

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 11.04.2023

Version number 3 (replaces version 2)

Revision: 11.04.2023

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

- 1.1 Product identifier

- Trade name: **1678 - Component A 1680**

- 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 Adhesives

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

Kisling AG
Motorenstrasse 102
CH-8620 Wetzikon
Tel: +41- 58-272 0 272

- Further information obtainable from: Product safety department

- Department issuing MSDS: info@kisling.com

- 1.4 Emergency telephone number:

Tox Info Suisse: 145 / +41-44-2 51 51 51
+49-700-24 112 112 (KAR)
+1 872 5888271

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

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

Skin Irrit. 2 H315 Causes skin irritation.
Eye Dam. 1 H318 Causes serious eye damage.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Repr. 2 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
STOT SE 3 H335 May cause respiratory irritation.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- 2.2 Label elements

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

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

- Hazard pictograms



GHS05 GHS07 GHS08 GHS09

- Signal word Danger

- Hazard-determining components of labelling:

Glycerin formal methacrylate
methacrylic acid
Propylidynetrimethanol, ethoxylated, esters with acrylic acid
2-Propenoic acid, 2-methyl-, 2-hydroxyethylester, phosphate

- Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H335 May cause respiratory irritation.

(Contd. on page 2)

CH-EN

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.04.2023

Version number 3 (replaces version 2)

Revision: 11.04.2023

Trade name: 1678 - Component A 1680

(Contd. of page 1)

H411 Toxic to aquatic life with long lasting effects.

- Precautionary statements

P261 Avoid breathing vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

- 2.3 Other hazards**- Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****- 3.2 Mixtures****- Description:** Mixture of substances listed below with nonhazardous additions.**- Dangerous components:**

EC number: 945-527-5	Glycerin formal methacrylate Repr. 2, H361; Aquatic Chronic 3, H412	> 30 - ≤ 50%
CAS: 79-41-4 EINECS: 201-204-4 Index number: 607-088-00-5	methacrylic acid Acute Tox. 3, H311; Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335 Specific concentration limit: STOT SE 3; H335: C ≥ 1 %	≥ 3 - < 5%
CAS: 28961-43-5 NLP: 500-066-5	Propylidynetrimethanol, ethoxylated, esters with acrylic acid Eye Irrit. 2, H319; Skin Sens. 1, H317	> 1 - ≤ 5%
CAS: 52628-03-2 EINECS: 258-053-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethylester, phosphate Eye Dam. 1, H318; Skin Irrit. 2, H315	> 1 - < 3%
EC number: 911-490-9	N,N-Bis-(2-hydroxyethyl)-para-toluidine, ethoxylated Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥ 0.1 - < 1%
CAS: 80-62-6 EINECS: 201-297-1 Index number: 607-035-00-6	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	≥ 0.1 - < 1%
CAS: 91-66-7 EINECS: 202-088-8 Index number: 612-054-00-8	N,N-diethylaniline Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT RE 2, H373; Aquatic Chronic 2, H411	≥ 0.25 - ≤ 1%
CAS: 128-37-0 EINECS: 204-881-4	Butylated hydroxytoluene Aquatic Chronic 1, H410	≥ 0.25 - ≤ 1%
CAS: 112-55-0 EINECS: 203-984-1	dodecane-1-thiol Skin Corr. 1C, H314; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=10); Skin Sens. 1A, H317	≥ 0.1 - < 0.25%
CAS: 102-82-9 EINECS: 203-058-7	tributylamine Acute Tox. 3, H311; Acute Tox. 1, H330; Acute Tox. 4, H302; Skin Irrit. 2, H315	≤ 1%
CAS: 26741-53-7	3,9-Bis(2,4-di-tert.-butyl phenoxy)-2,4,8,10-tetroxa-3,9-diphosphaspiro[5.5]undecane Aquatic Chronic 1, H410	≥ 0.025 - < 0.25%

(Contd. on page 3)

CH-EN

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.04.2023

Version number 3 (replaces version 2)

Revision: 11.04.2023

Trade name: 1678 - Component A 1680

(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:** Immediately remove any clothing soiled by the product.

- 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:

After contact with skin, wash immediately with plenty of soap and water.

If skin irritation continues, consult a doctor.

- After eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

- After swallowing:

Rinse out mouth and then drink plenty of water.

If swallowed, do not induce vomiting; seek medical advice and show this container or label.

- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

- 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:** Use fire extinguishing methods suitable to surrounding conditions.

- 5.2 Special hazards arising from the substance or mixture

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.

Do not inhale explosion gases or combustion gases.

- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

- 6.2 Environmental precautions:

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

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

- 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

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

Dispose of the material collected according to regulations.

- 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 10 for information on "stability and reactivity".

See Section 13 for disposal information.

CH-EN

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.04.2023

Version number 3 (replaces version 2)

Revision: 11.04.2023

Trade name: 1678 - Component A 1680

(Contd. of page 3)

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers):** 10-13
- **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:**

79-41-4 methacrylic acid

MAK (Switzerland)	Short-term value: 360 mg/m ³ , 100 ppm Long-term value: 180 mg/m ³ , 50 ppm SSc;
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80-62-6 methyl methacrylate

MAK (Switzerland)	Short-term value: 420 mg/m ³ , 100 ppm Long-term value: 210 mg/m ³ , 50 ppm S SSc;
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- DNELs

80-62-6 methyl methacrylate

Dermal	Longterm System	13.67 mg/kg bw/day (Worker)
Inhalative	Longterm System	208 mg/m ³ (Worker)

- PNECs

80-62-6 methyl methacrylate

PNEC Freshwater	0.94 mg/l
PNEC Freshwater sed	5.74 mg/kg
PNEC Marinewater	0.94 mg/l
PNEC Soil	1.47 mg/kg

- **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:**
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
Filter ABEK
- **Hand protection**
Protective gloves (EN 374)
Check protective gloves prior to each use for their proper condition.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.04.2023

Version number 3 (replaces version 2)

Revision: 11.04.2023

Trade name: 1678 - Component A 1680

(Contd. of page 4)

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

- 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.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye/face protection Tightly sealed goggles

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Colour:	White
- Odour:	Characteristic
- Odour threshold:	Not determined.
- Melting point/freezing point:	Undetermined.
- Boiling point or initial boiling point and boiling range	Undetermined.
- Flammability	Not applicable.
- Lower and upper explosion limit	
- Lower:	Not determined.
- Upper:	Not determined.
- Flash point:	> 60 °C
- 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:	Not determined.
- Density and/or relative density	
- Density:	Not determined.
- Relative density	Not determined.
- Vapour density	Not determined.

- 9.2 Other information

- Appearance:	
- Form:	Fluid
- Important information on protection of health and environment, and on safety.	
- Ignition temperature:	Product is not self-igniting.
- Explosive properties:	Product does not present an explosion hazard.
- Solvent separation test:	
- Solids content:	100.0 %
- Change in condition	
- Softening point/range	
- Oxidising properties	Not determined.
- Evaporation rate	Not determined.

(Contd. on page 6)

CH-EN

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.04.2023

Version number 3 (replaces version 2)

Revision: 11.04.2023

Trade name: 1678 - Component A 1680

(Contd. of page 5)

- Information with regard to physical hazard classes	
- Explosives	Void
- Flammable gases	Void
- Aerosols	Void
- Oxidising gases	Void
- Gases under pressure	Void
- Flammable liquids	Void
- Flammable solids	Void
- Self-reactive substances and mixtures	Void
- Pyrophoric liquids	Void
- Pyrophoric solids	Void
- Self-heating substances and mixtures	Void
- Substances and mixtures, which emit flammable gases in contact with water	Void
- Oxidising liquids	Void
- Oxidising solids	Void
- Organic peroxides	Void
- Corrosive to metals	Void
- Desensitised explosives	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 and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
No dangerous reactions if used and stored according to specifications.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
No dangerous products of decomposition if used and stored according to specifications.

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:

79-41-4 methacrylic acid		
Oral	LD50	1,320 - 2,260 mg/kg (Rat, male/female)
Dermal	LD50	500 - 1,000 mg/kg (Rabbit)
Inhalative	LC50/4 h	7,100 mg/l (Rat, male/female)
N,N-Bis-(2-hydroxyethyl)-para-toluidine, ethoxylated		
Oral	LD50	619 mg/kg
Dermal	LD50	> 2,000 mg/kg
80-62-6 methyl methacrylate		
Oral	LD50	7,872 mg/kg (Rat, male/female)
Dermal	LD50	> 5,000 mg/kg (Rabbit)
Inhalative	LC50/4 h	78,000 mg/l (Rat, male/female)
91-66-7 N,N-diethylaniline		
Oral	LD50	606 mg/kg (Rat, male/female)

(Contd. on page 7)

CH-EN

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.04.2023

Version number 3 (replaces version 2)

Revision: 11.04.2023

Trade name: 1678 - Component A 1680

(Contd. of page 6)

Dermal	LD50	> 5,000 mg/kg (Rat, male/female)
Inhalative	LC50/4 h => LC50/4	1.92 mg/l (Rat, male/female)

102-82-9 tributylamine

Inhalative	LC50/4 h	0.5 mg/l (Rat, male/female)
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- Skin corrosion/irritation

Causes skin irritation.

- Serious eye damage/irritation

Causes serious eye damage.

- 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

Suspected of damaging fertility. Suspected of damaging the unborn child.

- STOT-single exposure

May cause respiratory irritation.

- 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.

- Additional toxicological information:

No experimentally found toxicological data are available for this preparation.

- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Repr. 2

- 11.2 Information on other hazards
- Endocrine disrupting properties

128-37-0	Butylated hydroxytoluene	List II
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*** SECTION 12: Ecological information**
- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.

- 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 For information on endocrine disrupting properties see section 11.

- 12.7 Other adverse effects No further relevant information available.

- Remark: Harmful to fish

- Additional ecological information:
- General notes:

Harmful to aquatic organisms

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

Danger to drinking water if even small quantities leak into the ground.

Do not allow product to reach ground water, water course or undiluted sewage system.

SECTION 13: Disposal considerations
- 13.1 Waste treatment methods
- Recommendation Disposal must be made according to official regulations.

(Contd. on page 8)

CH-EN

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.04.2023

Version number 3 (replaces version 2)



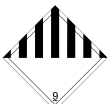

Revision: 11.04.2023

Trade name: 1678 - Component A 1680

(Contd. of page 7)

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

<ul style="list-style-type: none"> - 14.1 UN number or ID number - ADR, IMDG, IATA 	UN3082
<ul style="list-style-type: none"> - 14.2 UN proper shipping name - ADR - IMDG - IATA 	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N,N-DIETHYLANILINE, dodecane-1-thiol) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N,N-DIETHYLANILINE, dodecane-1-thiol), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N,N-DIETHYLANILINE, dodecane-1-thiol)
<ul style="list-style-type: none"> - 14.3 Transport hazard class(es) - ADR 	<div style="display: flex; align-items: center; gap: 10px;">   </div> <ul style="list-style-type: none"> - Class - Label
<ul style="list-style-type: none"> - IMDG, IATA 	<div style="display: flex; align-items: center; gap: 10px;">   </div> <ul style="list-style-type: none"> - Class - Label
<ul style="list-style-type: none"> - 14.4 Packing group - ADR, IMDG, IATA 	III
<ul style="list-style-type: none"> - 14.5 Environmental hazards: - Marine pollutant: - Special marking (ADR): - Special marking (IATA): 	Product contains environmentally hazardous substances: dodecane-1-thiol Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> - 14.6 Special precautions for user - Hazard identification number (Kemler code): - EMS Number: - Stowage Category 	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A
<ul style="list-style-type: none"> - 14.7 Maritime transport in bulk according to IMO instruments 	Not applicable.

(Contd. on page 9)

CH-EN

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.04.2023

Version number 3 (replaces version 2)

Revision: 11.04.2023

Trade name: 1678 - Component A 1680

(Contd. of page 8)

<p>- Transport/Additional information:</p>	<p>ADR: SV375 IMDG-Code: 2.10.2.7 IATA-DGR: A197 (375)</p>
<p>- ADR - Limited quantities (LQ) - Excepted quantities (EQ)</p> <p>- Transport category - Tunnel restriction code - Remarks:</p>	<p>5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 (-) SV375: These substances are not subject to the other provisions of ADR / RID if they are transported in individual or composite packaging with a net quantity of no more than 5 l of liquid substances or a net mass of no more than 5 kg of solids per individual or inner packaging, provided that the packaging is used correspond to the general provisions of subsections 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.</p>
<p>- IMDG - Limited quantities (LQ) - Excepted quantities (EQ)</p> <p>- Remarks:</p>	<p>5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 2.10.2.7: Marine pollutants in individual packaging or composite packaging with a net quantity per individual or inner packaging of no more than 5 L for liquids or a net mass per individual or inner packaging of no more than 5 kg for solids are not subject to any other provisions of this Code applicable to marine pollutants, provided that the packaging complies with the general Meet the requirements in 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants that also meet the criteria for inclusion in another class, all provisions of this Code that apply to any further hazards continue to apply.</p>
<p>- IATA - Remarks:</p>	<p>A 197 (375): These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.</p>
<p>- UN "Model Regulation":</p>	<p>UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N,N-DIETHYLANILINE, DODECANE-1-THIOL), 9, III</p>

CH-EN

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.04.2023

Version number 3 (replaces version 2)

Revision: 11.04.2023

Trade name: 1678 - Component A 1680

(Contd. of page 9)

* **SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **National regulations:**

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

- **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.

- **Relevant phrases**

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361 Suspected of damaging fertility or the unborn child.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

- **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

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 1: Acute toxicity – Category 1

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Repr. 2: Reproductive toxicity – 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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

(Contd. on page 11)

CH-EN

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 11.04.2023

Version number 3 (replaces version 2)

Revision: 11.04.2023

Trade name: 1678 - Component A 1680

(Contd. of page 10)

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

- * Data compared to the previous version altered.

-CH-EN-