

# Safety Data Sheet

according to UK REACH Regulation



PU140

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

### 1.1. Product identifier

PU140

UFI: VS00-Q0YK-J00E-SWUQ

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Paints and varnishes

### 1.3. 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

**1.4. Emergency telephone number:** +49-30-18412-0

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GB CLP Regulation

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

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### GB CLP Regulation

##### Hazard components for labelling

butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime

**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/hearing protection.

##### Special labelling of certain mixtures

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Restricted to professional users.

Restricted to professional users.

Labelling of packages where the contents do not exceed 125 ml

Signal word:

Danger

Pictograms:



Hazard statements

H350-H413

Precautionary statements

P201-P280

## 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
90622-57-4	Isoparaffinische Kohlenwasserstoff (Alkane, C9-12-iso-)	25 - 50 %		
	292-459-0			
	Flam. Liq. 3, Asp. Tox. 1, Aquatic Chronic 4; H226 H304 H413			
96-29-7	butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime	< 1 %		
	202-496-6	616-014-00-0		
	Carc. 1B, Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, STOT SE 1, STOT SE 3, STOT RE 2; H350 H301 H312 H315 H318 H317 H370 H336 H373			
136-52-7	Cobaltoctoat	< 0,25 %		
	205-250-6			
	Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 3; H319 H317 H400 H412			

Full text of H and EUH 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.

## SECTION 4: First aid measures

### 4.1. 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!

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## 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.

## 4.2. Most important symptoms and effects, both acute and delayed

No information available.

## 4.3. Indication of any immediate medical attention and special treatment needed

No information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray jet, Dry extinguishing powder, Foam

#### Unsuitable extinguishing media

Full water jet

### 5.2. Special hazards arising from the substance or mixture

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Highly flammable.  
Vapours can form explosive mixtures with air.

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.  
Co-ordinate fire-fighting measures to the fire surroundings.

### Additional information

No information available.

## SECTION 6: Accidental release measures

### 6.1. 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.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.  
Do not allow uncontrolled discharge of product into the environment.

### 6.3. 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).

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## 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. 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.

#### 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.

### 7.2. 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.

### 7.3. Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Additional advice on limit values

No information available.

### 8.2. 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.

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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:  $\geq 0,7$ mm

Suitable gloves type NBR (Nitrile rubber)

Breakthrough time:  $\geq 480$  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

## 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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	transparent
Odour:	Solvents
pH-Value:	not determined
<b>Changes in the physical state</b>	
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
<b>Flammability</b>	
Solid/liquid:	not determined
Gas:	not determined
<b>Explosive properties</b>	
No information available.	
Lower explosion limits:	0,8 vol. %
Upper explosion limits:	7 vol. %

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Auto-ignition temperature: 200 °C

### Self-ignition temperature

Solid: not determined

Gas: not determined

Decomposition temperature: not determined

### 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<sup>3</sup>

Bulk density: not determined

Water solubility: not determined

### Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic:  
(at 20 °C) 55 mm<sup>2</sup>/s

Flow time: not determined

Relative vapour density: not determined

Evaporation rate: not determined

Solvent separation test: not determined

Solvent content: 51 %

## 9.2. Other information

Solid content: 48,77 Gew.-%

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No information available.

### Further information

No information available.

## SECTION 11: Toxicological information

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## 11.1. Information on hazard classes as defined in GB CLP Regulation

### 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

CAS No	Chemical name				
	Exposure route	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.

### Sensitising 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.

## 11.2. Information on other hazards

### Other information

No information available.

### Further information

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
96-29-7	butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime					
	Acute crustacea toxicity	EC50	750 mg/l	48 h	Daphnia magna	

## 12.2. Persistence and degradability

No information available.

## 12.3. Bioaccumulative potential

No information available.

## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
96-29-7	butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime	0,63

## 12.4. Mobility in soil

No information available.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

No information available.

## 12.6. 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.

## 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

### Land transport (ADR/RID)

**14.1. UN number:** UN 1263

**14.2. UN proper shipping name:** Paint

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** I

Hazard label: 3



Classification code: F1

Special Provisions: 163 367 650

Limited quantity: 500 mL

Excepted quantity: E3

Transport category: 1

Hazard No: 33

Tunnel restriction code: D/E

### Other applicable information (land transport)

No information available.



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## Inland waterways transport (ADN)

**14.1. UN number:** UN 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** I  
Hazard label: 3



Classification code: F1  
Special Provisions: 163 367 650  
Limited quantity: 500 mL  
Excepted quantity: E3

### Other applicable information (inland waterways transport)

No information available.

## Marine transport (IMDG)

**14.1. UN number:** UN 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. 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)

**14.1. UN number:** UN 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** I  
Hazard label: 3



Special Provisions: A3 A72 A192  
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

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## Other applicable information (air transport)

No information available.

## 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

## 14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

## Other applicable information

No information available.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2010/75/EU (VOC):	0,8 % (7,12 g/l)
2004/42/EC (VOC):	40,8 % (363,12 g/l)
Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS

#### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water hazard class (D): 1 - slightly hazardous to water

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 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 GB CLP Regulation

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 and EUH 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.

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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.)*