

## SAFETY DATA SHEET

According to REACH Regulation (EC) No  
1907/2006, as amended by UK REACH  
Regulations SI 2019/758



We create chemistry

### A-H-410 1L 1L Steel drums

Version	Revision Date:	SDS Number:	Date of last issue: 14.11.2024
3.0	02.03.2025	000000000050794 081	Date of first issue: 03.05.2024

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

### 1.1 Product identifier

Trade name : A-H-410 1L 1L Steel drums A-H-410 1L 1L Steel drums

Product code : 000000000050794081

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

Use of the : Spraying  
Substance/Mixture : hardener

### 1.3 Details of the supplier of the safety data sheet

**Company:**

BASF Coatings GmbH  
Postfach 6123  
48136 Münster  
Deutschland

**Contact address:**

BASF plc  
4th and 5th Floors, 2 Stockport Exchange  
Railway Road, Stockport, SK1 3GG  
United Kingdom

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Telephone: +44 161 475 3000  
E-mail address: product-safety-uk-and-ireland@basf.com

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#### 1.4 Emergency telephone

International emergency number:  
Telephone: +49 180 2273-112

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Flammable liquids, Category 3	H226: Flammable liquid and vapor.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.

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#### 2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :



Signal Word : Warning

Hazard Statements :

- H226 Flammable liquid and vapor.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.

Precautionary Statements :

**Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P261 Avoid breathing mist or vapors.

P280 Wear protective gloves/ protective clothing/  
eye protection/ face protection/ hearing  
protection.

#### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off  
immediately all contaminated clothing. Rinse  
skin with water.

P304 + P340 + P312 IF INHALED: Remove person to  
fresh air and keep comfortable for breathing.  
Call a POISON CENTER/ doctor if you feel  
unwell.

P370 + P378 In case of fire: Use dry sand, dry chemical  
or alcohol-resistant foam to extinguish.

Hazardous ingredients which must be listed on the label:

HDI-Oligomer(Trimer)

isophorone diisocyanate (IPDI) polymer

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2-heptanone

1,6-hexamethylene diisocyanate

### Additional Labeling

EUH204      Contains isocyanates. May produce an allergic reaction.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature      :    organic solvent  
polyisocyanate

### Components

Chemical name	CAS-No.	Classification	Concentratio
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	EC-No. Index-No. Registration number		n (% w/w)
HDI-Oligomer(Trimer)	28182-81-2 500-060-2 01-2119485796-17	Acute Tox. 4; H332  Skin Sens. 1; H317  STOT SE 3; H335  (Respiratory system)	>= 75 - <= 100
isophorone diisocyanate (IPDI) polymer	53880-05-0 500-125-5 01-2119488734-24	Skin Sens. 1; H317  STOT SE 3; H335  (Respiratory system)	>= 5 - < 7
2-heptanone	110-43-0	Flam. Liq. 3; H226	>= 5 - < 7

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	203-767-1 606-024-00-3 UK-20- 0537843089-5- 0000	Acute Tox. 4; H302  Acute Tox. 4; H332  STOT SE 3; H336  (Central nervous system)	
Naphtha (petroleum),hydrotreated light, Kp > 140oC	64742-52-5 265-155-0 649-465-00-7 01-2119471843-32	Flam. Liq. 3; H226  STOT SE 3; H336  (Central nervous system)  Asp. Tox. 1; H304  Aquatic Chronic 3; H412	>= 3 - < 5
xylene	1330-20-7 215-535-7 601-022-00-9	Flam. Liq. 3; H226  Acute Tox. 4; H332	>= 2.5 - < 3

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	UK-20-2749242067-7-0000	Acute Tox. 4; H312	
	UK-20-9702550300-0-0000	Skin Irrit. 2; H315	
	UK-20-0537843089-5-0000	Eye Irrit. 2; H319	
	UK-20-9642318150-0-0000	STOT SE 3; H335	
		(Respiratory system)	
		STOT RE 2; H373	
		(Kidney, Liver, Central nervous system)	
		Asp. Tox. 1; H304	
		Aquatic Chronic 3; H412	
1-methoxy-2-propylacetate	108-65-6 203-603-9 607-195-00-7	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous	>= 1 - < 2

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	UK-20-9702550300-0-0000	system)	
	UK-20-0537843089-5-0000		
	UK-20-9642318150-0-0000		
1,6-hexamethylene diisocyanate	822-06-0 212-485-8 615-011-00-1 UK-20-0537843089-5-0000 UK-20-9642318150-0-0000	Acute Tox. 4; H302  Acute Tox. 1; H330  Skin Irrit. 2; H315 Eye Irrit. 2; H319  Resp. Sens. 1; H334  Skin Sens. 1; H317	< 0.1

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		STOT SE 3; H335 (Respiratory system) <hr/> specific concentration limit Resp. Sens. 1; H334 >= 0.5 % Skin Sens. 1; H317 >= 0.5 %	
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For explanation of abbreviations see section 16.

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#### SECTION 4: First aid measures

##### 4.1 Description of first-aid measures

General advice : First aid personnel should pay attention to their own safety.  
If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).  
Immediately remove contaminated clothing.  
In all cases of doubt, or when symptoms persist, seek medical attention.  
Move out of dangerous area.  
Never give anything by mouth to an unconscious person.

If inhaled : If symptoms persist, call a physician.  
If breathed in, move person into fresh air.  
If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact : Call a physician immediately.  
In case of contact, immediately flush skin with plenty of

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water for at least 15 minutes while removing  
contaminated clothing and shoes.

In case of eye contact : Immediately wash affected eyes for at least 15 minutes  
under running water with eyelids held open, consult an  
eye specialist.

Call a physician immediately.

If easy to do, remove contact lens, if worn.

If swallowed : Do not induce vomiting due to aspiration hazard.

Keep at rest.

If symptoms persist, call a physician or Poison Control  
Center immediately.

Rinse mouth with water.

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

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Symptoms : Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Risks : May cause an allergic skin reaction.  
Harmful if inhaled.  
May cause respiratory irritation.

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

Treatment : No known specific antidote.  
Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray jet  
Dry powder

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Alcohol-resistant foam

Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire fighting : Fire will produce dense black smoke containing hazardous combustion products (see section 10).

Hazardous combustion products : Nitrogen oxides (NO<sub>x</sub>)

#### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

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Further information : In the event of fire, cool tanks with water spray.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid breathing vapours.

Keep away from sources of ignition.

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

For non-emergency personnel:

For emergency responders:

Use personal protective equipment.

Ensure adequate ventilation, especially in confined

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areas.

#### 6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains inform respective authorities.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth. Place in a suitable container. The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises (by volume): ethanol or isopropyl alcohol (50 parts); water (45 parts); concentrated ammonia solution (5 parts). A non-flammable alternative is: sodium carbonate (5 parts);

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water (95 parts). Add the same decontaminant to the remnants and let stand for several days until no further reaction in non-sealed container. Once this stage is reached, close container and dispose according to the waste regulations (see section 13).

Ensure adequate ventilation.

#### 6.4 Reference to other sections

For disposal considerations see section 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.

When operators, whether spraying or not, have to work

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inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

Open drum carefully as content may be under pressure.

Do not breathe vapors or spray mist.

Protect from moisture.

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that

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operators should wear antistatic clothing and footwear. The relevant fire protection measures should be noted. Use explosion-proof equipment. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Keep away from heat. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Exercise caution when opening to allow pressure release. Precautions should be taken to minimise exposure to atmospheric humidity or water: carbon dioxide will be formed which in closed containers can result in pressurisation. Always keep in containers of same material as the original one. Observe label

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precautions. Store protected against freezing.

Advice on common storage : Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

Recommended storage temperature : 5.00 - 35.00 °C

Packaging material : Suitable material: Carbon steel (Iron), tinned carbon steel (Tinplate)

#### 7.3 Specific end use(s)

Specific use(s) : Please refer to the technical leaflet for further information.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
HDI-Oligomer(Trimer)	28182-81-2	TWA	0.02 mg/m <sup>3</sup> (NCO)	GB EH40
	Further information: Capable of causing occupational asthma.			
		STEL	0.07 mg/m <sup>3</sup> (NCO)	GB EH40
	Further information: Capable of causing occupational asthma.			
2-heptanone	110-43-0	STEL	100 ppm 475 mg/m <sup>3</sup>	GB EH40
	Further information: Can be absorbed through the skin. The assigned			

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	substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		TWA	50 ppm 237 mg/m <sup>3</sup>	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		TWA	50 ppm 238 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 475 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
xylene	1330-20-7	TWA	50 ppm	GB EH40

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			220 mg/m <sup>3</sup>	
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	100 ppm 441 mg/m <sup>3</sup>	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		TWA	50 ppm 221 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			

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1-methoxy-2-propylacetate	108-65-6	TWA	50 ppm 274 mg/m3	GB EH40
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
		STEL	100 ppm 548 mg/m3	GB EH40
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.				
		STEL	100 ppm 550 mg/m3	2000/39/EC
Further information: Identifies the possibility of significant uptake through the skin, Indicative				
		TWA	50 ppm 275 mg/m3	2000/39/EC
Further information: Identifies the possibility of significant uptake				

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	through the skin, Indicative			
1,6-hexamethylene diisocyanate	822-06-0	TWA	0.02 mg/m <sup>3</sup> (NCO)	GB EH40
Further information: Capable of causing occupational asthma.				
		STEL	0.07 mg/m <sup>3</sup> (NCO)	GB EH40
Further information: Capable of causing occupational asthma.				

**Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
HDI-Oligomer(Trimer)	28182-81-2	isocyanate-derived diamine (Isocyanates): 1 µmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT

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xylene	1330-20-7	methyl hippuric acid: 650 Millimoles per mole creatinine (Urine)	After shift	GB EH40 BAT
1,6-hexamethylene diisocyanate	822-06-0	isocyanate-derived diamine (Isocyanates): 1 µmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT

#### 8.2 Exposure controls

##### Engineering measures

Ensure adequate ventilation.

##### Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

Required when there is a risk of eye contact.

Hand protection

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: Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. butyl rubber gloves - material thickness: 0.5 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Preventive skin protection Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation

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- time according to EN ISO 374-1)
- Skin and body protection : chemical-resistant disposable coveralls
- Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.
- Respiratory protection : Suitable respiratory equipment:
- full face mask with AB2P3 class combination filter
- When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
- Protective measures : Do not breathe vapour/spray.
- Eye wash fountains and safety showers must be easily accessible.
- Under cool dry conditions, it is possible for the isocyanate to remain unreacted in the paint film for up to 30 hours after application.

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Respiratory protective equipment should be worn by  
spray booth operatives.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and  
safety practice.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Color	:	colorless
Odor	:	ketone-like
pH	:	substance/mixture reacts with water
Melting point/ range	:	not determined
Boiling point/boiling range	:	116.00 °C

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Flash point : 42 °C  
Method: ISO 3679

Evaporation rate : not determined

Upper explosion limit /  
Upper flammability limit : not determined

Lower explosion limit /  
Lower flammability limit : > 35.0 g/m<sup>3</sup>

Vapor pressure : 20.0000 hPa (20 °C)  
  
(50 °C)  
not determined

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Relative vapor density : Heavier than air.

Density : 1.090 g/cm<sup>3</sup>

Solubility(ies)  
Water solubility : not determined

Partition coefficient: n-  
octanol/water : not applicable for mixtures

Autoignition temperature : > 200 °C

Decomposition  
temperature : No decomposition if stored and handled as  
prescribed/indicated.

Viscosity  
Viscosity, dynamic : No data available

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Viscosity, kinematic : 195.5 mm<sup>2</sup>/s (23 °C)

(40 °C)

not determined

Flow time : > 30 s

Cross section: 6 mm

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

#### 9.2 Other information

Flammability (liquids) : Flammable liquid and vapour.

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Self-heating substances : The substance or mixture is not classified as self heating.

Metal corrosion rate : Not corrosive to metals.

Particle size : The substance / product is marketed or used in a non solid or granular form.

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No hazardous reactions when stored and handled according to instructions.

### 10.4 Conditions to avoid

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Conditions to avoid : Avoid direct contact with water.  
Avoid direct sunlight.  
Protect from frost.  
Heat, flames and sparks.  
Heat.

#### 10.5 Incompatible materials

Materials to avoid : Keep away from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts with water resulting in evolution of carbon dioxide. In closed containers, pressure build up could result in distortion, blowing and in extreme cases bursting of the container.

#### 10.6 Hazardous decomposition products

Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen cyanide (hydrocyanic acid)  
Isocyanates

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Harmful if inhaled.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 12.85 mg/l  
Exposure time: 4 h

Test atmosphere: vapor

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

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#### Components:

##### 2-heptanone:

Acute oral toxicity : LD50 (Rat): 1,600 mg/kg

Acute inhalation toxicity : LC50 (Rat): 16.7 mg/l  
Exposure time: 4 h

Test atmosphere: vapor

#### **Skin corrosion/irritation**

Not classified due to lack of data.

#### **Serious eye damage/eye irritation**

Not classified due to lack of data.

#### **Respiratory or skin sensitization**

##### **Skin sensitization**

May cause an allergic skin reaction.

##### **Respiratory sensitization**

Not classified due to lack of data.

##### **Germ cell mutagenicity**

Not classified due to lack of data.

##### **Carcinogenicity**

Not classified due to lack of data.

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#### **Reproductive toxicity**

Not classified due to lack of data.

#### **STOT-single exposure**

May cause respiratory irritation.

#### **STOT-repeated exposure**

Not classified due to lack of data.

#### **Aspiration toxicity**

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

#### **Product:**

No aspiration toxicity classification

---

## SECTION 12: Ecological information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

#### **Components:**

#### **HDI-Oligomer(Trimer):**

Partition coefficient: n- : log Pow: 9.81 (25 °C)  
octanol/water

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#### 2-heptanone:

Partition coefficient: n-  
octanol/water

: log Pow: 2.26 (30 °C)

pH: 7

Method: Regulation (EC) No. 440/2008, Annex, A.8

GLP: yes

#### xylene:

Partition coefficient: n-  
octanol/water

: log Pow: 3.12 - 3.20 (25 °C)

GLP: no

Remarks: Information taken from reference works and  
the literature.

#### 1-methoxy-2-propylacetate:

Partition coefficient: n-  
octanol/water

: log Pow: 1.2 (20 °C)

pH: 6.8

Method: OECD Test Guideline 117

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GLP: yes

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

**Product:**

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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Product : Dispose of isocyanate waste in dry containers and never mix together with other wastes (reaction, dangerous pressure build up).

Do not discharge into drains/surface waters/groundwater.

Observe national and local legal requirements.

Contaminated packaging : Containers which are not properly emptied must be disposed pursuant to Directive 2008/98/EC

Residues in empty containers should be neutralised with decontaminant (see section 6).

Packaging that is not properly emptied must be disposed of as the unused product.

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#### SECTION 14: Transport information

##### 14.1 UN number

ADN : UN 1263

ADR : UN 1263

RID : UN 1263

IMDG : UN 1263

IATA : UN 1263

##### 14.2 UN proper shipping name

ADN : PAINT

ADR : PAINT

RID : PAINT

IMDG : PAINT

IATA : PAINT

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#### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
<b>ADN</b>	: 3	
<b>ADR</b>	: 3	
<b>RID</b>	: 3	
<b>IMDG</b>	: 3	
<b>IATA</b>	: 3	

#### 14.4 Packing group

<b>ADN</b>	
Packing group	: III
Classification Code	: F1
Hazard Identification Number	: 30
Labels	: 3

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#### ADR

Packing group	:	III
Classification Code	:	F1
Hazard Identification Number	:	30
Labels	:	3
Tunnel restriction code	:	(D/E)

#### RID

Packing group	:	III
Classification Code	:	F1
Hazard Identification Number	:	30
Labels	:	3

#### IMDG

Packing group	:	III
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Labels : 3

EmS Code : F-E, S-E

#### IATA (Cargo)

Packing instruction (cargo : 366  
aircraft)

Packing instruction (LQ) : Y344

Packing group : III

Labels : Flammable Liquids

#### IATA (Passenger)

Packing instruction : 355  
(passenger aircraft)

Packing instruction (LQ) : Y344

Packing group : III

Labels : Flammable liquid

#### 14.5 Environmental hazards

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#### ADN

Environmentally  
hazardous : no

#### ADR

Environmentally  
hazardous : no

#### RID

Environmentally  
hazardous : no

#### IMDG

Marine pollutant : no

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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#### SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the following entries should be considered:

Number on list 72, 3

Number on list 3

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

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The Persistent Organic Pollutants Regulations  
(retained Regulation (EU) 2019/1021 as amended  
for Great Britain) : Not applicable

Regulation (EC) on substances that deplete the  
ozone layer : Not applicable

UK REACH List of substances subject to  
authorisation (Annex XIV) : Not applicable

P5c

Control of Major Accident Hazards  
Regulations 2015 (COMAH) P5c FLAMMABLE LIQUIDS

Volatile organic  
compounds : Volatile organic compounds (VOC) content: 161.1 g/l

Directive 2010/75/EU of 24 November 2010 on  
industrial emissions (integrated pollution prevention and  
control)

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Volatile organic compounds (VOC) content: 14.21 %

#### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

Details relating to the VOC Directive 2004/42/EC:

Subcategory as indicated in Annex IIB:

dropped

Limit value for maximum VOC content as specified in Annex IIB:

dropped

#### 15.2 Chemical Safety Assessment

Assessment of safe use has been performed for the mixture and the result is documented in section 7 and 8 of the SDS

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#### SECTION 16: Other information

##### Full text of H-Statements

H226 : Flammable liquid and vapor.

H302 : Harmful 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.

H319 : Causes serious eye irritation.

H330 : Fatal if inhaled.

H332 : Harmful if inhaled.

H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 : May cause respiratory irritation.

H336 : May cause drowsiness or dizziness.

H373 : May cause damage to organs through prolonged or

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repeated exposure.

H412 : Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard

Eye Irrit. : Eye irritation

Flam. Liq. : Flammable liquids

Resp. Sens. : Respiratory sensitization

Skin Irrit. : Skin irritation

Skin Sens. : Skin sensitization

STOT RE : Specific target organ toxicity - repeated exposure

STOT SE : Specific target organ toxicity - single exposure

2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

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GB EH40 BAT : UK. Biological monitoring guidance values

2000/39/EC / TWA : Limit Value - eight hours

2000/39/EC / STEL : Short term exposure limit

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT -

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Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

Other information : For multi-pack systems observe material safety data sheets of all components.  
Restricted to professional users.

#### Classification of the mixture:

Flam. Liq. 3	H226
Acute Tox. 4	H332
Skin Sens. 1	H317
STOT SE 3	H335

#### Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method

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GB / EN