

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 13.11.2023

Version number 11 (replaces version 10)

Revision: 13.11.2023

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

#### 1.1 Product identifier

- Trade name: **High Gloss Clear 2K**
- Article number: 88050
- UFI: MGC4-U0XG-N008-NC0X

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

No further relevant information available.

#### Application of the substance / the mixture

Clear coating material, Varnish

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

- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH  
Lechstrasse 28  
D 90451 Nürnberg
- Tel. +49(0)911-642960  
Fax. +49(0)911-644456  
e-mail info@akemi.de

#### Further information obtainable from:

Laboratory

#### 1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH  
Tel. +49(0)911-64296-59  
Reachable during the following office hours:  
Monday – Thursday from 07:30 a.m. to 16:30 p.m.  
Friday from 07:30 a.m. to 13:30 p.m.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Carc. 2	H351	Suspected of causing cancer.
STOT SE 3	H336	May cause drowsiness or dizziness.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No 1272/2008

##### Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS02 GHS07 GHS08

##### Signal word

Danger

##### Hazard-determining components of labelling:

acetone  
Hexamethylene-1,6-diisocyanate homopolymer  
4-methylpentan-2-one  
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl  
1,2,2,6,6-pentamethyl-4-piperidyl sebacate  
n-butyl acetate

##### Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

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· <u>Precautionary statements</u>	<p>H317 May cause an allergic skin reaction.  H351 Suspected of causing cancer.  H336 May cause drowsiness or dizziness.  H412 Harmful to aquatic life with long lasting effects.</p> <p>P101 If medical advice is needed, have product container or label at hand.  P102 Keep out of reach of children.  P103 Read carefully and follow all instructions.  P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  P211 Do not spray on an open flame or other ignition source.  P251 Do not pierce or burn, even after use.  P260 Do not breathe spray.  P280 Wear protective gloves / eye protection.  P284 [In case of inadequate ventilation] wear respiratory protection.  P302+P352 IF ON SKIN: Wash with plenty of water.  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P312 Call a POISON CENTER/doctor if you feel unwell.  P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
· <u>Additional information:</u>	Contains isocyanates. May produce an allergic reaction. Buildup of explosive mixtures possible without sufficient ventilation.
· <b>2.3 Other hazards</b>	
· <u>Results of PBT and vPvB assessment</u>	
· <u>PBT:</u>	Not applicable.
· <u>vPvB:</u>	Not applicable.
· <u>Determination of endocrine-disrupting properties</u>	For information on endocrine disrupting properties see section 11.

### SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

· Description: Mixture: consisting of the following components.

#### · Dangerous components:

CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37	dimethyl ether Flam. Gas 1A, H220 Press. Gas (Comp.), H280	25-50%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49	acetone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	12.5-25%
EC number: 905-588-0 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32 01-2119486136-34	reaction mass of ethylbenzole and xylene Flam. Liq. 3, H226 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<10%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	<10%

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CAS: 28182-81-2 EC number: 931-274-8 Reg.nr.: 01-2119485796-17-0000	Hexamethylene-1,6-diisocyanate homopolymer Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335 EUH204	1-5%
CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4 Reg.nr.: 01-2119486773-24 01-2119455851-35	Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H335-H336 EUH066	1-5%
CAS: 110-12-3 EINECS: 203-737-8 Index number: 606-026-00-4 Reg.nr.: 01-2119472300-51	5-methylhexan-2-one Flam. Liq. 3, H226 Acute Tox. 4, H332	1-5%
CAS: 112-07-2 EINECS: 203-933-3 Index number: 607-038-00-2 Reg.nr.: 01-2119475112-47	2-butoxyethyl acetate Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	1-5%
CAS: 108-10-1 EINECS: 203-550-1 Index number: 606-004-00-4 Reg.nr.: 01-2119473980-30-xxxx	4-methylpentan-2-one Flam. Liq. 2, H225 Carc. 2, H351 Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H336 EUH066 ATE: LC50/4 h inhalative: 11 mg/l	1-5%
CAS: 1065336-91-5 EC number: 915-687-0 Reg.nr.: 01-2119491304-40	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate Repr. 2, H361f Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1A, H317	<1%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

- General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.  
Immediately remove any clothing soiled by the product.  
Take affected persons out into the fresh air.
- After inhalation: Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Rinse out mouth and then drink plenty of water.  
Seek medical treatment.

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

Breathing difficulty  
Dizziness  
Headache  
Allergic reactions

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· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· **For safety reasons unsuitable extinguishing agents:**

Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Mount respiratory protective device.

Keep away from ignition sources.

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Do not flush with water or aqueous cleansing agents

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Take note of emission threshold.

Use only in well ventilated areas.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

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Do not spray onto a naked flame or any incandescent material.

**7.2 Conditions for safe storage, including any incompatibilities**· Storage:· Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with oxidising and acidic materials.

· Further information about storage conditions:

Protect from frost.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· Storage class:

2 B

· **7.3 Specific end use(s)**

No further relevant information available.

**SECTION 8: Exposure controls/personal protection**· **8.1 Control parameters**· Ingredients with limit values that require monitoring at the workplace:**115-10-6 dimethyl ether**IOELV Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm**67-64-1 acetone**IOELV Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm**reaction mass of ethylbenzole and xylene**AGW Short-term value: 442 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 221 mg/m<sup>3</sup>, 50 ppm  
H**123-86-4 n-butyl acetate**IOELV Short-term value: 723 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 241 mg/m<sup>3</sup>, 50 ppm**28182-81-2 Hexamethylene-1,6-diisocyanate homopolymer**TLV Short-term value: 1 mg/m<sup>3</sup>**110-12-3 5-methylhexan-2-one**IOELV Long-term value: 95 mg/m<sup>3</sup>, 20 ppm**112-07-2 2-butoxyethyl acetate**IOELV Short-term value: 333 mg/m<sup>3</sup>, 50 ppm  
Long-term value: 133 mg/m<sup>3</sup>, 20 ppm  
Skin**108-10-1 4-methylpentan-2-one**IOELV Short-term value: 208 mg/m<sup>3</sup>, 50 ppm  
Long-term value: 83 mg/m<sup>3</sup>, 20 ppm· DNELs**115-10-6 dimethyl ether**Inhalative DNEL (Langzeit-wiederholt) 1,894 mg/m<sup>3</sup> Air (ARB)  
471 mg/m<sup>3</sup> Air (BEV)**67-64-1 acetone**

Oral DNEL (Langzeit-wiederholt) 62 mg/kg bw/day (BEV)

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Dermal	DNEL ( Langzeit-wiederholt)	186 mg/kg bw/day (ARB) 62 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	2,420 mg/m <sup>3</sup> Air (ARB)
	DNEL (Langzeit-wiederholt)	1,210 mg/m <sup>3</sup> Air (ARB)
		200 mg/m <sup>3</sup> Air (BEV)

**reaction mass of ethylbenzole and xylene**

Oral	DNEL (Langzeit-wiederholt)	1.6 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	180-212 mg/kg bw/day (ARB)
		108 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	289-442 mg/m <sup>3</sup> Air (ARB)
		260 mg/m <sup>3</sup> Air (BEV)
	DNEL (Langzeit-wiederholt)	211-221 mg/m <sup>3</sup> Air (ARB)
		14.8-65.3 mg/m <sup>3</sup> Air (BEV)

**123-86-4 n-butyl acetate**

Oral	DNEL (Kurzzeit-akut)	2 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	2 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	11 mg/kg bw/day (ARB)
		6 mg/kg bw/day (BEV)
Inhalative	DNEL ( Langzeit-wiederholt)	11 mg/kg bw/day (ARB)
		6 mg/kg bw/day (BEV)
	DNEL (Kurzzeit-akut)	600 mg/m <sup>3</sup> Air (ARB)
		300 mg/m <sup>3</sup> Air (BEV)
	DNEL (Langzeit-wiederholt)	300 mg/m <sup>3</sup> Air (ARB)
		35.7 mg/m <sup>3</sup> Air (BEV)

**28182-81-2 Hexamethylene-1,6-diisocyanate homopolymer**

Inhalative	DNEL (Kurzzeit-akut)	1 mg/m <sup>3</sup> Air (ARB)
	DNEL (Langzeit-wiederholt)	0.5 mg/m <sup>3</sup> Air (ARB)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	DNEL (Langzeit-wiederholt)	11 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	25 mg/kg bw/day (ARB)
		11 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	150 mg/m <sup>3</sup> Air (ARB)
		32 mg/m <sup>3</sup> Air (BEV)

**110-12-3 5-methylhexan-2-one**

Oral	DNEL (Langzeit-wiederholt)	7.25 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	8 mg/kg bw/day (ARB)
		7.25 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	818 mg/m <sup>3</sup> Air (ARB)
		733 mg/m <sup>3</sup> Air (BEV)
		DNEL (Langzeit-wiederholt)
		25.2 mg/m <sup>3</sup> Air (BEV)

**112-07-2 2-butoxyethyl acetate**

Oral	DNEL (Kurzzeit-akut)	18 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	4.3 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	102 mg/kg bw/day (ARB)

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Inhalative	DNEL ( Langzeit-wiederholt)	27 mg/kg bw/day (BEV) 102 mg/kg bw/day (ARB) 36-102 mg/kg bw/day (BEV)
	DNEL (Kurzzeit-akut)	333-775 mg/m <sup>3</sup> Air (ARB) 166-499 mg/m <sup>3</sup> Air (BEV)
	DNEL (Langzeit-wiederholt)	133 mg/m <sup>3</sup> Air (ARB) 67 mg/m <sup>3</sup> Air (BEV)

**108-10-1 4-methylpentan-2-one**

Oral	DNEL (Langzeit-wiederholt)	4.2 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	11.8 mg/kg bw/day (ARB) 4.2 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	208 mg/m <sup>3</sup> Air (ARB) 155.2 mg/m <sup>3</sup> Air (BEV)
	DNEL (Langzeit-wiederholt)	83 mg/m <sup>3</sup> Air (ARB) 14.7 mg/m <sup>3</sup> Air (BEV)

**1065336-91-5 Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate**

Oral	DNEL (Kurzzeit-akut)	1.25 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	0.18 mg/kg bw/day (BEV)
	DNEL (Kurzzeit-akut)	2.5 mg/kg bw/day (ARB) 1.25 mg/kg bw/day (BEV)
Inhalative	DNEL ( Langzeit-wiederholt)	1.8 mg/kg bw/day (ARB) 0.9 mg/kg bw/day (BEV)
	DNEL (Kurzzeit-akut)	2.35 mg/m <sup>3</sup> Air (ARB) 0.58 mg/m <sup>3</sup> Air (BEV)
	DNEL (Langzeit-wiederholt)	1.27 mg/m <sup>3</sup> Air (ARB) 0.31 mg/m <sup>3</sup> Air (BEV)

## · PNECs

**115-10-6 dimethyl ether**

PNEC (wässrig)	160 mg/l (KA)
	0.016 mg/l (MW)
	0.155 mg/l (SW)
PNEC (fest)	0.045 mg/kg Trockengew (BO)
	0.0681 mg/kg Trockengew (MWS)
	0.681 mg/kg Trockengew (SWS)

**67-64-1 acetone**

PNEC (wässrig)	100 mg/l (KA)
	1.06 mg/l (MW)
	10.6 mg/l (SW)
PNEC (fest)	21 mg/l (WAS)
	29.5 mg/kg Trockengew (BO)
	3.04 mg/kg Trockengew (MWS) 30.4 mg/kg Trockengew (SWS)

**reaction mass of ethylbenzole and xylol**

PNEC (wässrig)	6.58 mg/l (KA)
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PNEC (fest)	0.327 mg/l (MW) 0.327 mg/l (SW) 0.327 mg/l (WAS) 2.31 mg/kg Trockengew (BO) 12.46 mg/kg Trockengew (MWS) 12.46 mg/kg Trockengew (SWS)
<b>123-86-4 n-butyl acetate</b>	
PNEC (wässrig)	35.6 mg/l (KA) 0.018 mg/l (MW) 0.18 mg/l (SW) 0.36 mg/l (WAS)
PNEC (fest)	0.0903 mg/kg Trockengew (BO) 0.0981 mg/kg Trockengew (MWS) 0.981 mg/kg Trockengew (SWS)
<b>28182-81-2 Hexamethylene-1,6-diisocyanate homopolymer</b>	
PNEC (wässrig)	38.28 mg/l (KA) 0.0127 mg/l (MW) 0.127 mg/l (SW) 1.27 mg/l (WAS)
PNEC (fest)	53,200 mg/kg Trockengew (BO) 26,670 mg/kg Trockengew (MWS) 266,700 mg/kg Trockengew (SWS)
<b>110-12-3 5-methylhexan-2-one</b>	
PNEC (wässrig)	0.01 mg/l (MW) 1 mg/l (WAS)
PNEC (fest)	0.166 mg/kg Trockengew (BO) 0.112 mg/kg Trockengew (MWS) 1.12 mg/kg Trockengew (SWS)
<b>112-07-2 2-butoxyethyl acetate</b>	
PNEC (wässrig)	90 mg/l (KA) 0.0304 mg/l (MW) 0.304 mg/l (SW) 0.56 mg/l (WAS)
PNEC (fest)	0.415 mg/kg Trockengew (BO) 0.203 mg/kg Trockengew (MWS) 2.03 mg/kg Trockengew (SWS)
<b>108-10-1 4-methylpentan-2-one</b>	
PNEC (wässrig)	27.5 mg/l (KA) 0.06 mg/l (MW) 0.6 mg/l (SW) 1.5 mg/l (WAS)
PNEC (fest)	1.3 mg/kg Trockengew (BO) 0.83 mg/kg Trockengew (MWS) 8.27 mg/kg Trockengew (SWS)

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### 1065336-91-5 Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

PNEC (wässrig)	1 mg/l (KA)
	0.00022 mg/l (MW)
	0.0022 mg/l (SW)
	0.009 mg/l (WAS)
PNEC (fest)	0.21 mg/kg Trockengew (BO)
	0.11 mg/kg Trockengew (MWS)
	1.05 mg/kg Trockengew (SWS)

· Additional information: The lists valid during the making were used as basis.

#### · **8.2 Exposure controls**

- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

- Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Short term filter device:  
Filter A/P2

- Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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- Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- For the permanent contact gloves made of the following materials are suitable: Butyl rubber, BR
- As protection from splashes gloves made of the following materials are suitable: Butoject (KCL, Art\_No. 897, 898)  
Butyl rubber, BR
- Not suitable are gloves made of the following materials: Nitrile rubber, NBR
- Eye/face protection



Tightly sealed goggles

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

- General Information
- Physical state Aerosol
- Colour: Colourless
- Odour: Specific type
- Odour threshold: Not determined.
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range Not applicable, as aerosol.
- Flammability Not applicable.
- Lower and upper explosion limit
- Lower: 2.6 Vol % (67-64-1 acetone)
- Upper: 18.6 Vol % (115-10-6 dimethyl ether)
- Flash point: Not applicable, as aerosol.
- Auto-ignition temperature: 235 °C (115-10-6 dimethyl ether)
- Decomposition temperature: Not determined.
- pH Not determined.
- Viscosity:
- Kinematic viscosity Not determined.
- Dynamic: Not determined.
- Solubility
- water: Not miscible or difficult to mix.
- Partition coefficient n-octanol/water (log value) Not determined.
- Vapour pressure at 20 °C: 5,200 hPa (115-10-6 dimethyl ether)
- Density and/or relative density
- Density at 20 °C: 0.8 g/cm<sup>3</sup>
- Relative density Not determined.
- Vapour density Not determined.

**9.2 Other information**

- Appearance:
- Form: Aerosol
- Important information on protection of health and environment, and on safety.
- Ignition temperature: Product is not selfigniting.
- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Solvent content:
- Organic solvents: 82.5 %

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· Solids content:	10.3 %
· <u>Change in condition</u>	
· <u>Evaporation rate</u>	Not applicable.
· <u>Information with regard to physical hazard classes</u>	
· <u>Explosives</u>	Void
· <u>Flammable gases</u>	Void
· <u>Aerosols</u>	Extremely flammable aerosol. Pressurised container: May burst if heated.
· <u>Oxidising gases</u>	Void
· <u>Gases under pressure</u>	Void
· <u>Flammable liquids</u>	Void
· <u>Flammable solids</u>	Void
· <u>Self-reactive substances and mixtures</u>	Void
· <u>Pyrophoric liquids</u>	Void
· <u>Pyrophoric solids</u>	Void
· <u>Self-heating substances and mixtures</u>	Void
· <u>Substances and mixtures, which emit flammable gases in contact with water</u>	Void
· <u>Oxidising liquids</u>	Void
· <u>Oxidising solids</u>	Void
· <u>Organic peroxides</u>	Void
· <u>Corrosive to metals</u>	Void
· <u>Desensitised explosives</u>	Void

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Heat, flames and other sources of ignition
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide

**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.

· LD/LC50 values relevant for classification:

**ATE (Acute Toxicity Estimates)**

Oral	LD50	53,477 mg/kg (rat)
Dermal	LD50	42,099 mg/kg
Inhalative	LC50/4 h	>7.87-10.5 mg/l

**115-10-6 dimethyl ether**

Inhalative	LC50/4h	164,000 mg/m <sup>3</sup> (rat)
	LC50/4 h	164 mg/l (rat)
	LC50/48h	>4,000 mg/l (daphnia magna)

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**67-64-1 acetone**

Oral	LD50	5,800 mg/kg (rat) (OECD 401)
	NOEL	900 mg/kg (rat)
Dermal	LD50	15,688 mg/kg (rat)
		7,426-15,800 mg/kg (rabbit)
Inhalative	LC50/4 h	76 mg/l (rat)
	NOAEL	22,500 mg/m <sup>3</sup> (rat)
	LC50/48h	8,450 mg/l (crustaceans) 2,262 mg/l (daphnia magna)

**reaction mass of ethylbenzole and xylene**

Oral	LD50	3,523 mg/kg (rat)
	NOAEL-Werte	250 mg/kg (rat)
Dermal	LD50	12,126 mg/kg (rabbit)
Inhalative	LC50/4h	29,000 mg/m <sup>3</sup> (rat)
	LC50/4 h	27.124 mg/l (rat)

**123-86-4 n-butyl acetate**

Oral	LD50	10,760 mg/kg (rat) (OECD 423)
Dermal	LD50	>14,112 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	23.4 mg/l (rat) (OECD 403)
	LC50	390 mg/m <sup>3</sup> (rat)
	LC50/48h	64 mg/l (Brachydanio rerio)

**28182-81-2 Hexamethylene-1,6-diisocyanate homopolymer**

Oral	LD50	>2,000 mg/kg (rat) (OECD 423)
	NOAEL-Werte	3 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)
		>2,000 mg/kg (rat) (OECD 402)
Inhalative	LC50/4h	400 mg/m <sup>3</sup> (rat)
	LC50/4 h	0.39-0.543 mg/l (rat) (OECD TG 403)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD50	>6,800 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg (rabbit)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

**110-12-3 5-methylhexan-2-one**

Oral	LD50	mg/kg (rat)
Inhalative	LC50/4 h	11 mg/l (ATE)

**112-07-2 2-butoxyethyl acetate**

Oral	LD50	1,880 mg/kg (rat) (OECD 401)
Dermal	LD50	1,480 mg/kg (rabbit)
Inhalative	LC50/4 h	>2.66 mg/l (rat) (OECD 403)
	LC50/8h	>3.91 mg/l (rat)

**108-10-1 4-methylpentan-2-one**

Oral	LD50	2,080 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	11 mg/l (ATE)

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		8.3-16.6 mg/l (rat)
<b>1065336-91-5 Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b>		
Oral	LD50	3,230 mg/kg (rat)
Dermal	LD50	>3,170 mg/kg (rat)

- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Suspected of causing cancer.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure May cause drowsiness or dizziness.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

**11.2 Information on other hazards**

- Endocrine disrupting properties

None of the ingredients is listed.

**SECTION 12: Ecological information****12.1 Toxicity**

- Aquatic toxicity:

**115-10-6 dimethyl ether**

EC50/96h	154.9 mg/l (algae)
	>4,000 mg/l (poecilia reticulata)
	154.917 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	>4,000 mg/l (daphnia magna)
LC50/96h	>4,000 mg/l (poecilia reticulata)

**67-64-1 acetone**

EC50/96h	7,200 mg/l (algae)
	8,300 mg/l (piscis)
	8,300 mg/l (Iepomis macrochirus)
	7,500 mg/l (Selenastrum capricornutum)
EC50	1,700 mg/l (bacteria)
LC50	6,368 mg/l (piscis)
LC50/24h	8,800 mg/l (daphnia)
EC5/16h	1,700 mg/l (Pseudomonas putida)
EC5/72h	28 mg/l (Entosiphon sulcatum)
EC5/8d	530 mg/l (microorganisms)
IC5/8d	7,500 mg/l (Scenedesmus quadricauda)
EC50/48h	3,400 mg/l (algae)
	8,800 mg/l (daphnia magna)
NOEC	1,700 mg/kg (Pseudomonas putida)
	4,740 mg/kg (Selenastrum capricornutum)
NOELR/28d	2,212 mg/l (daphnia magna)
EC50/48h	12,600 mg/l (Danio rerio.)
	8,800 mg/l (daphnia magna)

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LC50/96h	8,300 mg/l (lem)
	8,300 mg/l (Iepomis macrochirus)
	7,500 mg/l (Leuciscus idus)
	5,540 mg/l (Oncorhynchus mykiss)
	8,120 mg/l (Pimephales promelas)

**reaction mass of ethylbenzole and xylene**

LC50/24h	1 mg/l (daphnia magna) (OECD 202)
EC50/48h	3.2-9.5 mg/l (daphnia magna) (US EPA)
ErC50/72h	4.9 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC	16 mg/l (BES)
	1.3 mg/l (Oncorhynchus mykiss)
NOELR/72h	0.44 mg/l (algae)
NOEC/21d	1.57 mg/l (daphnia magna) (OECD 211)
NOELR/28d	16 mg/l (bacteria)
EC50/72h	1-10 mg/l (algae)
	2.2 mg/l (selenastrum capricornutum) (OECD 201)
LC50/96h	1-10 mg/l (fish)
	86 mg/l (Leuciscus idus)
	2.6 mg/l (Oncorhynchus mykiss) (OECD 203)
	8.9-16.4 mg/l (pimephales promelas)

**123-86-4 n-butyl acetate**

EC50/24h	72.8 mg/l (daphnia magna) (DIN 38412)
EC50/96h	320 mg/l (algae)
LC50/24h	205 mg/l (daphnia magna)
IC50/72h	648 mg/l (Desmodesmus subspicatus)
EC10/18h	959 mg/l (pseudomonas putida)
EC50/48h	44 mg/l (daphnia magna)
EC50/16h	959 mg/l (pseudomonas putida)
NOEC	200 mg/kg (Desmodesmus subspicatus)
NOEC/21d	23 mg/l (daphnia magna) (OECD 211)
EC50/72h	647.7 mg/l (Desmodesmus subspicatus) (Zellvermehrungshemmtest)
	674 mg/l (Scenedesmus subspicatus)
LC50/96h	62 mg/l (Danio rerio.)
	81 mg/l (piscis)
	100 mg/l (Iepomis macrochirus)
	62 mg/l (Leuciscus idus) (DIN 38412)
	18 mg/l (pimephales promelas) (OECD 203)

**28182-81-2 Hexamethylene-1,6-diisocyanate homopolymer**

EC50	3,828 mg/l (BES) (OECD 209)
LC 0/96h	>82.8 mg/l (Brachydanio rerio) (OECD 203)
EC50/48h	127 mg/l (daphnia magna) (RL 67/548/EWG, Anhang V, C.3.)
ErC50/72h	>1,000 mg/l (Desmodesmus subspicatus) (DIN 38412)
EC0	>100 mg/l (daphnia magna) (OECD 202)
EL50/48h	127 mg/l (daphnia magna)
LL50/96h	8.9 mg/l (Brachydanio rerio)

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EC10	370 mg/l (Desmodesmus subspicatus)
EC50/72h	199 mg/l (Scenedesmus subspicatus) (OECD 201)
LC50/96h	>100 mg/l (Danio rerio.) (RL 67/548/EWG, Anhang V, C.1.)
<b>64742-95-6 Solvent naphtha (petroleum), light arom.</b>	
EC50/96h	19 mg/l (Desmodesmus subspicatus)
EC50/48h	3.2 mg/l (daphnia magna)
LL50/96h	9.2 mg/l (piscis)
EC50/72h	2.9 mg/l (Desmodesmus subspicatus) 2.6 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	>100 mg/l (trout)
<b>110-12-3 5-methylhexan-2-one</b>	
EC50/72h	>100 mg/l (algae)
LC50/96h	159 mg/l (piscis)
<b>112-07-2 2-butoxyethyl acetate</b>	
IC50/72h	>100 mg/l (Scenedesmus subspicatus)
EC50/48h	37 mg/l (daphnia magna) (DIN 38 412 Part 11) 10 mg/l (piscis)
EC20/3h	>1,000 mg/l (BES) (ISO 8692)
EC10	30.4 mg/l (ceriodaphnia Dubai) (OECD 211)
EC50/72h	1,570 mg/l (Pseudokirchneriella subcapitata) (ISO 8692)
LC50/96h	28.3 mg/l (Oncorhynchus mykiss) (OECD 203)
<b>108-10-1 4-methylpentan-2-one</b>	
EC50/48h	275 mg/l (daphnia magna)
LC50/96h	179 mg/l (piscis)
<b>1065336-91-5 Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b>	
EC50/24h	20 mg/l (daphnia magna)
EC20/3h	≥100 mg/l (BES)
LL0/96h	0.9 mg/l (Zebrabärbling)
NOEC/21d	1 mg/l (daphnia magna)
EC50/72h	1.68 mg/l (Desmodesmus subspicatus)
LC50/96h	0.9 mg/l (Brachydanio rerio) 7.9 mg/l (Oncorhynchus mykiss)

· **12.2 Persistence and degradability**

No further relevant information available.

· **12.3 Bioaccumulative potential**

No further relevant information available.

· **12.4 Mobility in soil**

No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· PBT: Not applicable.

· vPvB: Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system.  
Harmful to aquatic organisms

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Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by hazardous substances
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 11*	metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers

Uncleaned packaging:Recommendation:

Disposal must be made according to official regulations.

**SECTION 14: Transport information****14.1 UN number or ID number**ADR, IMDG, IATA

UN1950

**14.2 UN proper shipping name**ADR  
IMDG  
IATA1950 AEROSOLS  
AEROSOLS  
AEROSOLS, flammable**14.3 Transport hazard class(es)**ADRClass  
Label2.5F Gases.  
2.1IMDG, IATAClass  
Label2.1 Gases.  
2.1

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· <b>14.4 Packing group</b> · <u>ADR, IMDG, IATA</u>	Void
· <b>14.5 Environmental hazards:</b> · <u>Marine pollutant:</u>	No
· <b>14.6 Special precautions for user</b> · <u>Hazard identification number (Kemler code):</u> · <u>EMS Number:</u> · <u>Stowage Code</u>  · <u>Segregation Code</u>	Warning: Gases. - F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <u>Transport/Additional information:</u>	
· <u>ADR</u> · <u>Limited quantities (LQ)</u> · <u>Excepted quantities (EQ)</u>  · <u>Transport category</u> · <u>Tunnel restriction code</u>	1L Code: E0 Not permitted as Excepted Quantity 2 D
· <u>IMDG</u> · <u>Limited quantities (LQ)</u> · <u>Excepted quantities (EQ)</u>	1L Code: E0 Not permitted as Excepted Quantity
· <u>UN "Model Regulation":</u>	UN 1950 AEROSOLS, 2.1

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· Directive 2012/18/EU	
· <u>Named dangerous substances - ANNEX I</u>	None of the ingredients is listed.
· <u>Seveso category</u>	P3a FLAMMABLE AEROSOLS
· <u>Qualifying quantity (tonnes) for the application of lower-tier requirements</u>	150 t
· <u>Qualifying quantity (tonnes) for the application of upper-tier requirements</u>	500 t
· <u>REGULATION (EC) No 1907/2006 ANNEX XVII</u>	Conditions of restriction: 3

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· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

67-64-1 acetone

· Regulation (EC) No 273/2004 on drug precursors

67-64-1 acetone

3

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

67-64-1 acetone

3

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 660.2 g/l

· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Department issuing SDS: Laboratory

· Date of previous version: 03.11.2022

· Version number of previous version: 10

· Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 SVHC: Substances of Very High Concern  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Gas 1A: Flammable gases – Category 1A  
 Aerosol 1: Aerosols – Category 1  
 Press. Gas (Comp.): Gases under pressure – Compressed gas  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1A: Skin sensitisation – Category 1A  
Carc. 2: Carcinogenicity – Category 2  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

EU