

PU140

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1. Identification

Product identifier

PU140

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

Use of the substance/mixture

Paints and varnishes

Details of the supplier of the safety data sheet

Company name: Hottinger Brüel & Kjaer
Street: Im Tiefen See 45
Place: D-64293 Darmstadt
Telephone: +49 (0)6151 803-0
Internet: www.hbm.com
Responsible Department: support@hbm.com

Emergency telephone number: +49-30-18412-0

2. Hazard identification

Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 3; H226
Carc. 1B; H350
Aquatic Chronic 4; H413

Full text of hazard statements: see SECTION 16.

Label elements

Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:



Hazard statements

H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H350 May cause cancer.
H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements

P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Special labelling of certain mixtures

Restricted to professional users.
Restricted to professional users.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

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Pictograms:**Hazard statements**

H350-H413

Precautionary statements

P201-P280

Other hazards

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

3. Composition/information on ingredients**Mixtures****Hazardous components**

CAS No	Chemical name	Quantity
90622-57-4	Isoparaffinische Kohlenwasserstoff (Alkane, C9-12-iso-)	25 - 50 %
96-29-7	butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime	< 1 %
136-52-7	Cobaltoctoat	< 0,25 %

Full text of H statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
90622-57-4	292-459-0	Isoparaffinische Kohlenwasserstoff (Alkane, C9-12-iso-)	25 - 50 %
		oral: LD50 = >10000 mg/kg	
96-29-7	202-496-6	butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime	< 1 %
		dermal: ATE 1100 mg/kg; oral: ATE 100 mg/kg	

Further Information

No information available.

4. First-aid measures**Description of first aid measures****General information**

Remove affected person from the danger area and lay down. If unconscious but breathing normally, place in recovery position and seek medical advice. First aider: Pay attention to self-protection!

After inhalation

When in doubt or if symptoms are observed, get medical advice.

Provide fresh air.

In case of respiratory tract irritation, consult a physician.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting.

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Most important symptoms and effects, whether acute or delayed

No information available.

Indication of immediate medical attention and special treatment needed

No information available.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing media**

Water spray jet, Dry extinguishing powder, Foam

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the hazardous product

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

Highly flammable.

Vapours can form explosive mixtures with air.

Special protective equipment and precautions for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Co-ordinate fire-fighting measures to the fire surroundings.

Additional information

No information available.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures****General advice**

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Use personal protection equipment. Do not allow to enter into surface water or drains. Treat the recovered material as prescribed in the section on waste disposal. Provide adequate ventilation.

Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow uncontrolled discharge of product into the environment.

Methods and material for containment and cleaning up**Other information**

Take up mechanically, placing in appropriate containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

7. Handling and storage**Precautions for safe handling****Advice on safe handling**

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

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

Advice on protection against fire and explosion

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

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Further information on handling

Wear personal protection equipment (refer to section 8). Do not empty into drains. When using do not eat, drink, smoke, sniff.

Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed and in a well-ventilated place.
Do not allow to enter into surface water or drains.
Do not allow uncontrolled discharge of product into the environment.

Hints on joint storage

No information available.

Further information on storage conditions

No information available.

8. Exposure controls/Personal protection**Control parameters****Additional advice on limit values**

No information available.

Exposure controls**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.
In use, may form flammable/explosive vapour-air mixture.
Use explosion-proof electrical equipment.
Use non-sparking tools.

Protective and hygiene measures

When using do not eat or drink.
Do not breathe gas/fumes/vapour/spray.
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.
Wear suitable protective clothing, gloves and eye/face protection.
Draw up and observe skin protection programme.

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. EN ISO 374
The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Thickness of the glove material: $\geq 0,7\text{mm}$
Suitable gloves type NBR (Nitrile rubber)
Breakthrough time: $>480\text{min}$
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Used working clothes should not be worn outside the work area.
Separate storage of work clothes.
Wear anti-static footwear and clothing

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Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filtering device (full mask or mouthpiece) with filter: a

Environmental exposure controls

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical state:	Liquid	
Colour:	transparent	
Odour:	Solvents	
pH-Value:		not determined

Changes in the physical state

Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		150 °C
Sublimation point:		not determined
Softening point:		not determined
Pour point:		not determined
not determined:		

Flash point:		57 °C
Sustaining combustion:		No data available

Flammability

Solid/liquid:		not determined
Gas:		not determined

Explosive properties

No information available.

Lower explosive limits:		0,8 vol. %
Upper explosive limits:		7 vol. %
Auto-ignition temperature:		200 °C

Self-ignition temperature

Solid:		not determined
Gas:		not determined

Decomposition temperature:		not determined
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Oxidizing properties

No information available.

Vapour pressure: (at 20 °C)		<1 hPa
Vapour pressure: (at 50 °C)		not determined
Density (at 20 °C):		0,89 g/cm ³
Bulk density:		not determined
Water solubility:		not determined

Solubility in other solvents

not determined

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Partition coefficient n-octanol/water:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic: (at 20 °C)	55 mm ² /s
Flow time:	not determined
Relative vapour density:	not determined
Evaporation rate:	not determined
Solvent separation test:	not determined
Solvent content:	51 %

Other information

Solid content:	48,77 Gew.-%
No information available.	

10. Stability and reactivity**Reactivity**

No information available.

Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Conditions to avoid

No information available.

Incompatible materials

No information available.

Hazardous decomposition products

No information available.

Further information

No information available.

11. Toxicological information**Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No information available.

Acute toxicity

Based on available data, the classification criteria are not met.

No information available.

ATEmix calculated

ATE (oral) 11111,1 mg/kg

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CAS No	Chemical name				
	Route of exposure	Dose	Species	Source	Method
90622-57-4	Isoparaffinische Kohlenwasserstoff (Alkane, C9-12-iso-)				
	oral	LD50 >10000 mg/kg	Rat	JAT	
96-29-7	butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime				
	oral	ATE 100 mg/kg			
	dermal	ATE 1100 mg/kg			

Irritation and corrosivity

Based on available data, the classification criteria are not met.
No information available.

Sensitizing effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer. (butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime)
Germ cell mutagenicity: 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.
No information available.

STOT-repeated exposure

Based on available data, the classification criteria are not met.
No information available.

Aspiration hazard

Based on available data, the classification criteria are not met.
No information available.

Specific effects in experiment on an animal

No information available.

Additional information on tests

No information available.

Practical experience

No information available.

Information on other hazards**Other information**

No information available.

Further information

No information available.

12. Ecological information**Persistence and degradability**

No information available.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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Other adverse effects

No information available.

13. Disposal considerations**Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

14. Transport information**Canadian TDG**

UN number or ID number: UN 1263
Proper shipping name: Paint
Hazard classes: 3
Packing group: I
 Hazard label: 3
 Limited quantity: 0.5L

**Marine transport (IMDG)**

UN number: UN 1263
United Nations proper shipping name: Paint
Transport hazard class(es): 3
Packing group: I
 Hazard label: 3



Special Provisions: 163, 367
 Limited quantity: 500 mL
 Excepted quantity: E3
 EmS: F-E, S-E

Other applicable information (marine transport)

No information available.

Air transport (ICAO-TI/IATA-DGR)

UN number: UN 1263
United Nations proper shipping name: Paint
Transport hazard class(es): 3
Packing group: I
 Hazard label: 3



Special Provisions: A3 A72 A192

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Limited quantity Passenger:	Forbidden	
Passenger LQ:	Forbidden	
Excepted quantity:	E3	
IATA-packing instructions - Passenger:		351
IATA-max. quantity - Passenger:		1 L
IATA-packing instructions - Cargo:		361
IATA-max. quantity - Cargo:		30 L

Other applicable information (air transport)

No information available.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Other applicable information

No information available.

15. Regulatory information

Canadian regulations

16. Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,3,6.

Classification for mixtures and used evaluation method according to GHS

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Carc. 1B; H350	Calculation method
Aquatic Chronic 4; H413	Calculation method

Relevant H statements (number and full text)

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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