



according to Regulation (EC) No 1907/2006

Urethane

Revision date: 11.04.2022 Product code: 121 Page 1 of 10

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

1.1. Product identifier

Urethane

UFI: DDA0-E0AM-R00A-V2VJ

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

Use of the substance/mixture

Isolierlack, Isolation lacquer

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 España: Instituto Nacional de Toxicología - Teléfono: +34 91 562 04 20 România (Romania): Spitalul de Urgenta Floreasca 021 230 8000

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.

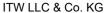
Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Kohlenwasserstoffe C6, C9-C12, n-Alkane, Isoalkane, Cyclene, Aromaten, Hydrocarbons C6, C9-C12, n-alkanes, isoalkanes, cyclics, aromatic





according to Regulation (EC) No 1907/2006

Urethane

Revision date: 11.04.2022 Product code: 121 Page 2 of 10

Signal word: Danger

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 Enthält 2-ethylhexanoate of cobalt. Contains ethylhexanoate of cobalt. May

produce a allergic reaction. May produce an allergic reaction.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



according to Regulation (EC) No 1907/2006

Urethane

Revision date: 11.04.2022 Product code: 121 Page 3 of 10

Hazardous components

CAS No	Chemical name		Quantity			
	EC No	Index No	REACH No			
	GHS Classification					
106-97-8	butane			20-40%		
	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 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411					
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					
136-52-7	2-ethylhexanoate of cobalt		< 0.1 %			
	205-250-6		01-2119524678-29	_		
	Repr. 1B, Eye Irrit. 2, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 3; H360 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	
	931-254-9	Hydrocarbons, C6, isoalkanes, <5% n-hexane	10-40% %
	inhalation: LCs mg/kg	50 = 259354 mg/l (vapours); dermal: LD50 = 3350 mg/kg; oral: LD50 = >36750	
	918-668-5	Hydrocarbons, C9, aromatics	10-30% %
	inhalation: LC	50 = 6193 mg/l (vapours); dermal: LD50 = 3160 mg/kg; oral: LD50 = 3492 mg/kg	
	919-446-0	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatic	5-10 %
	inhalation: LC	50 = 13,1 mg/l (vapours); dermal: LD50 = 3400 mg/kg; oral: LD50 = 15000 mg/kg	

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.



ITW LLC & Co. KG

according to Regulation (EC) No 1907/2006

Urethane

Revision date: 11.04.2022 Product code: 121 Page 4 of 10

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

General measures

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

Other information

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.



according to Regulation (EC) No 1907/2006

Urethane

Revision date: 11.04.2022 Product code: 121 Page 5 of 10

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





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

EN ISO 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

Test method

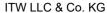
Changes in the physical state

Boiling point or initial boiling point and -0,5 °C

boiling range:

Softening point: DIN EN 1238

Flash point: <0 °C
Sustaining combustion: Not sustaining combustion
Lower explosion limits: 1,2 vol. %
Upper explosion limits: 9,4 vol. %
Auto-ignition temperature: 300 °C





according to Regulation (EC) No 1907/2006

Urethane

Revision date: 11.04.2022 Product code: 121 Page 6 of 10

Vapour pressure: 2100 hPa

(at 20 °C)

Vapour pressure: 4900 hPa

(at 50 °C)

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

CAS No	Chemical name								
	Exposure route	Dose		Species Source		Method			
	Hydrocarbons, C6, iso	Hydrocarbons, C6, isoalkanes, <5% n-hexane							
	oral	LD50 mg/kg	>36750	Rat	OECD	Prüfrichtlinie 401			
	dermal	LD50 mg/kg	3350	Rabbit	OECD	Prüfrichtlinie 402			
	inhalation vapour	LC50 mg/l	259354	Rat	OECD	Prüfrichtlinie 403			
	Hydrocarbons, C9, aromatics								
	oral	LD50 mg/kg	3492	Rat	OECD	Prüfrichtlinie 401			
	dermal	LD50 mg/kg	3160	Rabbit	OECD	Prüfrichtlinie 402			
	inhalation vapour	LC50	6193 mg/l	Rat	OECD	Prüfrichtlinie 403			
	Hydrocarbons, C9-C1	2, n-alkanes,	isoalkanes, cy	clics,aromatic					
	oral	LD50 mg/kg	15000	Rat	OECD	Prüfrichtlinie 401			
	dermal	LD50 mg/kg	3400	Rabbit	OECD	Prüfrichtlinie 402			
	inhalation vapour	LC50	13,1 mg/l	Rat	OECD	Prüfrichtlinie 403			



according to Regulation (EC) No 1907/2006

Urethane

Revision date: 11.04.2022 Product code: 121 Page 7 of 10

Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

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

Sensitising effects

Contains Enthält 2-ethylhexanoate of cobalt. Contains ethylhexanoate of cobalt. May produce a allergic reaction. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C6, isoalkanes, <5% n-hexane)

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatic)

Aspiration hazard

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

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, isoalk	anes, <5%	n-hexane				
	Acute fish toxicity	LC50	>1 mg/l	96 h	Fish		
	Acute algae toxicity	ErC50	30 mg/l	72 h	Alge		
	Acute crustacea toxicity EC50 3,87 mg/l		48 h	Daphnia pulex (water flea)			
	Hydrocarbons, C9, aromatics						
	Acute fish toxicity	LC50	9,2 mg/l	96 h	Fish		
	Acute algae toxicity	ErC50	2,9 mg/l		Alge		
	Acute crustacea toxicity	EC50	3,2 mg/l	48 h	Daphnia pulex (water flea)		
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatic						
	Acute fish toxicity	LC50 mg/l	10-30	96 h	Fish		
	Acute algae toxicity	ErC50 mg/l	0,22		Algae		
	Acute crustacea toxicity	EC50 mg/l	10-22	48 h	Daphnia pulex (water flea)		

12.3. Bioaccumulative potential

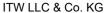
Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
106-97-8	butane	2,89
74-98-6	propane	2,36

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations





according to Regulation (EC) No 1907/2006

Urethane

Revision date: 11.04.2022 Product code: 121 Page 8 of 10

13.1. Waste treatment methods

Disposal recommendations

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

List of Wastes Code - 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

List of Wastes Code - 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:UN195014.2. 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 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

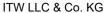
Other applicable information (inland waterways transport)

E0

Marine transport (IMDG)

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

14.3. Transport hazard class(es): 2





according to Regulation (EC) No 1907/2006

Urethane

Revision date: 11.04.2022 Product code: 121 Page 9 of 10

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)

E0

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): 2.1
Hazard 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: Yes



Danger releasing substance: Hydrocarbons, C6, isoalkanes, <5% n-hexane

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

2004/42/EC (VOC): 200g/400ml Dose

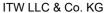
Additional information

Contains no REACH substances with Annex XVII restictions

Contains no substances on the Reach canditate list

Contains no Reach Annex XIV substances

National regulatory information





according to Regulation (EC) No 1907/2006

Urethane

Revision date: 11.04.2022 Product code: 121 Page 10 of 10

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): 2 - obviously hazardous to water

15.2. Chemical safety assessment

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

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.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360	May damage fertility or the unborn child.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains Enthält 2-ethylhexanoate of cobalt. Contains ethylhexanoate of cobalt. May produce a allergic reaction.

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