BASF
The Chemical Company

Safety data sheet
DEGADUR 523

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

CAS Number	Content (W/W)	Chemical name
80-62-6	40.0 - 70.0 %	Methyl methacrylate
103-11-7	7.0 - 13.0 %	2-ethylhexyl acrylate
	1.0 - 5.0 %	Proprietary methacrylic acid ester
	0.5 - 1.5 %	Proprietary substituted tertiary amine

3. Hazard identification

Emergency overview

WARNING: FLAMMABLE LIQUID AND VAPOR.
CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
MAY BE HARMFUL IF SWALLOWED.
MAY CAUSE ALLERGIC SKIN REACTION.
Keep container tightly closed.
Avoid all sources of ignition: heat, sparks, open flame.

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:
Information on: 2-ethylhexyl acrylate
Of low toxicity after single ingestion.
Virtually nontoxic after a single skin contact.
The inhalation of a highly enriched/saturated vapor-air-mixture represents an unlikely acute hazard.

Irritation:
Information on: 2-ethylhexyl acrylate
Irritating to respiratory system and skin. Not irritating to the eyes. Information on: Methyl methacrylate
Irritating to respiratory system and skin. Not irritating to the eyes.
Sensitization:
May produce an allergic reaction. Sensitization after skin contact possible.

Information on: 2-ethylhexyl acrylate
Caused skin sensitization in animal studies.
Information on: Methyl methacrylate
Caused skin sensitization in animal studies.
Caused sensitization in humans.

Repeated dose toxicity:
Information on: Methyl methacrylate
After repeated exposure the prominent effect is local irritation.

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:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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:	48 °F
Lower explosion limit:	2.1 %(V)
Upper explosion limit:	12.5 %(V)

Suitable extinguishing media:
foam, water spray, dry extinguishing media, 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:
Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure build up due to heat. The degree of risk is governed by the burning substance and the fire conditions. 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.

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.

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, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight. Store protected against freezing.

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

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).

9. Physical and chemical properties

Form:	liquid	
Odour:	ester-like	
Colour:	clear to slightly cloudy	
pH value:		Unspecified
Boiling point:	approx. 100 °C	
Density:	0.99 g/cm3	(20 °C)
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Viscosity, dynamic:	200 - 300 mPa.s	(23 °C)

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

11. Toxicological information

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

12. Ecological information

Environmental toxicity

Other ecotoxicological advice:
Ecological data are not available.

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.

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

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

15. Regulatory information

Federal Regulations

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

CERCLA RQ	CAS Number	Chemical name
1000 LBS	80-62-6	Methyl methacrylate

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

SARA 313:

CAS Number	Chemical name
80-62-6	Methyl methacrylate

State regulations

State RTK

CAS Number	Chemical name	State RTK
80-62-6	Methyl methacrylate	MA, NJ, PA
103-11-7	2-ethylhexyl acrylate	MA, 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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