

**Material Safety Data Sheet**

according to ANSI Z400.1-2004

X60 - B

Print date: 23.08.2012

Page 1 of 5

SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product identifier**

X60 - B

Chemical characterization (Mixture)**Details of the supplier of the safety data sheet**

Company name: Hottinger Baldwin Messtechnik GmbH
Darmstadt
Street: Im Tiefen See 45
Place: D-64293 Darmstadt
Telephone: +49 (0)6151 803-0
e-mail: info@de.hbm.com
Internet: www.hbm.com
Responsible Department: Customer Care Center CCC +49 6151 803 0

Emergency telephone: +49(0)6131/19240**SECTION 2: Hazards identification****Route(s) of Entry****Signs and Symptoms of Exposure**

Carcinogenicity (NTP):
Carcinogenicity (IARC):
Carcinogenicity (OSHA):

Other hazards

According to EC directives or the corresponding national regulations there is no labelling obligation for this product.

SECTION 3: Composition/information on ingredients**Mixtures****Hazardous components**

CAS No	Components	Quantity
80-62-6	methyl 2-methylprop-2-enoate, methyl 2-methylpropenoate, methyl methacrylate	50-100%
868-77-9	2-hydroxyethyl methacrylate	25-50%
99-97-8	N,N-dimethyl-p-toluidine	<2.5%

SECTION 4: First aid measures**Description of first aid measures****General information**

In all cases of doubt, or when symptoms persist, seek medical advice.
Take off immediately all contaminated clothing.

After inhalation

Provide fresh air. In case of breathing difficulties administer oxygen. Medical treatment necessary.

**Material Safety Data Sheet**

according to ANSI Z400.1-2004

X60 - B

Print date: 23.08.2012

Page 2 of 5

After contact with skin

After contact with skin, wash immediately with: Water. Subsequently wash again with: Polyethylene glykol 400. Take off immediately all contaminated clothing. Medical treatment necessary.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Do not induce vomiting. Get immediate medical advice/attention.
Rinse mouth immediately and drink large quantities of water. Medical treatment necessary.
Caution if victim vomits: Risk of aspiration!

Indication of any immediate medical attention and special treatment needed

In the case of blue colouration of lips, earlobes, finger nails apply oxygen respiration as soon as possible.

SECTION 5: Firefighting measures**Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂). Extinguishing powder. Water spray. alcohol resistant foam.

Unsuitable extinguishing media

High power water jet.

Special hazards arising from the substance or mixture

Combustible. Vapours may form explosive mixtures with air.

Advice for firefighters

Wear a self-contained breathing apparatus and chemical resistant suit.

Additional information

Use water spray/stream to protect personnel and to cool endangered containers. Use a water spray jet to knock down vapours/gases/mists. Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment.

SECTION 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eye and clothing. Wear personal protection equipment.

Environmental precautions

Do not empty into drains or the aquatic environment. Explosion hazard.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the assimilated material according to the section on waste disposal.
Provide adequate ventilation.

SECTION 7: Handling and storage**Precautions for safe handling****Advice on safe handling**

Keep container tightly closed. In case of open handling equipment with built-in suction must be used.
Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.
Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

**Material Safety Data Sheet**

according to ANSI Z400.1-2004

X60 - B

Print date: 23.08.2012

Page 3 of 5

Requirements for storage rooms and vessels

Keep only in the original container at temperature not exceeding 30 °C. Keep locked up. Store in a place accessible only to authorized persons.

Advice on storage compatibility

Do not store together with: Material, rich in oxygen, oxidizing.

Further information on storage conditions

Keep container tightly closed. Store in a cool dry place.
Keep container in a well-ventilated place.

SECTION 8: Exposure controls/personal protection**Control parameters****Additional advice on limit values**

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N,N-dimethyl-p-toluidine:
Danger of cutaneous absorption.

Exposure controls**Occupational exposure controls**

In case of open handling equipment with built-in suction must be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Take off immediately all contaminated clothing. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Respiratory protection

Respiratory protection required in case of: high concentration. (AX) short term (acute).

Hand protection

Wear suitable gloves. Before using check leak tightness / impermeability.

Eye protection

Tightly sealed safety glasses.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties**

Physical state: liquid
Color: yellow
Odor: ester

Test method**Changes in the physical state**

Melting point: -50 °C
Boiling point: 101 °C
Flash point: 10 °C DIN 51755

Flammability

Solid: not determined

Explosive properties

Explosive dust-air mixtures may form.

Lower explosion limits: 2,1 vol. %
Upper explosion limits: 12,5 vol. %

**Material Safety Data Sheet**

according to ANSI Z400.1-2004

X60 - B

Print date: 23.08.2012

Page 4 of 5

Ignition temperature: not determined ASTM E 659

Autoignition temperature

Solid: not determined

Vapour pressure:
(at 20 °C) 40 hPaDensity (at 20 °C): 0,93 - 0,97 g/cm³Water solubility:
(at 20 °C) 295 g/L**Solubility in other solvents**

Soluble in: Acetone

Viscosity / dynamic:
(at 20 °C) 2 mPa·sVapour density:
(at 20 °C) >1**Other information****SECTION 10: Stability and reactivity**

Stability:

Possibility of Hazardous Reactions:

Conditions to avoid

Keep away from heat. Ignition hazard.

Hazardous decomposition products

This article doesn't contain dangerous substances or preparations intended to be released under normal or reasonably foreseeable conditions of use.

SECTION 11: Toxicological information**Information on toxicological effects****Acute toxicity**

Acute toxicity, oral.

Acute toxicity, inhalant.

Acute toxicity, dermal.

Irritation and corrosivity

Irritating to eyes. Following inhalation: Lung irritation. Coughing. shortage of breath. After skin contact: irritant.

Sensitizing effects

May cause sensitization by skin contact.

Severe effects after repeated or prolonged exposure

Danger of serious damage to health by prolonged exposure.

Additional information on tests

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information**Further information**

Do not empty into drains or the aquatic environment. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

Material Safety Data Sheet

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X60 - B

Print date: 23.08.2012

Page 5 of 5

Waste treatment methods**Advice on disposal**

Waste disposal according to official state regulations. Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.

Contaminated packaging

Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information**Marine transport**

UN number: UN1993
UN proper shipping name: FLAMMABLE LIQUID, N.O.S.
Transport hazard class(es): 3
Packing group: II
Hazard label: 3



Limited quantity: 1 L
EmS: F-E, S-E

Air transport

UN/ID number: UN1993
UN proper shipping name: FLAMMABLE LIQUID, N.O.S.
Transport hazard class(es): 3
Packing group: II
Hazard label: 3



Limited quantity Passenger: 1 L
IATA-packing instructions - Passenger: 305
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 307
IATA-max. quantity - Cargo: 60 L

SECTION 15: Regulatory information**U.S. Regulations****SECTION 16: Other information****Other data**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

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