

# Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.03.2025

Version number 13 (replaces version 12)

Revision: 18.03.2025

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

### 1.1 Product identifier

Trade name: **Turbo Gloss 2K-UHS Clearcoat 2:1**

Article number: 70601, 70602, 70600

UFI: 4SF0-70GC-000F-MCQ7

### 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

Flam. Liq. 3 H226 Flammable liquid and vapour.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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

Signal word

Warning

Hazard-determining components of labelling:

n-butyl acetate  
poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-  
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate  
pentaerythritol tetrakis(3-mercaptopropionate)  
H226 Flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

Hazard statements

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

(Contd. on page 2)

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.03.2025

Version number 13 (replaces version 12)

Revision: 18.03.2025

**Trade name:** Turbo Gloss 2K-UHS Clearcoat 2:1

(Contd. of page 1)

P103	Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P312	IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
	EUH066 Repeated exposure may cause skin dryness or cracking.

· Additional information:· **2.3 Other hazards**· Results of PBT and vPvB assessment· PBT: Not applicable.· vPvB: Not applicable.· Determination of endocrine-disrupting properties

For information on endocrine disrupting properties see section 11.

**SECTION 3: Composition/information on ingredients**· **3.2 Mixtures**· Description: Mixture of substances listed below with nonhazardous additions.· Dangerous components:

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	12.5-25%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	<12.5%
CAS: 128601-23-0 EC number: 918-668-5 Index number: 649-356-00-4 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H335-H336 EUH066	1-5%
CAS: 104810-47-1 ELINCS: 400-830-7 Index number: 607-176-00-3 Reg.nr.: 01-2119396032-43 01-0000015075-76-xxxx	poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]- Aquatic Chronic 2, H411 Skin Sens. 1, H317	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%
CAS: 7575-23-7 EINECS: 231-472-8 Reg.nr.: 01-2119486981-23-0000	pentaerythritol tetrakis(3-mercaptopropionate) Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317	<1%

(Contd. on page 3)

EU

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.03.2025

Version number 13 (replaces version 12)

Revision: 18.03.2025

**Trade name:** Turbo Gloss 2K-UHS Clearcoat 2:1

(Contd. of page 2)

· 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: Take affected persons out into the fresh air.  
Position and transport stably in side position.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.  
If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Induce vomiting only, if affected person is fully conscious.  
If symptoms persist consult doctor.

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

Breathing difficulty  
Headache  
Dizziness  
Dizziness  
Danger of impaired breathing.

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

If swallowed, gastric irrigation with added, activated carbon.  
If swallowed or in case of vomiting, danger of entering the lungs.

**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.

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

Water with full jet

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

Formation of toxic gases is possible during heating or in case of fire.  
In case of fire, the following can be released:  
Carbon monoxide (CO)  
Nitrogen oxides (NO<sub>x</sub>)  
Under certain fire conditions, traces of other toxic gases cannot be excluded.

**· 5.3 Advice for firefighters**

- Protective equipment: Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.  
Wear fully protective suit.
- Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures****· 6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation  
Keep away from ignition sources.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.

(Contd. on page 4)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.03.2025

Version number 13 (replaces version 12)

Revision: 18.03.2025

**Trade name:** Turbo Gloss 2K-UHS Clearcoat 2:1

(Contd. of page 3)

- **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 of the material collected according to regulations.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- **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 receptacles tightly sealed.
  - Store in cool, dry place in tightly closed receptacles.
  - Keep away from heat and direct sunlight.
  - Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
  - Use only in well ventilated areas.
  - Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
  - Highly volatile, flammable constituents are released during processing.
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
  - Store only in the original receptacle.
  - Prevent any seepage into the ground.
- **Information about storage in one common storage facility:**
  - Store away from oxidising agents.
- **Further information about storage conditions:**
  - Store receptacle in a well ventilated area.
  - Store in a cool place.
  - Keep container tightly sealed.
- **Storage class:**
  - 3
- **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:

**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
-------	--

**108-65-6 2-methoxy-1-methylethyl acetate**

IOELV	Short-term value: 550 mg/m <sup>3</sup> , 100 ppm Long-term value: 275 mg/m <sup>3</sup> , 50 ppm Skin
-------	--

(Contd. on page 5)

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.03.2025

Version number 13 (replaces version 12)

Revision: 18.03.2025

**Trade name:** Turbo Gloss 2K-UHS Clearcoat 2:1

(Contd. of page 4)

**· DNELs****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)
	DNEL ( Langzeit-wiederholt)	6 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	11 mg/kg bw/day (ARB)
	DNEL ( Langzeit-wiederholt)	6 mg/kg bw/day (BEV)
Inhalative	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)

**108-65-6 2-methoxy-1-methylethyl acetate**

Oral	DNEL (Kurzzeit-akut)	500 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	1.67 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	796 mg/kg bw/day (ARB)
		54.8 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	550 mg/m <sup>3</sup> Air (ARB)
		33 mg/m <sup>3</sup> Air (BEV)
	DNEL (Langzeit-wiederholt)	275 mg/m <sup>3</sup> Air (ARB)
		33 mg/m <sup>3</sup> Air (BEV)

**128601-23-0 Hydrocarbons, C9, aromatics**

Oral	DNEL (Langzeit-wiederholt)	7.5 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	12.5 mg/kg bw/day (ARB)
		7.5 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	151 mg/m <sup>3</sup> Air (ARB)
		32 mg/m <sup>3</sup> Air (BEV)

**104810-47-1 poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H- benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-**

Oral	DNEL (Langzeit-wiederholt)	0.025 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	0.5 mg/kg bw/day (ARB)
		0.25 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	0.35 mg/m <sup>3</sup> Air (ARB)
		0.085 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)
	DNEL (Langzeit-wiederholt)	0.18 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	2.5 mg/kg bw/day (ARB)
	DNEL ( Langzeit-wiederholt)	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)

(Contd. on page 6)

EU

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.03.2025

Version number 13 (replaces version 12)

Revision: 18.03.2025

**Trade name:** Turbo Gloss 2K-UHS Clearcoat 2:1

(Contd. of page 5)

	DNEL (Langzeit-wiederholt)	1.27 mg/m <sup>3</sup> Air (ARB) 0.31 mg/m <sup>3</sup> Air (BEV)
--	----------------------------	--

## · PNECs

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

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)

**108-65-6 2-methoxy-1-methylethyl acetate**

PNEC (wässrig)	100 mg/l (KA) 0.0635 mg/l (MW) 0.635 mg/l (SW) 6.35 mg/l (WAS)
PNEC (fest)	0.29 mg/kg Trockengew (BO) 0.329 mg/kg Trockengew (MWS) 3.29 mg/kg Trockengew (SWS)

**104810-47-1 poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-**

PNEC (wässrig)	10 mg/l (KA) 0.00023 mg/l (MW) 0.0023 mg/l (SW) 0.028 mg/l (WAS)
PNEC (fest)	2 mg/kg Trockengew (BO) 0.337 mg/kg Trockengew (MWS) 3.37 mg/kg Trockengew (SWS)

**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:

Avoid close or long term contact with the skin.  
Do not eat, drink, smoke or sniff while working.  
Use skin protection cream for skin protection.  
Clean skin thoroughly immediately after handling the product.

(Contd. on page 7)

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31



Printing date 18.03.2025

Version number 13 (replaces version 12)

Revision: 18.03.2025

**Trade name: Turbo Gloss 2K-UHS Clearcoat 2:1**

(Contd. of page 6)

- Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Short term filter device:  
Filter A/P2  
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.
- Respiratory protection:
- Hand protection
-  Protective gloves
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
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  
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>).
- Material of gloves
- Butyl rubber, BR  
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.
- Penetration time of glove material
- Value for the permeation: Level  $\leq$  3, 60 min  
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  
Butoject (KCL, Art\_No. 897, 898)
- As protection from splashes gloves made of the following materials are suitable:
- Butyl rubber, BR  
Butoject (KCL, Art\_No. 897, 898)
- Not suitable are gloves made of the following materials:
- Leather gloves  
Strong material gloves
- Eye/face protection
-  Tightly sealed goggles
- Body protection:
- Protective work clothing

(Contd. on page 8)

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.03.2025

Version number 13 (replaces version 12)

Revision: 18.03.2025

**Trade name:** Turbo Gloss 2K-UHS Clearcoat 2:1

(Contd. of page 7)

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

· <u>General Information</u>	
· <u>Colour:</u>	Colourless
· <u>Odour:</u>	Specific type
· <u>Melting point/freezing point:</u>	Undetermined.
· <u>Boiling point or initial boiling point and boiling range</u>	124-128 °C
· <u>Lower and upper explosion limit</u>	
· <u>Lower:</u>	1.5 Vol %
· <u>Upper:</u>	10.8 Vol %
· <u>Flash point:</u>	27 °C (123-86-4 n-butyl acetate)
· <u>Auto-ignition temperature:</u>	315 °C
· <u>pH</u>	Not determined.
· <u>Viscosity:</u>	
· <u>Kinematic viscosity at 20 °C</u>	35 s (DIN 53211/4)
· <u>Dynamic:</u>	Not determined.
· <u>Solubility</u>	
· <u>water:</u>	Not miscible or difficult to mix.
· <u>Vapour pressure at 20 °C:</u>	10.7 hPa
· <u>Density and/or relative density</u>	
· <u>Density at 20 °C:</u>	1 g/cm <sup>3</sup>

**9.2 Other information**

· <u>Appearance:</u>	
· <u>Form:</u>	Fluid
· <u>Important information on protection of health and environment, and on safety.</u>	
· <u>Ignition temperature:</u>	Product is not selfigniting.
· <u>Explosive properties:</u>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <u>Solvent content:</u>	
· <u>Organic solvents:</u>	39.4 %
· <u>Solids content:</u>	58.5 %

**Information with regard to physical hazard classes**

· <u>Explosives</u>	Void
· <u>Flammable gases</u>	Void
· <u>Aerosols</u>	Void
· <u>Oxidising gases</u>	Void
· <u>Gases under pressure</u>	Void
· <u>Flammable liquids</u>	Flammable liquid and vapour.
· <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

(Contd. on page 9)

EU

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.03.2025

Version number 13 (replaces version 12)

Revision: 18.03.2025

**Trade name:** Turbo Gloss 2K-UHS Clearcoat 2:1

(Contd. of page 8)

**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 and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
  - Reacts with strong acids.
  - Reacts with strong alkali.
  - Reacts with strong oxidising agents.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
  - Carbon monoxide and carbon dioxide
  - Nitrogen oxides (NO<sub>x</sub>)
  - Possible in traces.

**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:

**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)

**108-65-6 2-methoxy-1-methylethyl acetate**

Oral	LD50	8,500 mg/kg (rat) (OECD 401)
	NOAEL-Werte	1,500 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit) (OECD 402)
		>2,000 mg/kg (rat)
Inhalative	LC50/4h	>10,000 mg/m <sup>3</sup> (rat)
	LC50	>23.8 mg/l (rat)
	LC50/4 h	35.7 mg/l (rat)
	LC50/48h	100 mg/l (Desmodesmus subspicatus)

**128601-23-0 Hydrocarbons, C9, aromatics**

Oral	LD50	3,495 mg/kg (rat) (OECD 401)
Dermal	LD50	>3,160 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	>6,193 mg/l (rat)

**104810-47-1 poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-**

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

**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	LD50	3,230 mg/kg (rat)
------	------	-------------------

(Contd. on page 10)

EU

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.03.2025

Version number 13 (replaces version 12)

Revision: 18.03.2025

**Trade name:** Turbo Gloss 2K-UHS Clearcoat 2:1

(Contd. of page 9)

Dermal	LD50	>3,170 mg/kg (rat)
<b>7575-23-7 pentaerythritol tetrakis(3-mercaptopropionate)</b>		
Oral	LD50	500 mg/kg (ATE)
Inhalative	LC50/4 h	1.5 mg/l (ATE)

- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- 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:

#### **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) (OECD 202)
ErC50/72h	675 mg/l (Scenedesmus subspicatus)
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)
	397 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)
	mg/l (Oncorhynchus mykiss)
	18 mg/l (Pimephales promelas) (OECD 203)

#### **108-65-6 2-methoxy-1-methylethyl acetate**

EC50	>100 mg/l (daphnia magna)
LC50	63.5 mg/l (Oryzias latipes)
EC50/48h	>500 mg/l (daphnia magna) (RL 67/548/EWG. Anhang V, C.2.)
ErC50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC20/0.5h	>1,000 mg/l (BES) (OECD 209)

(Contd. on page 11)

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.03.2025

Version number 13 (replaces version 12)

Revision: 18.03.2025

**Trade name: Turbo Gloss 2K-UHS Clearcoat 2:1**

(Contd. of page 10)

NOEC	47.5 mg/l (Oryzias latipes)
NOEC/21d	≥100 mg/l (daphnia magna)
EC10	>1,000 mg/l (BES)
EC50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	100-180 mg/l (Oncorhynchus mykiss) >1,000 mg/l (Oryzias latipes) 161 mg/l (Pimephales promelas)

**128601-23-0 Hydrocarbons, C9, aromatics**

EC50/96h	9.2 mg/l (Oncorhynchus mykiss)
LC50	1-10 mg/l (daphnia magna)
ErC50/72h	0.42 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EL50/48h	3.2 mg/l (daphnia magna) (OECD 202)
EL50/72h	2.6-2.9 mg/l (Pseudokirchneriella subcapitata) 2.9 mg/l (selenastrum capricornutum)
LL50/96h	9.2 mg/l (Oncorhynchus mykiss) (OECD 203)
LL0/96h	9.2 mg/l (Oncorhynchus mykiss)
NOELR/72h	1 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	7.4 mg/l (daphnia magna)
EC50/72h	0.29 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

**104810-47-1 poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-**

EC50	>1,000 mg/l (BES) (OECD 209)
EC50/48h	4 mg/l (daphnia magna)
LC 0	>1,000 mg/l (Eisenia fetida ( Regenwürmer))
NOEC	100 mg/kg (Eisenia fetida ( Regenwürmer))
NOEC/21d	0.78 mg/l (daphnia magna) (OECD 202)
EC10	10 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC50/72h	>100 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LC50/96h	2.8 mg/l (Oncorhynchus mykiss) (OECD 203; ISO 7346; 84/449/EWG, C.1)

**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**

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.

(Contd. on page 12)

EU

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.03.2025

Version number 13 (replaces version 12)

Revision: 18.03.2025

**Trade name:** Turbo Gloss 2K-UHS Clearcoat 2:1

(Contd. of page 11)

· **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.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly 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

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

· Uncleaned packaging:

· Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

· Recommended cleansing agents:

Alcohol

### SECTION 14: Transport information

· **14.1 UN number or ID number**

· ADR, IMDG, IATA

UN1263

· **14.2 UN proper shipping name**

· ADR

1263 PAINT

· IMDG, IATA

PAINT

· **14.3 Transport hazard class(es)**

· ADR



· Class

3 (F1) Flammable liquids.

· Label

3

· IMDG, IATA



· Class

3 Flammable liquids.

· Label

3

· **14.4 Packing group**

· ADR, IMDG, IATA

III

(Contd. on page 13)

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.03.2025

Version number 13 (replaces version 12)

Revision: 18.03.2025

**Trade name:** Turbo Gloss 2K-UHS Clearcoat 2:1

(Contd. of page 12)

**· 14.5 Environmental hazards:**

· Marine pollutant: No

**· 14.6 Special precautions for user**

Warning: Flammable liquids.

· Hazard identification number (Kemler code): 30

· EMS Number: F-E, S-E

· Stowage Category: A

**· 14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

## · Transport/Additional information:

## · ADR

· Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

· Transport category 3

· Tunnel restriction code D/E

## · IMDG

· Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation": UN 1263 PAINT, 3, III

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I

None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

· Qualifying quantity (tonnes) for the application of lower-tier requirements

5,000 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements

50,000 t

· REGULATION (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3

· 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

None of the ingredients is listed.

(Contd. on page 14)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.03.2025

Version number 13 (replaces version 12)

Revision: 18.03.2025

**Trade name: Turbo Gloss 2K-UHS Clearcoat 2:1**

(Contd. of page 13)

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

None of the ingredients is listed.

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

None of the ingredients is listed.

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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

None of the ingredients is listed.

· VOC EU 393.6 g/l

· DECOPAINT: subject to EU-regulations 2004/42/EG (ANNEX II)

EU limit for this product (product-category (Kat. B/d)): 420g/l (2010). The ready-to-use product (comprises of clear lacquer and hardener) contains max. 420 g/l VOC.

· **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: 05.11.2024· Version number of previous version: 12

· Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
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  
ATE: Acute toxicity estimate values  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1A: Skin sensitisation – Category 1A  
Repr. 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

(Contd. on page 15)

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.03.2025

Version number 13 (replaces version 12)

Revision: 18.03.2025

**Trade name: Turbo Gloss 2K-UHS Clearcoat 2:1**

(Contd. of page 14)

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