

**Safety Data Sheet**  
**according to HPR, Schedule 1**

Date of issue 08/31/2025

Version number 1

Revision: 08/21/2025

**1 Identification**

- **Product identifier**
- **Trade name: X60-A**
- **Other means of identification**
- **Article number: 1-X60-A**
- **Application of the substance / the mixture**  
Adhesives  
Hardening agent/ Curing agent
- **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](mailto:info@hbkworld.com)  
<https://www.hbkworld.com>
- **Information department:**  
Tel. +49(0)6131 19240  
EMail [support-esa@hbkworld.com](mailto: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**



Sensitization - skin – Category 1 H317 May cause an allergic skin reaction.

- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).

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- **Hazard pictograms**



GHS07

- **Signal word** Warning

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

Dibenzoyl peroxide

- **Hazard statements**

H317 May cause an allergic skin reaction.

- **Precautionary statements**

P261 Avoid breathing dust

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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: 1317-65-3 RTECS: EV 9580000	Calcium carbonate	80 - 100% w/w *
CAS: 94-36-0 RTECS: DM 8575000	Dibenzoyl peroxide	1 - 5% w/w *

\* Actual concentration ranges are withheld as a trade secret.

### 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.

- **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.

Do not rub eyes dry, the mechanical stress can cause additional cornea damages.

- **After swallowing:** Rinse out mouth and then drink plenty of water.

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- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Use fire fighting measures that suit the environment.  
The product itself does not burn.
- **For safety reasons unsuitable extinguishing agents:** None known.
- **Special hazards arising from the substance or mixture**  
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.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **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 drainage system, ground/soil and water bodies.
- **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Avoid dust generation.
- **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** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

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### 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

#### 1317-65-3 Calcium carbonate

EL	STEL: 20* mg/m <sup>3</sup> TWA: 10* 3** mg/m <sup>3</sup> *total dust; **respirable fraction
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#### 94-36-0 Dibenzoyl peroxide

EL	TWA: 5 mg/m <sup>3</sup>
EV	TWA: 5 mg/m <sup>3</sup>

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
 Immediately remove all soiled and contaminated clothing.  
 Wash hands before breaks and at the end of work.  
 Do not eat, drink, smoke or sniff while working.  
 Wash contaminated clothing before re-use.
- **Breathing equipment:** Not required.
- **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.  
 Nitrile rubber, NBR
- **Penetration time of glove material**  
 With solid dry substances permeation is not to be expected. Therefore the breakthrough-time for this protective glove has not been measured.  
 With a lamination strength of 0,11 mm the permeation time is > 480 min.

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· **Eye protection:**

Safety goggles according to EN 166.

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Physical state**

Solid

· **Color:**

White

· **Odor:**

Odorless

· **Odor threshold:**

Not determined.

· **Melting point/Melting range:**

Undetermined.

· **Boiling point/Boiling range:**

Undetermined.

· **Flammability:**

Not determined.

· **Explosion limits:**· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

Not applicable.

· **Auto igniting:**

Product is not selfigniting.

· **Decomposition temperature:**

Not determined.

· **SADT**· **pH-value:**

Not applicable.

· **Viscosity:**· **Kinematic:**

Not applicable.

· **Dynamic:**

Not applicable.

· **Solubility in / Miscibility with**· **Water:**

Insoluble.

· **Segregation coefficient (n-octanol/water):**

Not determined.

· **Vapor pressure:**

Not applicable.

· **Density at 20 °C:**2.3 - 2.8 g/cm<sup>3</sup>· **Relative density**

Not determined.

· **Vapor density**

Not applicable.

· **Particle characteristics**

No further details.

· **Other information**· **Appearance:**· **Form:**

Solid material

· **Important information on protection of health and environment, and on safety.**· **Ignition temperature:**

Product is not selfigniting.

· **Danger of explosion:**

Product does not present an explosion hazard.

· **Change in condition**· **Evaporation rate**

Not applicable.

### 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 and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **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:**

#### 1317-65-3 Calcium carbonate

Oral	LD50	6,450 mg/kg (Rat)
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#### 94-36-0 Dibenzoyl peroxide

Oral	LD50	> 5,000 mg/kg (Rat)
Inhalative	LC50	> 24.3 mg/l/4h (Rat)

- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:
- **Carcinogenic categories**

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

94-36-0	Dibenzoyl peroxide	3
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- **NTP (National Toxicology Program)**

None of the ingredients is listed.		
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### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

#### 1317-65-3 Calcium carbonate

LC50	> 56,000 mg/l/96h (Gambusia affinis)
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#### 94-36-0 Dibenzoyl peroxide

EC50 (static)	0.11 mg/l/48h (Daphnia magna) (OECD 202)
LC50	0.06 mg/l/96h (Oncorhynchus mykiss) (OECD 203)
EC50 (static)	0.0711 mg/l/72h (Raphidocelis subcapitata) (OECD 201)
NOEC (static)	0.02 mg/l/72h (Raphidocelis subcapitata) (OECD 201)
NOEC	0.0316 mg/l/96h (Oncorhynchus mykiss) (OECD 203)

- **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.
- **Mobility in soil** No further relevant information available.

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- **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.  
Non contaminated packagings can be used for recycling.  
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

- |  |  |
|--|--|
| · <b>UN-Number</b>   |  |
| · <b>DOT/TDG, ADR, IMDG, IATA</b>  | Void   |
| · <b>UN proper shipping name</b>   |  |
| · <b>DOT/TDG, ADR, ADN, IMDG, IATA</b>   | Void   |
| · <b>Transport hazard class(es)</b>  |  |
| · <b>DOT/TDG (Transport dangerous goods):</b>                                    |  |
| · <b>Class</b>   | Void<br>No hazardous good                            |
|  |  |
| · <b>ADR, ADN, IMDG</b>  |  |
| · <b>Class</b>   | Void   |
|  |  |
| · <b>IATA</b>  |  |
| · <b>Class</b>   | Void<br>Not Restricted                               |
| · <b>Packing group</b>   |  |
| · <b>DOT/TDG, ADR, IMDG, IATA</b>  | Void   |
| · <b>Environmental hazards:</b>  | Not applicable.                                      |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                                       | Not dangerous according to the above specifications. |
| · <b>Special precautions for user</b>  | Not applicable.                                      |

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<b>UN "Model Regulation":</b>	Void
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### 15 Regulatory information

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

· **Sara**

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

None of the ingredient is listed.

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

94-36-0 | Dibenzoyl peroxide

· **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)**

1317-65-3 | Calcium carbonate

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

None of the ingredients is listed.

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

94-36-0 | Dibenzoyl peroxide

· **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)

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*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.**

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