



## Safety Data Sheet

### Cycure™ Agent C

Morpholine, 4-methylbenzenesulfonate

#### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Cycure™ Agent C (Morpholine, 4-methylbenzenesulfonate)

**Synonyms:** Curing Agent C

Morpholinep-toluenesulfonate

Morpholiniump-tosylate

CURING AGENT C

TOLUENE-4-SULFONIC ACID MORPHOLINE SALT

morpholinium toluene-4-sulphonate

MORPHOLINE TOSYLATE

**Company Identification:**

Cymer, LLC

124 Cymer Lane

Decatur, TN 37322

**For information, call:** 423-334-2778

**For CHEMTEL assistance, call:** 1-888.255.3924

**For International CHEMTEL assistance, call:**+1.813.248.0573

#### Section 2 - Hazards Identification

##### Emergency Overview

##### OSHA Hazards

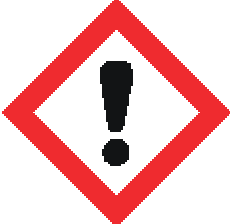
Irritant

##### GHS Classification

Skin irritation (Category 2)

Eye irritation (Category 2A)

**GHS Label elements, including precautionary statements**

Pictogram	
Signal word	Warning

**Hazard statement(s)**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

**Precautionary statement(s)**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**HMIS Classification**

**Health hazard:** 1  
**Flammability:** 1  
**Physical hazards:** 0

**NFPA Rating**

**Health hazard:** 1  
**Fire:** 1  
**Reactivity Hazard:** 0

**Potential Health Effects**

**Inhalation** May causes respiratory tract irritation.  
**Skin** Causes skin irritation.  
**Eyes** Causes eye irritation.  
**Ingestion** May be harmful if swallowed.

**Section 3 - Composition, Information on Ingredients**

**Cycure™ Agent C** (Morpholine, 4-methylbenzenesulfonate)

**Synonyms:** Curing Agent C

Morpholinep-toluenesulfonate

Morpholiniump-tosylate

CURING AGENT C

TOLUENE-4-SULFONIC ACID MORPHOLINE SALT

morpholinium toluene-4-sulphonate

MORPHOLINE TOSYLATE

Formula: C28H42O2

Molecular Weight: 259,32 g/mol

CAS#	Chemical Name	Percent	EINECS/ELINCS
13732-62-2	Morpholine, 4-methylbenzenesulfonate	98.0-100.0	237-301-3

## Section 4 - First Aid Measures

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Section 5 - Fire Fighting Measures

### Flammable properties – Non-flammable

Flash point >200 °F

Ignition temperature no data available

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## Section 6 - Accidental Release Measures

### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

### Environmental precautions

Do not let product enter drains.

### Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## Section 7 - Handling and Storage

### Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Storage

Keep container tightly closed in a dry and well-ventilated place.

## Section 8 - Exposure Controls, Personal Protection

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Morpholine, 4-methylbenzenesulfonate	none listed	none listed	none listed

**OSHA Vacated PELs:** Morpholine, 4-methylbenzenesulfonate: No OSHA Vacated PELs are listed for this chemical.

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves.

#### Eye protection

Safety glasses

#### Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Section 9 - Physical and Chemical Properties

**Physical State:** Solid

**Appearance:** White powder, crystalline

**Odor:** none

**Odor Threshold:** no data available

**pH:** 5.0 min

**Vapor Pressure:** no data available

**Vapor Density:** no data available.

**Melting point/range:** 123 - 126 °C

**Ignition temperature:** no data available

**Auto ignition temperature:** no data available

**Combustible Dust Minimum Exclusivity Concentration:** no data available.

**Combustible Dust Minimum Ignition Energy:** no data available.

**Upper explosion limit:** no data available

**Flash point:** no data available.

**Evaporation Rate:** no data available.

**Viscosity:** no data available.

**Boiling Point:** 452.5°C at 760 mmHg.

**Decomposition Temperature:** no data available.

**Solubility:** Insoluble in water

**Specific Gravity/Density:** no data available

**Molecular Formula:** C<sub>11</sub>H<sub>17</sub>NO<sub>4</sub>S

**Molecular Weight:** 410.63 g/mol

## Section 10 - Stability and Reactivity

**Storage stability**

Stable under recommended storage conditions.

**Materials to avoid**

Strong oxidizing agents.

**Hazardous Polymerization:** Will not occur.

## Section 11 - Toxicological Information

**Acute toxicity**

no data available

**Irritation and corrosion**

no data available

**Sensitisation**

no data available

**Chronic exposure**

no data available

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Potential Health Effects**

**Inhalation** Causes respiratory tract irritation.

**Skin** Causes skin irritation.

**Eyes** Causes eye irritation.

**Ingestion** May be harmful if swallowed.

## Section 12 - Ecological Information

**Elimination information (persistence and degradability)**

no data available

**Ecotoxicity effects**

no data available

**Further information on ecology**

no data available

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste

regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

**Contaminated packaging**

Dispose of as unused product.

## Section 14 - Transport Information

	US DOT	Canada TDG
<b>Shipping Name:</b>	No information available.	No information available.
<b>Hazard Class:</b>		
<b>UN Number:</b>		
<b>Packing Group:</b>		

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

## Section 15 - Regulatory Information

**OSHA Hazards**

Irritant

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**New Jersey Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

## Section 16 - Additional Information

**MSDS Creation Date: 1/26/2013**

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Cymer, LLC be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Cymer has been advised of the possibility of such damages.*