

# Safety Data Sheet

## DEGADUR R41

Revision date : 2012/07/10  
Version: 1.2

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(30413005/SDS\_GEN\_US/EN)

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### 1. Product and Company Identification

Company  
BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information  
CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

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### 2. Hazards Identification

#### Emergency overview

WARNING:  
FLAMMABLE LIQUID AND VAPOR.  
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
MAY CAUSE ALLERGIC SKIN REACTION.  
Keep container tightly closed.  
Avoid all sources of ignition: heat, sparks, open flame.  
Risk of hazardous polymerization under certain conditions (e.g. elevated temperatures, low inhibitor and oxygen concentration).

State of matter: liquid  
Colour: colourless, cloudy  
Odour: sweetish, ester-like

#### Potential health effects

##### **Primary routes of exposure:**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

##### **Acute toxicity:**

The product has not been tested. The statement has been derived from the properties of the individual components.

##### **Sensitization:**

May produce an allergic reaction. Sensitization after skin contact possible. The product has not been tested. The statement has been derived from the properties of the individual components.

#### Potential environmental effects

##### **Aquatic toxicity:**

Acutely harmful for aquatic organisms.

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### 3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
80-62-6	>= 60.0 - <= 100.0 %	Methyl methacrylate

### 4. First-Aid Measures

**General advice:**

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

**If inhaled:**

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

**If on skin:**

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

**If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

**If swallowed:**

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

### 5. Fire-Fighting Measures

Flash point:	9 °C
Lower explosion limit:	2.1 %(V)
Upper explosion limit:	12.5 %(V)

**Suitable extinguishing media:**

foam, water spray, dry powder, carbon dioxide

**Unsuitable extinguishing media for safety reasons:**

water jet

**Hazards during fire-fighting:**

carbon monoxide, carbon dioxide, harmful vapours, nitrogen oxides, fumes/smoke, carbon black

**Protective equipment for fire-fighting:**

Wear a self-contained breathing apparatus.

**Further information:**

Contaminated extinguishing water must be disposed of in accordance with official regulations.

### 6. Accidental release measures

**Personal precautions:**

Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Sources of ignition should be kept well clear. Handle in accordance with good building materials hygiene and safety practice.

**Environmental precautions:**

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

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### **Cleanup:**

For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.

For large amounts: Pump off product.

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## 7. Handling and Storage

### Handling

#### **General advice:**

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. No special measures necessary provided product is used correctly.

#### **Protection against fire and explosion:**

Keep away from heat. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

### Storage

#### **General advice:**

Keep only in the original container in a cool, well-ventilated place. Protect from direct sunlight. Vapours may travel along floor and ignite at a location distant from the handling point.

#### **Storage incompatibility:**

General advice: Segregate from metals. Segregate from lyes. Segregate from oxidants. Segregate from foods and animal feeds.

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## 8. Exposure Controls and Personal Protection

### Components with workplace control parameters

Methyl methacrylate	OSHA	PEL 100 ppm 410 mg/m3 ;
	ACGIH	TWA value 50 ppm ; STEL value 100 ppm ;

### Personal protective equipment

#### **Respiratory protection:**

When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.

#### **Hand protection:**

Wear chemical resistant protective gloves., Manufacturer's directions for use should be observed because of great diversity of types.

#### **Eye protection:**

Tightly fitting safety goggles (chemical goggles).

#### **Body protection:**

Body protection must be chosen based on level of activity and exposure.

#### **General safety and hygiene measures:**

Avoid contact with the skin, eyes and clothing. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

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## 9. Physical and Chemical Properties

Form: liquid

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Odour:	sweetish, ester-like	
Colour:	colourless, cloudy	
pH value:		not applicable
Boiling point:	100 °C	( 1,013 hPa)
Density:	0.94 g/cm <sup>3</sup>	( 20 °C)
Partitioning coefficient n-octanol/water (log Pow):		No data available.
Solubility in water:	approx. 16 g/l	( 20 °C)
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

## 10. Stability and Reactivity

### Substances to avoid:

strong acids, strong bases, strong oxidizing agents

### Hazardous reactions:

The product is stable if stored and handled as prescribed/indicated.

### Decomposition products:

Thermal decomposition products: carbon oxides

### Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

## 11. Toxicological information

### Acute toxicity

*Information on: Methyl methacrylate*

*Assessment of acute toxicity:*

*Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.*

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### Irritation / corrosion

*Information on: Methyl methacrylate*

*Assessment of irritating effects:*

*Irritating to skin. Not irritating to the eyes.*

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### Sensitization

*Information on: Methyl methacrylate*

*Assessment of sensitization:*

*Caused skin sensitization in animal studies.*

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Can sensitize the skin and/or respiratory tract of allergic persons. May produce an allergic reaction.

### Repeated dose toxicity

*Information on: Methyl methacrylate*

*Assessment of repeated dose toxicity:*

*After repeated exposure the prominent effect is local irritation.*

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### 12. Ecological Information

**Other adverse effects:**

May cause long-term adverse effects in the aquatic environment.

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### 13. Disposal considerations

**Waste disposal of substance:**

Recommendations: Use excess product in an alternate beneficial application. Dispose of in accordance with national, state and local regulations.

Dispose of in accordance with national, state and local regulations.

**Container disposal:**

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

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### 14. Transport Information

**Land transport**

USDOT

Hazard class: 3  
Packing group: II  
ID number: UN 1866  
Hazard label: 3  
Proper shipping name: RESIN SOLUTION

**Sea transport**

IMDG

Hazard class: 3  
Packing group: II  
ID number: UN 1866  
Hazard label: 3  
Marine pollutant: NO  
Proper shipping name: RESIN SOLUTION

**Air transport**

IATA/ICAO

Hazard class: 3  
Packing group: II  
ID number: UN 1866  
Hazard label: 3  
Proper shipping name: RESIN SOLUTION

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### 15. Regulatory Information

**Federal Regulations**

**Registration status:**

Chemical TSCA, US released / listed

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**OSHA hazard category:** Chronic target organ effects reported; ACGIH TLV established; Flammable Liquid

**EPCRA 311/312 (Hazard categories):** Acute; Chronic; Fire; Sudden release of pressure

**EPCRA 313:**

<u>CAS Number</u>	<u>Chemical name</u>
80-62-6	Methyl methacrylate

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
1000 LBS	80-62-6	Methyl methacrylate

**State regulations**

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
MA, NJ, PA	80-62-6	Methyl methacrylate

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## 16. Other Information

**HMIS III rating**

Health: 2      Flammability: 3      Physical hazard: 2

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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**MSDS Prepared by:**

BASF NA Product Regulations  
msds@basf.com  
MSDS Prepared on: 2012/07/10

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