

according to Regulation (EC) No 1907/2006

Urethane

Print date: 20.05.2015

Product code: 121

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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 147	
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	
<u>1.4. Emergency telephone</u> number:	++49(0)7041-96340 Mo Do. 8.00 - 16.30 Fr. 8.00 - 14.00	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

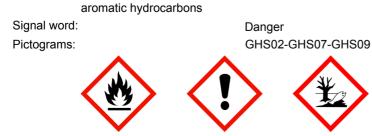
Indications of danger: F+ - Extremely flammable, Xi - Irritant, N - Dangerous for the environment R phrases: Extremely flammable. Irritating to skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories: Flammable gas: Flam. Gas 1 Acute toxicity: Acute Tox. 4 Skin corrosion/irritation: Skin Irrit. 2 Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 2 Hazard Statements: Extremely flammable aerosol. Pressurised container: May burst if heated. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label





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Hazard statements		
H222	Extremely flammable aerosol.	
H229	Pressurised container: May burst if heated.	
H336	May cause drowsiness or dizziness.	
H411	Toxic to aquatic life with long lasting effects.	
Precautionary statemer	nts	
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.	
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 cert	tain 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

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
265-151-9	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	10-30%
64742-49-0	F - Highly flammable, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R11-38-51-53-65	
	Flam. Liq. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H336 H304 H411	
01-2119484651-34		
265-185-4	Naphtha (petroleum), hydrodesulfurized heavy	10-30%
64742-82-1	Xn - Harmful, N - Dangerous for the environment R10-51-65-66-67	
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H304 H411	
	Solvent naphta light	10-20%
64742-95-6	Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R10-37-51-53-65	
	Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411	
201-159-0	butanone; ethyl methyl ketone	<1%
78-93-3	F - Highly flammable, Xi - Irritant R11-36-66-67	
606-002-00-3	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066	

Full text of R-, H- and EUH-phrases: 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).



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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

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.



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Advice on storage compatibility

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
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

8.2. Exposure controls



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: Butyl 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.

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

GB - EN

Test method



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Initial boiling point and boiling range:	-0,5 °C	
Flash point:	<0 ℃	
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: (at 50 °C)	4900 hPa	
Density (at 20 °C):	0,79 g/cm³	

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.

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

Irritation and corrosivity

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

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

12.1. Toxicity

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

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

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.



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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 dangerous substances Classified as 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)

<u>14.1. UN number:</u>	UN1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
Hazard label:	2.1
Classification code:	5F
Special Provisions:	190 327 625
Limited quantity:	1 L
Transport category:	2
Tunnel restriction code:	D
Other applicable information (land trans) E0	port)
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	UN1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
Hazard label:	2.1
	2
Classification code:	5F
Special Provisions: Limited quantity:	190 327 344 625 1 L
Other applicable information (inland wate E0	erways transport)
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN1950
14.2. UN proper shipping name:	AEROSOLS
14.3. Transport hazard class(es):	2
14.4. Packing group:	-



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Hazard label:		2, see SP63	
Special Provisions:		63, 190, 277, 327, 344, 959	
Limited quantity:		See SP277	
EmS:		F-D, S-U	
Other applicable in E0	nformation (marine tr	ansport)	
Air transport (ICAO)			
		1111050	
<u>14.1. UN number:</u>		UN1950	
14.2. UN proper sh		AEROSOLS, flammable	
14.3. Transport ha	<u>zard class(es):</u>	2.1	
Hazard label:		2.1	
		No. Contraction of the second s	
		2	
Special Provisions: Limited quantity Pa		A145 A167 30 kg G	
	ictions - Passenger:	203	
IATA-packing instru IATA-max. quantity		203 75 kg	
IATA-packing instru		203	
IATA-max. quantity		150 kg	
Other applicable in	nformation (air transp	ort)	
E0			
: Y203			
14.5. Environmental h	<u>iazards</u>		
ENVIRONMENTAL	LY HAZARDOUS:	no	
SECTION 15: Regul	atory information		
15.1. Safety, health ar	nd environmental reg	ulations/legislation specific for the substance or mixture	
EU regulatory info			
2004/42/EC (VOC)		45,71 % (319,97 g/l)	
		+,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
National regulator	-		
Water contaminatin	ig class (D):	2 - water contaminating	
SECTION 16: Other	information		
Relevant R-nhrase	es (Number and full te	xt)	
10	Flammable.	,	
	Highly flammable.		
36	Irritating to eyes.		
37	Irritating to respiratory	system.	
38	Irritating to skin.		
51	Toxic to aquatic organ	isms.	
		adverse effects in the aquatic environment.	
	-	ing damage if swallowed.	
66		ay cause skin dryness or cracking.	
67	Vanoure may cause d	rowsiness and dizziness	



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Relevant H- and EUH-p	hrases (Number and full text)	
H222	Extremely flammable aerosol.	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H229	Pressurised container: May burst if heated.	
H304	May be fatal if swallowed and enters airways.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H411	Toxic to aquatic life with long lasting effects.	
EUH066	Repeated exposure may cause skin dryness or cracking.	
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.)