** If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Do not induce vomiting unless directed to do so by medical personnel.

**Notes to physician** This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

## 5. Fire Fighting Measures

### Extinguishing media

**Suitable extinguishing media** Dry chemical, foam, carbon dioxide, water fog.

## 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.

### Hazardous combustion products

Irritating and toxic gases or fumes may be released during a fire.

## 6. Accidental Release Measures

### Methods for containment

Eliminate sources of ignition. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

### Methods for cleaning up

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

## 7. Handling and Storage

### Handling

Avoid prolonged or repeated skin contact with this material. Wash thoroughly after handling.

### Storage

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).

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### ACGIH

##### Components

##### Type

##### Value

ACETIC ACID, GLACIAL (64-19-7)

STEL

15 ppm

TWA

10 ppm

FORMIC ACID 90% (64-18-6)

STEL

10 ppm

TWA

5 ppm

METHYLENE CHLORIDE (75-09-2)

TWA

50 ppm

#### U.S. - OSHA

##### Components

##### Type

##### Value

ACETIC ACID, GLACIAL (64-19-7)

PEL

25 mg/m<sup>3</sup>

10 ppm

TWA

25 mg/m<sup>3</sup>

10 ppm

FORMIC ACID 90% (64-18-6)

PEL

9 mg/m<sup>3</sup>

5 ppm

TWA

5 ppm

9 mg/m<sup>3</sup>

METHYLENE CHLORIDE (75-09-2)

STEL

125 ppm

TWA

25 ppm

### Engineering controls

Explosion proof exhaust ventilation should be used.

### Personal protective equipment

#### Eye / face protection

Wear chemical goggles.

#### Skin protection

Use impervious gloves. Use of impervious apron and boots are recommended.

#### Respiratory protection

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

### Physical state

Liquid.

### pH

N/AP

### Boiling point

123.2 °F (50.69 °C) estimated

### Flash point

N/AP

### Evaporation rate

0.7 BuAc

### Vapor pressure

355 hPa

### Solubility (H<sub>2</sub>O)

Not available.

### Specific gravity

1.2901 estimated

Density 1.29 g/cm<sup>3</sup>

## 10. Chemical Stability & Reactivity Information

**Chemical stability** Stable under normal conditions.  
**Incompatible materials** Strong acids, alkalis and oxidizing agents.  
**Hazardous decomposition products** Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.  
**Possibility of hazardous reactions** Will not occur.

## 11. Toxicological Information

### Toxicological data

#### Product

Dynasolve 165 (Mixture)

#### Test Results

Acute Inhalation LC50 Guinea pig: 6556 mg/l estimated  
Acute Inhalation LC50 Mouse: 4159 mg/l estimated  
Acute Inhalation LC50 Rat: 832 mg/l estimated  
Acute Inhalation LD50 Mouse: 18735 mg/l estimated  
Acute Oral LD50 Mouse: 10549 mg/kg estimated  
Acute Oral LD50 Rat: 2212 mg/kg estimated  
Acute Other LD50 Mouse: 1392 mg/kg estimated

#### Components

BENZENE SULFONIC ACID, DODECYL- (27176-87-0)

FORMIC ACID 90% (64-18-6)

ACETIC ACID, GLACIAL (64-19-7)

METHYLENE CHLORIDE (75-09-2)

#### Test Results

Acute Oral LD50 Rat: 890 mg/kg  
Acute Oral LD50 Mouse: 1076 mg/kg  
Acute Oral LD50 Rat: 1830 mg/kg  
Acute Other LD50 Mouse: 142 mg/kg  
Acute Inhalation LC50 Guinea pig: 5000 mg/l 1 Hours  
Acute Inhalation LC50 Mouse: 5000 mg/l 1 Hours  
Acute Oral LD50 Rat: 3530 mg/kg  
Acute Inhalation LC50 Guinea pig: 40.2 mg/l 6 Hours  
Acute Inhalation LC50 Mouse: 49.1 mg/l 6 Hours  
Acute Inhalation LC50 Rat: 52 mg/l 6 Hours  
Acute Inhalation LD50 Mouse: 16000 mg/l 7 Hours  
Acute Oral LD50 Rat: 1600 mg/kg

### Carcinogenicity

#### IARC Monographs: Overall evaluation

METHYLENE CHLORIDE (75-09-2) 2B Possibly carcinogenic to humans.

#### US ACGIH Threshold Limit Values: A3 carcinogen

METHYLENE CHLORIDE (75-09-2) A3 Confirmed animal carcinogen with unknown relevance to humans.

#### US NTP Report on Carcinogens: Anticipated carcinogen

METHYLENE CHLORIDE (75-09-2) Anticipated carcinogen.

#### US OSHA Specifically Regulated Substances: Potential cancer hazard

METHYLENE CHLORIDE (75-09-2) Potential cancer hazard.

## 12. Ecological Information

### Ecotoxicological data

#### Product

Dynasolve 165 (Mixture)

#### Test Results

EC50 Daphnia: 737 mg/l 48 Hours estimated  
LC50 Fish: 350 mg/l 96 Hours estimated

#### Components

FORMIC ACID 90% (64-18-6)

ACETIC ACID, GLACIAL (64-19-7)

#### Test Results

EC50 Water flea (Daphnia magna): 138 - 165.6 mg/l 48 Hours  
EC50 Water flea (Daphnia magna): 65 mg/l 48 Hours  
LC50 Bluegill (Lepomis macrochirus): 75 mg/l 96 Hours

## Components

METHYLENE CHLORIDE (75-09-2)

## Test Results

EC50 Water flea (Daphnia magna): 1250 mg/l 48 Hours  
LC50 Fathead minnow (Pimephales promelas): 140.8 - 277.8 mg/l 96 Hours

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

## 13. Disposal Considerations

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

## 14. Transport Information

### DOT

#### Basic shipping requirements:

<b>UN number</b>	UN2922
<b>Proper shipping name</b>	Corrosive liquids, toxic, n.o.s. (FORMIC ACID 90% RQ=49020 LBS, METHYLENE CHLORIDE RQ=1171 LBS)
<b>Hazard class</b>	8
<b>Subsidiary hazard class</b>	6.1
<b>Packing group</b>	II

**Additional information:**

<b>Special provisions</b>	IB3, T7, TP1, TP28
<b>Packaging exceptions</b>	154
<b>Packaging non bulk</b>	203
<b>Packaging bulk</b>	241
<b>ERG number</b>	154

### IATA

#### Basic shipping requirements:

<b>Proper shipping name</b>	Corrosive liquid, toxic, n.o.s. (FORMIC ACID 90%, METHYLENE CHLORIDE)
<b>Hazard class</b>	8
<b>Subsidiary hazard class</b>	6.1
<b>UN number</b>	2922
<b>Packing group</b>	II



DOT



IATA

## 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

FORMIC ACID 90% (64-18-6)	1.0 %
METHYLENE CHLORIDE (75-09-2)	0.1 %

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

FORMIC ACID 90% (64-18-6)	Listed.
METHYLENE CHLORIDE (75-09-2)	Listed.

## CERCLA (Superfund) reportable quantity

METHYLENE CHLORIDE: 1000  
FORMIC ACID 90%: 5000  
ACETIC ACID, GLACIAL: 5000  
BENZENE SULFONIC ACID, DODECYL-: 1000

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

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

METHYLENE CHLORIDE (75-09-2) Listed.

### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

METHYLENE CHLORIDE (75-09-2) Listed: April 1, 1988 Carcinogenic.

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

FORMIC ACID 90% (64-18-6) 500 LBS

METHYLENE CHLORIDE (75-09-2) 500 LBS

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

ACETIC ACID, GLACIAL (64-19-7) Listed.

BENZENE SULFONIC ACID, DODECYL- (27176-87-0) Listed.

FORMIC ACID 90% (64-18-6) Listed.

METHYLENE CHLORIDE (75-09-2) Listed.

### US - Pennsylvania RTK - Hazardous Substances: Special hazard

METHYLENE CHLORIDE (75-09-2) Special hazard.

## 16. Other Information

**HMIS® ratings**  
Health: 3\*  
Flammability: 0  
Physical hazard: 0

**NFPA ratings**  
Health: 3  
Flammability: 0  
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.