

**X60-B (Verbesserte Rezeptur)**

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**1. Identification****Product identifier**

X60-B (Verbesserte Rezeptur)

UFI: AF00-Q070-A00F-4JHF

**Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Binder

**Uses advised against**

No information available.

**Details of the supplier of the safety data sheet**

Company name: Hottinger Brüel & Kjaer  
Street: Im Tiefen See 45  
Place: D-64293 Darmstadt  
Telephone: +49 (0)6151 803-0  
Internet: www.hbm.com  
Responsible Department: support@hbm.com

**Emergency telephone number:** +49-30-18412-0**2. Hazard identification****Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Flammable liquid: Flam. Liq. 2

Skin corrosion/irritation: Skin Irrit. 2

Respiratory or skin sensitization: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3 (respiratory tract irritation)

**Label elements****Regulation (EC) No. 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

Highly flammable liquid and vapour.  
Causes skin irritation.  
May cause an allergic skin reaction.  
May cause respiratory irritation.

**Precautionary statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep container tightly closed.  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.

**Special labelling of certain mixtures**

Restricted to professional users.

**Labelling of packages where the contents do not exceed 125 ml****Signal word:** Danger

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## Pictograms:



## Hazard statements

H317

## Precautionary statements

P261-P280

Other hazards

No information available.

## 3. Composition/information on ingredients

Mixtures

## Hazardous components

CAS No	Chemical name	Quantity
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate	65 - < 70 %
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	5 - < 10 %

Full text of H statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
80-62-6	201-297-1	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate	65 - < 70 %
		inhalation: LC50 = 78000 mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = 7872 mg/kg	

## 4. First-aid measures

Description of first aid measures**General information**

Remove affected person from the danger area and lay down. If unconscious but breathing normally, place in recovery position and seek medical advice. First aider: Pay attention to self-protection!

**After inhalation**

Provide fresh air. In case of respiratory tract irritation, consult a physician.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious). If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Most important symptoms and effects, whether acute or delayed

No information available.

Indication of immediate medical attention and special treatment needed

No information available.

## 5. Fire-fighting measures

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**Extinguishing media****Suitable extinguishing media**

Water spray jet, Dry extinguishing powder, Foam

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the hazardous product**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**Special protective equipment and precautions for fire-fighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

Co-ordinate fire-fighting measures to the fire surroundings.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General measures**

Do not breathe gas/vapour/aerosol. Provide adequate ventilation as well as local exhaust at critical locations. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Personal protection equipment: see section 8

**Environmental precautions**

Do not allow to enter into surface water or drains.

Do not allow uncontrolled discharge of product into the environment.

**Methods and material for containment and cleaning up****Other information**

Take up mechanically, placing in appropriate containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means., Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Advice on protection against fire and explosion**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

**Further information on handling**

Wear personal protection equipment (refer to section 8). Do not empty into drains. When using do not eat, drink, smoke, sniff.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

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

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**Hints on joint storage**

TRGS 510

**Further information on storage conditions**

No information available.

**8. Exposure controls/Personal protection****Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

**Exposure controls****Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

**Protective and hygiene measures**

When using do not eat or drink. Do not breathe gas/fumes/vapour/spray.

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Wear suitable protective clothing, gloves and eye/face protection.

Draw up and observe skin protection programme.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. EN ISO 374

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Thickness of the glove material:  $\geq 0,7\text{mm}$ 

Suitable gloves type NBR (Nitrile rubber)

Breakthrough time:  $\geq 480\text{ min}$ 

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Used working clothes should not be worn outside the work area. Separate storage of work clothes.

**Respiratory protection**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filtering device (full mask or mouthpiece) with filter: a

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	brown
Odour:	Amines

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pH-Value: not determined

**Changes in the physical state**

Melting point: not determined

Boiling point or initial boiling point and boiling range: 101 °C

Sublimation point: not determined

Softening point: not determined

Pour point: not determined

not determined:

Flash point: 10 °C

Sustaining combustion: No data available

Sustaining combustion: No data available

**Flammability**

Solid/liquid: not determined

Gas: not determined

**Explosive properties**

not determined

Lower explosive limits: 2,1 vol. %

Upper explosive limits: 12,5 vol. %

Auto-ignition temperature: 430 °C

**Self-ignition temperature**

Solid: not determined

Gas: not determined

Decomposition temperature: not determined

**Oxidizing properties**

not determined

Vapour pressure: 53 hPa

(at 20 °C)

Vapour pressure: not determined

(at 50 °C)

Density (at 20 °C): not determined

Bulk density: not determined

Water solubility: not determined

**Solubility in other solvents**

not determined

Partition coefficient n-octanol/water: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Flow time: not determined

Relative vapour density: not determined

Evaporation rate: not determined

Solvent separation test: not determined

Solvent content: not determined

**Other information**

Solid content: not determined

No information available.

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**10. Stability and reactivity****Reactivity**

No information available.

**Chemical stability**

The substance is chemically stable under recommended conditions of storage, use and temperature.

**Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**Conditions to avoid**

No information available.

**Incompatible materials**

No information available.

**Hazardous decomposition products**

No information available.

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Route of exposure	Dose	Species	Source	Method
80-62-6	methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate				
	oral	LD50 mg/kg	7872	Rat	
	dermal	LD50 mg/kg	>5000	Rabbit	
	inhalation (4 h) vapour	LC50 mg/l	78000	Rat	

**Irritation and corrosivity**

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitizing effects**

May cause an allergic skin reaction. (methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate)

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

May cause respiratory irritation. (methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate)

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**12. Ecological information****Persistence and degradability**

No information available.

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**Bioaccumulative potential**

No information available.

**Mobility in soil**

No information available.

**Other adverse effects**

No information available.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

**14. Transport information****Canadian TDG**

<b><u>UN/ID number:</u></b>	UN 1247
<b><u>Proper shipping name:</u></b>	METHYL METHACRYLATE MONOMER, STABILIZED
<b><u>Hazard classes:</u></b>	3
<b><u>Packing group:</u></b>	II
Hazard label:	3
Limited quantity:	1L

**Marine transport (IMDG)**

<b><u>UN number:</u></b>	UN 1247
<b><u>United Nations proper shipping name:</u></b>	METHYL METHACRYLATE MONOMER, STABILIZED
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	II
Hazard label:	3



Special Provisions:	386
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-E, S-D

**Air transport (ICAO-TI/IATA-DGR)**

<b><u>UN number:</u></b>	UN 1247
<b><u>United Nations proper shipping name:</u></b>	METHYL METHACRYLATE MONOMER, STABILIZED
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	II
Hazard label:	3

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Special Provisions:	A209	
Limited quantity Passenger:	1 L	
Passenger LQ:	Y341	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:		353
IATA-max. quantity - Passenger:		5 L
IATA-packing instructions - Cargo:		364
IATA-max. quantity - Cargo:		60 L

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**15. Regulatory information****Canadian regulations****16. Other information****Changes**

This data sheet contains changes from the previous version in section(s): 3,8,14.

**Classification for mixtures and used evaluation method according to GHS**

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Irrit. 2; H315	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method

**Relevant H statements (number and full text)**

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*