

Safety data sheet

DEGADUR R17

Revision date : 2009/01/27
Version: 1.0

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(30416065/MDS_GEN_US/EN)

1. Substance/preparation and company identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932, USA

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

2. 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
	5.0 - 10.0 %	Proprietary aliphatic hydrocarbon
	1.0 - 5.0 %	Proprietary substituted tertiary amine
	0.1 - 1.0 %	Proprietary methacrylic acid ester

3. Hazard identification

Emergency overview

WARNING: FLAMMABLE LIQUID AND VAPOR.
HARMFUL IF INHALED.
Irritating to respiratory system and skin.
May cause sensitization by skin contact.
Prolonged contact may cause allergic skin reactions.
Avoid all sources of ignition: heat, sparks, open flame.
Avoid contact with the skin, eyes and clothing.
Wash thoroughly after handling.
Keep container tightly closed.

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.

Irritation:

Irritating to respiratory system and skin. Not irritating to the eyes.

Sensitization:

Caused skin sensitization in animal studies. Caused sensitization in humans.

Repeated dose toxicity:

After repeated exposure the prominent effect is local irritation.

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4. First-aid measures

If inhaled:

If not breathing, give artificial respiration. Remove victim to fresh air and away from exposure immediately.

If on skin:

If symptoms persist, seek medical advice. Wash thoroughly with soap and water.

If in eyes:

Flush with copious amounts of water for at least 15 minutes.

If swallowed:

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting unless told to by a poison control center or doctor. If person is conscious and can swallow, give two glasses of water.

Note to physician

Symptoms:

Overexposure may cause: , asthma, tiredness, loss of memory, pain in the extremities, sleep disturbances, headache

5. Fire-fighting measures

Flash point: 9 °C
48 °F

Information on: Methyl methacrylate

Autoignition: Unspecified

Lower explosion limit: 2.1 %(V)

Information on: Methyl methacrylate

Upper explosion limit: 12.5 %(V)

Information on: Methyl methacrylate

Suitable extinguishing media:

carbon dioxide, dry extinguishing media, foam, water fog

Further information:

Run-off water from fire may cause pollution. Keep containers cool by spraying with water if exposed to fire. Containers may rocket or explode in heat of fire.

6. Accidental release measures

Cleanup:

Dike spillage. Contain spills and cover with absorbent material.

7. Handling and storage

Handling

General advice:

Take precautionary measures against static discharges. Ensure thorough ventilation of stores and work areas.

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Storage

General advice:

Keep container tightly closed. Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.

8. Exposure controls and personal protection

Components with workplace control parameters

Methyl methacrylate	OSHA	PEL 100 ppm 410 mg/m ³ ;
	ACGIH	TWA value 50 ppm ; STEL value 100 ppm ;

Advice on system design:

Provide local exhaust ventilation to maintain recommended P.E.L.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) respirator as necessary. Wear respiratory protection if ventilation is inadequate.

Hand protection:

Wear chemical resistant protective gloves.

Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Safety glasses/face shield

Body protection:

chemical-protection suit (f.e. according to EN 14605), Protective suit, Impermeable protective clothing

General safety and hygiene measures:

Food, beverages, and tobacco products shall not be carried, stored, or consumed where this material is in use. Hands and/or face should be washed before breaks and at the end of the shift. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Form:	liquid	
Odour:	sweetish, ester-like	
Colour:	colourless	
pH value:		not applicable
Boiling point:	100 °C	(1,013 hPa)
Vapour pressure:	approx. 40 hPa	(20 °C)
Density:	0.93 g/cm ³	(20 °C)
<i>Information on: Methyl methacrylate</i>		
Partitioning coefficient n-octanol/water (log Pow):	0.7 - 1.38	(measured)

Viscosity, dynamic:	1 mPa.s	(20 °C)

10. Stability and reactivity

Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. Avoid direct sunlight.

Substances to avoid:

bases, strong oxidizing agents, strong acids, peroxides, amines

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Hazardous reactions:

The product is chemically stable.

Decomposition products:

carbon oxides

Thermal decomposition:

> 95 °F

May decompose if overheated and/or subjected to prolonged heating.

Oxidizing properties:

not fire-propagating

11. Toxicological information

Acute toxicity**Oral:**

LD50/rat: > 5,000 mg/kg

Inhalation:

LC50/rat: 29.8 mg/l / 4 h

Dermal:

LD50/rabbit: > 5,000 mg/kg

12. Ecological information

Environmental toxicity**Other ecotoxicological advice:**

Acutely harmful for aquatic organisms.

13. Disposal considerations

Waste disposal of substance:

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

Recommendations: Use excess product in an alternate beneficial application.

14. Transport information

Land transport

USDOT

Hazard class: 3

Packing group: II

ID number: UN 1247

Hazard label: 3

Proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

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Sea transport

IMDG

Hazard class: 3
Packing group: II
ID number: UN 1247
Hazard label: 3
Marine pollutant: NO
Proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

Air transport

IATA/ICAO

Hazard class: 3
Packing group: II
ID number: UN 1247
Hazard label: 3
Proper shipping name: METHYL METHACRYLATE MONOMER, STABILIZED

15. Regulatory information

Federal Regulations

Registration status:

TSCA, US released / listed

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

CERCLA RQ

1000 LBS

CAS Number

80-62-6

Chemical name

Methyl methacrylate

SARA hazard categories (EPCRA 311/312): Acute, Chronic, Fire

SARA 313:

CAS Number

80-62-6

Chemical name

Methyl methacrylate

State regulations

State RTK

CAS Number

80-62-6

Chemical name

Methyl methacrylate

State RTK

MA, NJ, PA

16. Other information

HMIS III rating

Health: 2 Flammability: 3 Physical hazard: 2

HMIS uses 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 high hazard.

Local contact information

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