

Safety Data Sheet
according to HPR, Schedule 1

Date of issue 08/31/2025

Version number 1

Revision: 08/01/2025

1 Identification

- **Product identifier**
- **Trade name: X60-B**
- **Other means of identification**
- **Article number: 1-X60-B**
- **Application of the substance / the mixture** Adhesives
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Hottinger Brüel & Kjaer GmbH
Im Tiefen See 45
D-64293 Darmstadt
Germany
Tel: +49 6151 803 0
E-Mail: info@hbkworld.com
<https://www.hbkworld.com>
- **Information department:**
Tel. +49(0)6131 19240
EMail support-esa@hbkworld.com
- **Emergency telephone number:**
Canada:
+1 800 332 1414 (Alberta, NW Territories);
+1 866 454 1212 (Saskatchewan);
+1 403 944 1414 (Calgary, outside Alberta, VOIP users)
Poison and Drug Information Services
Foothills Medical Centre
1403 29th Street N.W.
T2N 2T9 Calgary

National Capital Poison Center, U.S.A.:
1-800-222-1222
3201 New Mexico Ave Ste 310
20016 Washington, DC
USA
CHEMTREC: +1 703-741-5970 (24h emergency call).
Outside continental USA please call CHEMTREC at +1-703-527-3887 (R-calls are accepted).

2 Hazard identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable liquids – Category 2

H225 Highly flammable liquid and vapour.



GHS07

Skin Irritation - Category 2

H315 Causes skin irritation.

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Sensitization - skin – Category 1

H317 May cause an allergic skin reaction.

Specific target organ toxicity (single exposure) – Category 3

H335 May cause respiratory irritation.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Danger

· **Hazard-determining components of labeling:**

Methyl methacrylate

2,2'-ethylenedioxydiethyldimethacrylate

2-(N-methyl-p-toluidino)ethanol

· **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves / eye protection / face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

Please refer to additional labeling elements in Section 15 of this Safety Data Sheet, if applicable.

3 Composition/Information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below, possibly with undeclared additives.

· **Dangerous components:**

CAS: 80-62-6 RTECS: OZ 5075000	Methyl methacrylate	45 - 70% w/w *
CAS: 109-16-0	2,2'-ethylenedioxydiethyldimethacrylate	1 - 10% w/w *
CAS: 2842-44-6	2-(N-methyl-p-toluidino)ethanol	≥ 0.1 - < 1% w/w *

* Actual concentration ranges are withheld as a trade secret.

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4 First-aid measures

- **Description of first aid measures**
- **General information:**
Personal protection for the First Aider.
If symptoms occur or in case of doubt consult a doctor.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Remove contact lenses if possible.
Rinse opened eye for several minutes under running water.
In case of permanent aches and pains please go and see the doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting.
If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **After inhalation:**
Dizziness
Headache
- **After skin contact:** skin irritation
- **After eye contact:** eye irritation
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Foam, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:**
Water with full jet
The use of a water jet may cause the fire to spread by splashing the burning product.
- **Special hazards arising from the substance or mixture**
Formation of flammable mixtures of vapours with air possible.
Inhalation of combustion gases may cause serious health hazards.
During incomplete combustion carbon monoxide can be formed.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Remove goods in stock from incendiary zone, if possible.
Use water to keep fire exposed containers cool.

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6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Keep away from sources of ignition - No smoking.
- **For non-emergency personnel** Avoid contact with the product.
- **For emergency responders** Put on suitable personal protective equipment.
- **Environmental precautions:**
Do not allow to enter pits and cellars.
Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the collected material according to regulations.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Handling:**
Do not eat, drink, smoke or sniff while working.
Avoid direct contact with eyes, skin and clothing.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:**
Not required.
Store away from oxidizing agents.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** Please check the identified uses in chapter 1.

8 Exposure controls/ Personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
TLV: Threshold Limit Value

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80-62-6 Methyl methacrylate

EL	STEL: 100 ppm TWA: 50 ppm S(D)
EV	STEL: 100 ppm TWA: 50 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Wash contaminated clothing before re-use.
 - Do not eat, drink, smoke or sniff while working.
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the eyes and skin.
- **Breathing equipment:**
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
 - Filter Type A.
- **Protection of hands:**



Protective gloves

Only use chemical-protective gloves with CE-labeling of category III.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
 - Butyl rubber, BR
Recommended material thickness: 0.7 mm, breakthrough time: 60 min.
 - Nitrile rubber, NBR
Recommended material thickness: 0.5 mm, breakthrough time: 10 min.

- **Penetration time of glove material**
 - The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Safety goggles according to EN 166.

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- **Body protection:**



Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

· Physical state	Liquid
· Color:	Yellowish
· Odor:	Fruit-like
· Odor threshold:	Not determined.
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	~ 100 °C
· Flammability:	Highly flammable.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	10 °C
· Auto igniting:	Product is not selfigniting.
· Decomposition temperature:	Not determined.
· SADT	
· pH-value:	Not determined.
· Viscosity:	
· Kinematic at 20 °C:	90 s (DIN 53211/4)
· Dynamic:	Not determined.
· Solubility in / Miscibility with	
· Water:	Fully miscible.
· Segregation coefficient (n-octanol/water):	Not determined.
· Vapor pressure:	Not determined.
· Density at 20 °C:	1 g/cm ³
· Relative density	Not determined.
· Vapor density	Not determined.
· Particle characteristics	No further details.

- **Other information**

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Change in condition	
· Evaporation rate	Not determined.

10 Stability and reactivity

- **Reactivity** No further relevant information available.

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- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** All sources of ignition: heat, sparks, open flame, electrostatic discharges.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
None in case of intended use and storage in compliance with instructions.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

80-62-6 Methyl methacrylate

Oral	LDL0	7,900 mg/kg (Rat)
Dermal	LD0	> 5,000 mg/kg (Rabbit) (OECD 402)
Inhalative	LC50	29.8 mg/l/4h (Rat)

2842-44-6 2-(N-methyl-p-toluidino)ethanol

Oral	LD50	2,000 mg/kg (Rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

80-62-6	Methyl methacrylate	3
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- **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

80-62-6 Methyl methacrylate

EC50	69 mg/l/48h (Daphnia magna) (OECD 202)
EC50	> 110 mg/l/72h (Raphidocelis subcapitata)

2842-44-6 2-(N-methyl-p-toluidino)ethanol

EC50	7.03 mg/l/48h (aquatic invertebrates)
NOEC	4.6 mg/l/48h (Daphnia magna)

- **Persistence and degradability** No further relevant information available.
- **Other information:** There are no data available about the preparation.
- **Bioaccumulative potential** No further relevant information available.

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- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:**
Dispose of packaging according to regulations on the disposal of packagings.
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|---|---|
| <ul style="list-style-type: none"> · UN-Number · DOT/TDG, ADR, IMDG, IATA | <p style="margin-left: 20px;">UN1866</p> |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT/TDG · ADR · IMDG, IATA | <p style="margin-left: 20px;">Resin solution
1866 Resin solution, special provision 640D
RESIN SOLUTION</p> |

- **Transport hazard class(es)**
- **DOT/TDG (Transport dangerous goods):**



- | | |
|--|---|
| <ul style="list-style-type: none"> · Class · Label | <p style="margin-left: 20px;">3 Flammable liquids
No hazardous good
3</p> |
|--|---|

- **ADR**



- | | |
|--|--|
| <ul style="list-style-type: none"> · Class | <p style="margin-left: 20px;">3 (F1) Flammable liquids</p> |
|--|--|

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· Label	3
· IMDG	
	
· Class	3 Flammable liquids
· Label	3
· IATA	
	
· Class	3 Flammable liquids
· Label	Not Restricted 3
· Packing group	II
· DOT/TDG, ADR, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT/TDG	
· Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· ADR	
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E, S-E
· Stowage Category	B
· UN "Model Regulation":	UN 1866 RESIN SOLUTION, 3, II

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

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· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

80-62-6 Methyl methacrylate

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Canadian substance listings:**· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Non-Domestic Substances List (NDSL)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

All ingredients are listed.

· **Per- and polyfluoroalkyl substances (PFAS)**


None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:**

 **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
phone: (+49) 511 42079 - 0, reach@dekra.com.

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· **Kit-Components:**· **Date of preparation** 08/31/2025· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

· *** Data compared to the previous version altered.**