

Safety data sheet
according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

1 Identification

· **Product identifier**

· **Trade name:** **1-P250**

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

· **Product category** PC1 Adhesives, sealants

· **Application of the substance / the mixture** Adhesives

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

· **Manufacturer/Supplier:**

HOTTINGER BRUEL & KJAER UK LTD
Advanced Manufacturing Park Technology Centre
Brunel Way, Catcliffe, Rotherham
South Yorkshire, S60 5WG
United Kingdom
Phone: +44 (0) 1145 512230
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· **Informing department:**

Tel. +49(0)6131 19240
EMail support-esa@hbkworld.com

· **Emergency telephone number:**

Gift-Informationszentrum Nord, Göttingen
Poison Information Center, Göttingen
Tel.: +49 (0)551 19240
(German and English only)

United Kingdom:

National Poisons Information Service
Emergency number: +44 844 892 0111

Poisons Information Centre of Ireland:

+353 1 837 9964 for medical professionals
+353 1 809 2166 for public inquiries
CHEMTREC: +44 20 3807 3798 (24h emergency call).
Outside continental USA please call CHEMTREC at +1-703-527-3887 (R-calls are accepted).

2 Hazards identification

· **Classification of the substance or mixture**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

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- **Label elements**
- **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**
methenamine
- **Hazard statements**
H225 Highly flammable liquid and vapour.
H317 May cause an allergic skin reaction.
- **Precautionary statements**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground and bond container and receiving equipment.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- **Additional information:**
Please refer to further labelling elements in section 15 of this safety data sheet, if applicable.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of the substances listed below, possibly with undeclared additives.

- **Dangerous components:**

64-17-5	Ethanol	Flam. Liq. 2, H225	50 - 100%
100-97-0	methenamine	Flam. Sol. 2, H228; Skin Sens. 1, H317	≥ 1 - ≤ 10%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- **Description of first aid measures**
- **General information** Personal protection for the First Aider.
- **After inhalation**
Supply fresh air and call for doctor for safety reasons.
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact**
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

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- **After eye contact**
Rinse opened eye for several minutes under running water.
Remove contact lenses if possible.
In case of permanent aches and pains please go and see the doctor.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
In case of disorders get medical advice.
- **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**
Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents**
Water with a full water 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**
Inhalation of combustion gases may cause serious health hazards.
Can be released in case of fire:
Carbon monoxide and carbon dioxide
Nitrogen oxides (NOx)
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** Remove goods in stock from incendiary zone, if possible.

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:** Prevent material from reaching sewage system, holes and cellars.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
Dispose of the material collected 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 information on disposal.

7 Handling and storage

- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

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Keep empty containers away from heat and ignition sources.

- **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- **Handling**

Do not eat, drink or smoke 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 containers:** Store in cool location.

- **Information about storage in one common storage facility:**

Do not store together with oxidising and acidic materials.

- **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

WEL: workplace exposure limit

OEL: Occupational Exposure Limit

64-17-5 Ethanol

PEL (Singapore)	Long-term value: 1880 mg/m ³ , 1000 ppm
WSH (Singapore)	Long-term value: 1880 mg/m ³ , 1000 ppm
PEL (Malaysia)	Long-term value: 1880 mg/m ³ , 1000 ppm
WEL (Great Britain)	Long-term value: 1920 mg/m ³ , 1000 ppm

- **Additional information:** The lists that were valid during the compilation were used as basis.

- **Exposure controls**

- **Personal protective equipment**

- **General protective and hygienic measures**

Take off all contaminated clothing immediately.

Wash hands during breaks and at the end of the work.

Wash contaminated clothing before re-use.

Do not eat, drink or smoke while working.

Avoid contact with the eyes and skin.

- **Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

filter A/P.

- **Protection of hands:**



Protective gloves.

Only use chemical-protective gloves with CE-labelling of category III (EN 374).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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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: >480 min.

Nitrile rubber, NBR

Recommended material thickness: 0.4 mm, breakthrough time: >480 min.

- **Penetration time of glove material**

The exact break through 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.

- **Body protection:**



Protective work clothing.

9 Physical and chemical properties

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

- **General Information**

· Physical state	Liquid
· Colour:	Brown
· Odour:	Fruit-like
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Melting point/freezing point:	Not determined
· Initial boiling point and boiling range:	78 °C
· Flash point:	12 °C
· Evaporation rate	Not determined.
· Inflammability (solid, gaseous)	Highly flammable.
· Critical values for explosion:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapour pressure:	Not determined.
· Vapour density	Not determined.
· Density	Not determined
· Relative density	Not determined.
· Solubility in / Miscibility with	
· Water:	Fully miscible
· Partition coefficient: n-octanol/water:	Not determined.

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- | | |
|--|--|
| <ul style="list-style-type: none"> · Auto-ignition temperature: · Decomposition temperature: · SADT · Viscosity: · kinematic: · dynamic: · Particle characteristics | <p>Product is not selfigniting.
Not determined.</p> <p>Not determined.
Not determined.
No further details.</p> |
| <ul style="list-style-type: none"> · Other information · Appearance: · Form: · Important information on protection of health and environment, and on safety. · Self-inflammability: · Explosive properties: · Solvent content: · Organic solvents: | <p>Fluid</p> <p>Product is not selfigniting.
Product is not explosive. However, formation of explosive air/steam mixtures is possible.</p> <p>60.0 %</p> |

10 Stability and reactivity

- **Reactivity** The product is stable and does not alter during use and storage.
- **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, electostatic discharges.
- **Incompatible materials:**
Oxidizing agents.
acid
- **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:**

64-17-5 Ethanol

Oral	LD50	10,470 mg/kg (Rat) (OECD 401)
Dermal	LD50	> 20,000 mg/kg (rabbit)
Inhalative	LC50	> 114 mg/l/1h (mouse) (OECD 403)
	LC50	124.7 mg/l/4h (Rat) (OECD 403)

- **Respiratory or skin sensitisation** Sensitization possible by skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

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· Repeated dose toxicity

64-17-5 Ethanol

Oral	NOAEL (90d)	1,730 mg/kg bw/day (Rat)
	LOAEL (90d)	3,200 mg/kg bw/day (Rat) (OECD 408)
Inhalative	NOAEC (28d)	> 7,380 mg/m ³ /ppm u (Rat)

12 Ecological information

· Toxicity

· Aquatic toxicity:

64-17-5 Ethanol

LC50	14,200 mg/l (fish)
EC50 (static)	5,012 mg/l/48h (Ceriodaphnia dubia) (ASTM E729-80)
EC50 (static)	675 mg/l/96h (Chlorella vulgaris) (OECD 201)
EC50	275 mg/l/120h (Algae)
LC50 (dynamic)	15,300 mg/l/96h (Pimephales promelas) (US EPA E03-05)

- **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.
- **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 bodies 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 cleaned are to be disposed of in the same manner as the product.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

- **UN-Number**
- **ADR/RID, IMDG, IATA** UN1133

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· **UN proper shipping name**
 · **ADR/RID** 1133 ADHESIVES, special provision 640D
 · **IMDG, IATA** ADHESIVES

· **Transport hazard class(es)**
 · **ADR/RID**



· **Class** 3 (F1) Flammable liquids.
 · **Label** 3

· **IMDG**



· **Class** 3 Flammable liquids.
 · **Label** 3

· **IATA**



· **Class** 3 Flammable liquids.
 Not Restricted.
 · **Label** 3

· **Packing group**
 · **ADR/RID, IMDG, IATA** II

· **Environmental hazards:** Not applicable.

· **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR/RID**
 · **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

· **Transport category** 2
 · **Tunnel restriction code** D/E

· **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.

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· Kemler Number:	33
· EMS Number:	F-E,S-D
· Stowage Category	B
· UN "Model Regulation":	UN 1133 ADHESIVES, 3, II

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Poisons Act - Schedule 1**

None of the ingredients is listed.

· **Poisons Act - Schedule 2, Group II**

None of the ingredients is listed.

· **Health Products Act - First Schedule - Psychotropic Substances**

None of the ingredients is listed.

· **Chemical safety assessment**

· **Seveso category P5c FLAMMABLE LIQUIDS**

· **Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t**

· **Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t**

· **National regulations**

· **Water hazard class:**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

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

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H228 Flammable solid.

H317 May cause an allergic skin reaction.

· **Department issuing data specification sheet:**



This Safety Data Sheet has been drawn up in cooperation with:

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· **Kit-Components:**

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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Trade name: 1-P250*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**SVHC: Substances of Very High Concern**vPvB: very Persistent and very Bioaccumulative**Flam. Liq. 2: Flammable liquids – Category 2**Flam. Sol. 2: Flammable solids – Category 2**Skin Sens. 1: Skin sensitisation – Category 1*

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