



according to Regulation (EC) No 1907/2006

#### **Urethane**

Revision date: 09.12.2019 Product code: 121 Page 1 of 9

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

#### 1.1. Product identifier

Urethane

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

### Uses advised against

Reserved for industrial and professional use.

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

Company name: ITW LLC & Co. KG
Street: Mühlackerstrasse 149
Place: D-75417 Mühlacker

Telephone: ++49(0)7041-96340 Telefax: ++49(0)7041-963429

e-mail: info@itwcp.de Internet: www.itwcp.de

Responsible Department: Produktsicherheit Mo. - Do. 8.00 - 16.30 Fr. 8.00 - 14.00

Swiss Toxicological Information Centre - Téléphone : +41 44 251 51 51 (in

Switzerland dial 145)

United Kingdom: National Poisons Information Service - Phone number:

8448920111

Österreich: Vergiftungsinformationszentrale Vienna - Telefon-Nummer: +43 1

406 43 43

Schweiz: Tox Info Suisse - Telefon-Nummer: +41 44 251 51 51 Italia: Centro Antiveleni, Roma - Numero di telefono: +39 06 305 4343 España: Instituto Nacional de Toxicología - Teléfono: +34 91 562 04 20

#### 1.4. Emergency telephone

number:

Deutschland: ++49(0)7041-96340

#### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories: Aerosol: Aerosol 1

Skin corrosion/irritation: Skin Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3 Specific target organ toxicity - repeated exposure: STOT RE 2 Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Causes skin irritation.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

### Regulation (EC) No. 1272/2008

#### Hazard components for labelling

Kohlenwasserstoffe, C9-C12, n-Alkane, Isoalkane, Cyclene, Aromaten, Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatic

Signal word: Danger



ITW LLC & Co. KG

according to Regulation (EC) No 1907/2006

#### **Urethane**

Revision date: 09.12.2019 Product code: 121 Page 2 of 9

#### Pictograms:









#### **Hazard statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P312 Call a doctor if you feel unwell.

P271 Use only outdoors or in a well-ventilated area.

P251 Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

P210 Keep away from heat. No Smoking.

### Special labelling of certain mixtures

EUH208 Contains Butanon-2-oxim = methylethylketonoxim = MEKO (CAS 96-29-7), Long-term

exposure to MEKO may damage the mucous membrane of the nose. Long-term high dose inhalation of MEKO may cause irreversible damage to health.. May produce an

allergic reaction.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures



according to Regulation (EC) No 1907/2006

#### **Urethane**

Revision date: 09.12.2019 Product code: 121 Page 3 of 9

#### **Hazardous components**

	EC No					
	1=0.110	Index No	REACH No			
	GHS Classification	•	•			
106-97-8	butane					
	203-448-7	601-004-00-0				
	Flam. Gas 1; H220	•				
	Hydrocarbons, C6, isoalkanes, <5%	6 n-hexane		10-40%		
	931-254-9		01-2119484651-34			
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411					
	Hydrocarbons, C9, aromatics		10-30%			
	918-668-5		01-2119455851-35			
	Flam. Liq. 3, STOT SE 3, STOT SE H411	H226 H335 H336 H304				
74-98-6	propane		10-30%			
	200-827-9	601-003-00-5				
	Flam. Gas 1; H220					
	Hydrocarbons, C9-C12, n-alkanes,		5-10 %			
	919-446-0		01-2119458049-33			
	Flam. Liq. 3, STOT SE 3, STOT RE 1, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 2; H226 H336 H372 H304 H400 H411					
96-29-7	2-butanone oxime; ethyl methyl ket		<1%			
	202-496-6	616-014-00-0				
	Carc. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1; H351 H312 H318 H317					

Full text of H and EUH statements: see section 16.

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

### After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

#### After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

## After ingestion

If swallowed, immediately drink: Water.

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

No data available

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

No data available

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media



ITW LLC & Co. KG

according to Regulation (EC) No 1907/2006

#### **Urethane**

Revision date: 09.12.2019 Product code: 121 Page 4 of 9

#### Suitable extinguishing media

Carbon dioxide (CO2). Foam. Extinguishing powder.

### Unsuitable extinguishing media

Water with tenside additive. Water.

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

Combustible. Vapours may form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

#### 5.3. Advice for firefighters

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

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

#### **SECTION 6: Accidental release measures**

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

Remove all sources of ignition. Provide adequate ventilation. Wear a self-contained breathing apparatus and chemical protective clothing.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Explosion hazard.

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

Ventilate affected area.

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

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

## Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

#### Hints on joint storage

Do not store together with: Material, rich in oxygen, oxidizing.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

#### 8.2. Exposure controls



according to Regulation (EC) No 1907/2006

#### Urethane

Revision date: 09.12.2019 Product code: 121 Page 5 of 9





#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

#### Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

DIN EN 374 Tested protective gloves are to be worn: NBR (Nitrile rubber) 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. NBR (Nitrile rubber)

### Skin protection

Protective clothing:

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: Aerosol
Colour: colourless
Odour: characteristic

### Changes in the physical state

-0,5 °C Initial boiling point and boiling range: Flash point: <0 °C Lower explosion limits: 1,2 vol. % Upper explosion limits: 9,4 vol. % Ignition temperature: 300 °C Vapour pressure: 2100 hPa (at 20 °C) Vapour pressure: 4900 hPa (at 50 °C)

Density (at 20 °C): 0,79 g/cm<sup>3</sup>

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No data available

## 10.2. Chemical stability

No data available

# 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

Keep away from heat. Ignition hazard.



according to Regulation (EC) No 1907/2006

#### **Urethane**

Revision date: 09.12.2019 Product code: 121 Page 6 of 9

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

No data available

#### **Further information**

No data available

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

### **Acute toxicity**

CAS No	Chemical name							
	Exposure route	Dose	Species	Source	Method			
106-97-8	butane							
	inhalation (4 h) gas	LC50 273000 ppm	Rat	GESTIS				
	Hydrocarbons, C6, isoalkanes, <5% n-hexane							
	oral	LD50 >1000 mg/kg	Fisch 1					
96-29-7	2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime							
	dermal	ATE 1100 mg/kg						

### Irritation and corrosivity

Irritating to eyes. Following inhalation: Lung irritation. Coughing. shortage of breath. After skin contact: irritant.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
	Hydrocarbons, C6, isoalkanes, <5% n-hexane							
	Acute algae toxicity	ErC50 >	>1000	72 h	Alge			
	Acute crustacea toxicity	EC50 > mg/l	>1000		Daphnia pulex (water flea)			
96-29-7	2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime							
	Acute crustacea toxicity	EC50 7	750 mg/l	48 h	Daphnia magna			

### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
106-97-8	butane	2,89
74-98-6	propane	2,36
96-29-7	2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime	0,63

#### **Further information**

Do not allow to enter into surface water or drains.



according to Regulation (EC) No 1907/2006

#### **Urethane**

Revision date: 09.12.2019 Product code: 121 Page 7 of 9

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; gases in pressure containers (including halons) containing hazardous

substances; hazardous waste

### Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately

collected municipal packaging waste); metallic packaging

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

#### **SECTION 14: Transport information**

### Land transport (ADR/RID)

**14.1. UN number:** UN1950 **14.2. UN proper shipping name:** AEROSOLS

14.3. Transport hazard class(es):2Hazard label:2.1



Classification code: 5F

Special Provisions: 190 327 625

Limited quantity: 1 L
Transport category: 2
Tunnel restriction code: D

### Other applicable information (land transport)

E0

#### Inland waterways transport (ADN)

**14.1. UN number:** UN1950 **14.2. UN proper shipping name:** AEROSOLS

14.3. Transport hazard class(es): 2
Hazard label: 2 1



Classification code: 5F

Special Provisions: 190 327 344 625

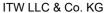
Limited quantity: 1 L

### Other applicable information (inland waterways transport)

E0

#### Marine transport (IMDG)

**14.1. UN number**: UN1950





according to Regulation (EC) No 1907/2006

Urethane

Revision date: 09.12.2019 Product code: 121 Page 8 of 9

14.2. UN proper shipping name: AEROSOLS

14.3. Transport hazard class(es):
14.4. Packing group:

Hazard label: 2, see SP63

Special Provisions: 63, 190, 277, 327, 344, 959

Limited quantity: See SP277
EmS: F-D, S-U

Other applicable information (marine transport)

F٥

Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN1950

14.2. UN proper shipping name: AEROSOLS, flammable

14.3. Transport hazard class(es):2.1Hazard label:2.1



Special Provisions: A145 A167 Limited quantity Passenger: 30 kg G

IATA-packing instructions - Passenger:203IATA-max. quantity - Passenger:75 kgIATA-packing instructions - Cargo:203IATA-max. quantity - Cargo:150 kg

Other applicable information (air transport)

E0 : Y203

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

### **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 28: butane; Hydrocarbons, C6, isoalkanes, <5% n-hexane 2004/42/EC (VOC): 200g/400ml Dose

National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

## **SECTION 16: Other information**

## Relevant H and EUH statements (number and full text)

H220 Extremely flammable gas.
 H222 Extremely flammable aerosol.
 H225 Highly flammable liquid and vapour.



according to Regulation (EC) No 1907/2006

	Urethane	
Revision date: 09.12.2019	Product code: 121	Page 9 of 9
H226	Flammable liquid and vapour.	
H229	Pressurised container: May burst if heated.	
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.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H351	Suspected of causing cancer.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H411	Toxic to aquatic life with long lasting effects.	
EUH208	Contains Butanon-2-oxim = methylethylketonoxim = MEKO (CAS 96-29-7). Long-term	
	exposure to MEKO may damage the mucous membrane of the nose. Long-term high	
	dose inhalation of MEKO may cause irreversible damage to health May produce an	
	allergic reaction.	

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