

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 31.08.2025

Version number 1

Revision: 21.08.2025

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

· **1.1 Product identifier**

- **Trade name:** 1-P250
- **UFI:** HJ10-9065-900W-R039

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

- **Product category** PC1 Adhesives, sealants
- **Application of the substance / the mixture** Adhesives

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

- **Manufacturer/Supplier:**
HOTTINGER BRÜEL & KJÆR UK LTD
Advanced Manufacturing Park Technology Centre
Brunel Way, Catcliffe, Rotherham
South Yorkshire, S60 5WG
United Kingdom
Phone: +44 (0) 1145 512230
Email: info@uk.hbm.com

· **Informing department:**

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

· **1.4 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).

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

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



GHS07

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

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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.

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

Contains biocidal products: Ethanol

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Determination of endocrine-disrupting properties

The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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

Dangerous components:

CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43-X	Ethanol Flam. Liq. 2, H225	50 - 100%
CAS: 100-97-0 EINECS: 202-905-8 Index number: 612-101-00-2 Reg.nr.: 01-2119474895-20-X	methenamine Flam. Sol. 2, H228; Skin Sens. 1, H317	≥ 1 - ≤ 10%

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

SECTION 4: First aid measures

- **4.1 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.
- **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.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 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.
- **5.2 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)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** Remove goods in stock from incendiary zone, if possible.

SECTION 6: Accidental release measures

- **6.1 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.
- **6.2 Environmental precautions:** Prevent material from reaching sewage system, holes and cellars.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

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Dispose of the material collected according to regulations.

Ensure adequate ventilation.

· **6.4 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.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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.

· **7.2 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.

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

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

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

WEL: workplace exposure limit

OEL: Occupational Exposure Limit

64-17-5 Ethanol

WEL (Great Britain) Long-term value: 1920 mg/m³, 1000 ppm

· **DNELs**

64-17-5 Ethanol

Dermal	DNEL (worker, long-term, systemic)	400 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	380 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	114 mg/m ³ (human)

· **PNECs**

64-17-5 Ethanol

PNEC aqua (fresh water)	0.96 mg/L (.)
PNEC Water (marine water)	0.79 mg/L (.)
PNEC STP - Sewage Treatment Plant	580 mg/L (.)

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PNEC soil	0.63 mg/kg soil dw (.)
PNEC sediment (fresh water)	3.6 mg/kg sedim. dw (.)
PNEC sediment (marine water)	2.9 mg/kg sedim. dw (.)
PNEC Water (sporadic release)	2.75 mg/L (.)
PNEC oral	380 mg/kg food (.)

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

· **8.2 Exposure controls**

· **Individual protection measures, such as 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.

· **Hand protection**



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. 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/face protection**



Safety goggles according to EN 166.

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· **Body protection:**

Protective work clothing.

SECTION 9: Physical and chemical properties

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

Liquid

· **Colour:**

Brown

· **Odour:**

Fruit-like

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Not determined

· **Boiling point or initial boiling point and boiling range**

78 °C (64-17-5 Ethanol)

· **Flammability**

Highly flammable.

· **Lower and upper explosion limit**· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

12 °C

· **Auto-ignition temperature:**

Product is not selfigniting.

· **Decomposition temperature:**

Not determined.

· **SADT**· **pH**

Not determined.

· **Viscosity:**· **Kinematic viscosity**

Not determined.

· **dynamic:**

Not determined.

· **Solubility**· **Water:**

Fully miscible

· **Partition coefficient n-octanol/water (log value)**

Not determined.

· **Vapour pressure:**

Not determined.

· **Density and/or relative density**· **Density**

Not determined

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

· **Particle characteristics**

No further details.

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

Fluid

· **Important information on protection of health and environment, and on safety.**· **Self-inflammability:**

Product is not selfigniting.

· **Explosive properties:**

Product is not explosive. However, formation of explosive air/steam mixtures is possible.

· **Solvent content:**· **Organic solvents:**

60.0 %

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· Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** The product is stable and does not alter during use and storage.
- **10.2 Chemical stability**
- **Information on the shelf life** The product is stable.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** All sources of ignition: heat, sparks, open flame, electrostatic discharges.
- **10.5 Incompatible materials:**
Oxidizing agents.
acid
- **10.6 Hazardous decomposition products:**
None in case of intended use and storage in compliance with instructions.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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)

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	LC50	124.7 mg/l/4h (Rat) (OECD 403) Vapour
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **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.
- **Additional toxicological information:**

- **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)

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 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)

- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** There are no data available about the preparation.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 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.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

The waste code numbers mentioned are recommendations based on the probable use of the product.

European waste catalogue

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 99	wastes not otherwise specified
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by hazardous substances
HP3	Flammable

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.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, IMDG, IATA UN1133

14.2 UN proper shipping name

ADR/RID 1133 ADHESIVES, special provision 640D
IMDG, IATA ADHESIVES

14.3 Transport hazard class(es)

ADR/RID



Class 3 (F1) Flammable liquids.
Label 3

IMDG



Class 3 Flammable liquids.

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· Label	3
· IATA	
	
· Class	3 Flammable liquids. Not Restricted.
· Label	3
· 14.4 Packing group	
· ADR/RID, IMDG, IATA	II
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Kemler Number:	33
· EMS Number:	F-E,S-D
· Stowage Category	B
· 14.7 Maritime transport in bulk according to IMO instruments	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
· UN "Model Regulation":	UN 1133 ADHESIVES, 3, II

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **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
- **REGULATION (EC) No 1907/2006 ANNEX XVII**
Taking into account the intended use as specified in section 1, the relevant entries from Annex XVII are carried out.

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Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

100-97-0 methenamine

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations**

· **Water hazard class:**

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

None of the ingredients is contained.

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

SECTION 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.

This safety data sheet meets the requirements of Regulation (EU) 2015/830 and 2020/878 amending Annex II of Regulation (EC) 1907/2006.

· **Relevant phrases**

The phrases specified here are no labelling elements for the product but repeat the properties of the ingredients from section 3.

H225 Highly flammable liquid and vapour.

H228 Flammable solid.

H317 May cause an allergic skin reaction.

· **Classification according to Regulation (EC) No 1272/2008 Calculation method**

· **Department issuing data specification sheet:**



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

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· **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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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*CAS: Chemical Abstracts Service (division of the American Chemical Society)**DNEL: Derived No-Effect Level (REACH)**PNEC: Predicted No-Effect Concentration (REACH)**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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