The Chemical Company

Safety data sheet

BASF Safety data sheet according to 91/155/EEC
Date / Revised: 2008/01/02 Version: 1.0
Product: **MMA**

(30416145/MDS_GEN_US/EN)
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1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

MMA

Use: Product for construction chemicals

Company:
BASF Construction Chemicals, LLC
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Florham Park, NJ 07932, USA
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Telefax number: +1 973 245-6839
E-mail address: prod_reg@basf.com

Emergency information:
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP

2. HAZARDOUS INGREDIENTS

Chemical	CAS No.	TLV	STEL	PEL	CEIL	Weight %
METHYL METHACRYLATE	80-62-6	50 ppm	100 ppm	100 ppm	N.E.	99.00 - 100.00 %

3. HAZARDS IDENTIFICATION

HMIS® Rating		HEALTH 2	FLAMMABILITY 3	PHYSICAL HAZARD 2
WHMIS Class	:	B2 D2B		

Effects of Overexposure

Inhalation	:	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Inhalation of high vapor concentrations can cause CNS-depression and narcosis. Prolonged inhalation can be harmful. Moderately toxic by inhalation.
Skin	:	Prolonged or repeated exposure can cause skin irritation and redness. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitization by skin contact.
Eyes	:	Can cause moderate to severe irritation, redness, tearing and blurred vision.
Ingestion	:	Intake can cause gastrointestinal irritation, nausea, and vomiting. Irritating to mouth, throat and stomach.
Chronic exposure	:	Existing respiratory or skin ailments may be aggravated by exposure. Chronic ingestion, skin contact, and/or inhalation can cause damage to the liver and kidney.

Carcinogenicity

	ACGIH	IARC	NTP	OSHA
METHYL METHACRYLATE	Sensitiser.	Inadequate data.	N.E.	N.E.

4. FIRST AID MEASURES

Eye contact	:	Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.
Skin contact	:	Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.
Ingestion	:	Do not induce vomiting without medical advice. If conscious, drink plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician. If a person vomits, place him/her in the recovery position. Never give anything by mouth to an unconscious person. Seek medical advice.
Inhalation	:	Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

Flash point	:	50 °F (10 °C) Method: Pensky-Martens C.C.
Autoignition temperature	:	no data available
Lower explosion limit	:	2.1 %(V)
Upper explosion limit	:	12.5 %(V)
Suitable extinguishing media	:	water fog foam carbon dioxide (CO2) dry chemical
Fire and Explosion Hazards	:	Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at

or above the flashpoint. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH. Heating can release vapours which can be ignited. Solid stream of water or foam can cause frothing.

Special Fire-fighting Procedures : Can be ignited by heat, sparks or flame. At higher temperature pressure build up in sealed containers. Use water to cool containers exposed to fire. As in any fire, wear pressure demand self-contained breathing apparatus (NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up : Ventilate the area and remove all sources of ignition. Evacuate unnecessary personnel. Take action to eliminate source of leak. Large spills should be handled carefully. Put on respiratory protection and necessary personal protective equipment. Dike or impound spilled Liquid. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Handling : Keep out of reach of children. Use only in area provided with appropriate ventilation. Take precautionary measures against static discharges. Ground and bound containers when transferring material. Avoid temperatures above 95°F (35°C) and/or contamination. Higher temperatures and/or contamination promotes exothermic decomposition possibly leading to pressure buildup and container failure/explosion. Excessive heat, fumes and smoke can occur if this product is not mixed and used according to directions. For personal protection see section 8.

Storage : Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye protection : When handling product, wear protective equipment such as:
safety glasses with side-shields
tightly fitting safety goggles
face-shield
Do NOT wear contact lenses when working with this material.

Hand protection : Wear Chemically resistant gloves.

Body Protection : Wear as appropriate:
Chemically resistant clothes
protective suit
impervious clothing

Respiratory protection : In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use NIOSH approved respirators.

Hygienic Practices	:	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.
Engineering Controls	:	Local exhaust ventilation can be necessary to control any air contaminants to within their TLVs during the use of this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color	:	colourless
Physical State	:	liquid
Odor	:	ester-like
pH	:	not applicable
Odor Threshold	:	no data available
Vapor Pressure	:	38.7 hPa at 68 °F (20 °C)
Vapor Density	:	Heavier than air
Boiling point/range	:	212.5 °F (100.3 °C) 1,013 hPa
Freeze Point	:	-54.8 °F (-48.2 °C)
Water solubility	:	15.9 g/l 20 °C (68 °F)
Specific Gravity	:	0.94
Evaporation rate	:	Faster than Butyl acetate
Partition coefficient (n-octanol/water)	:	no data available
VOC Concentration as applied (less water and exempt solvents)	:	Note: no data available

10. STABILITY AND REACTIVITY

Stability	:	Stable. However, this product may decompose if it is exposed to temperatures above 95°F (35°C) for extended periods of time.
Conditions to avoid	:	Heat, flames and sparks. Direct sources of heat. Strong sunlight for prolonged periods. Prolonged exposure to high temperatures
Materials to avoid	:	bases strong acids amines peroxides

strong oxidizing agents

Hazardous decomposition products : Irritating or toxic fumes
Oxides of carbon.

Hazardous polymerization : Will not occur when handled according to manufacturer's instructions.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

	Type	Value	Species	Exposure time
Product	LC50	no data available		
Component				
METHYL METHACRYLATE	LC50	18500 mg/m3 78000 mg/m3	mouserat	2 h4 h

Acute oral toxicity

	Type	Value	Species
Product	LD50 (Oral)	no data available	
Component			
METHYL METHACRYLATE	LD50 (Oral)	7,872 mg/kg3,625 mg/kg8,700 mg/kg5,954 mg/kg4,725 mg/kg	ratmouserabbitguinea pigdog

Acute dermal toxicity

	Type	Value	Species
Product	LD50 (Dermal)	no data available	
Component			
METHYL METHACRYLATE	LD50 (Dermal)	5,000 mg/kg	rabbit

12. ECOLOGICAL INFORMATION

Ecotoxicological Information : There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in manner which complies with local, state, province and federal regulation.

14. TRANSPORT INFORMATION

DOT	:	Proper shipping name	METHYL METHACRYLATE, MONOMER, STABILIZED, SOLUTION
		UN-No	**1247**
		Class	3
		Packaging group	II
		Primary Label	Flammable liquid
IATA	:	Proper shipping name	METHYL METHACRYLATE, MONOMER, STABILIZED, SOLUTION
		UN-No	**1247**
		Class	3
		Packaging group	II
		Primary Label	Flammable liquid

15. REGULATORY INFORMATION

SARA 311/312 (RTK)
This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

FIRE HAZARD IMMEDIATE (ACUTE) HEALTH HAZARD REACTIVITY

SARA 313
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Weight %	CAS No.	Chemical Name
99.00 - 100.00 %	80-62-6	METHYL METHACRYLATE

CERCLA
CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product.

RQ	CAS No.	Chemical Name
1,000 lbs	80-62-6	METHYL METHACRYLATE

TSCA Section 12(b) Export Notification
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

CAS No.	Chemical Name
150-76-5	4-METHOXYPHENOL

There are no TSCA 12(b) Chemicals in this product.

California Proposition 65
The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless otherwise specified in Section 2 of this MSDS, these chemicals are present at

< 0.1%:

CAS No.	Chemical Name

There are no Proposition 65 chemicals known to exist in this product.

16. OTHER INFORMATION

Legend	:	N.E. - Not Established TLV - Threshold Limit Value STEL - Short Term Exposure Limit PEL - Permissible Exposure Limit CEIL - Ceiling
Prepared By	:	Environment, Health and Safety Department

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.