

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

Printing date 25.06.2019

Version number 5.0

Revision: 25.06.2019

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

- **1.1 Product identifier**
- **Trade name:** Epilox® A 19-03
- **Article number:** 0103
- **CAS Number:**
1675-54-3
- **EC number:**
216-823-5
- **Index number:**
603-073-00-2
- **Registration number** 01-2119456619-26-0006
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Product category**
 - PC1 Adhesives, sealants
 - PC9a Coatings and paints, thinners, paint removers
 - PC9b Fillers, putties, plasters, modelling clay
 - PC32 Polymer preparations and compounds
- **Process category**
 - PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
 - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
 - PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
 - PROC4 Chemical production where opportunity for exposure arises
 - PROC5 Mixing or blending in batch processes
 - PROC7 Industrial spraying
 - PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
 - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
 - PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
 - PROC10 Roller application or brushing
 - PROC11 Non industrial spraying
 - PROC13 Treatment of articles by dipping and pouring
 - PROC14 Tableting, compression, extrusion, pelletisation, granulation
 - PROC15 Use as laboratory reagent
 - PROC19 Manual activities involving hand contact
- **Environmental release category**
 - ERC1 Manufacture of the substance
 - ERC2 Formulation into mixture
 - ERC3 Formulation into solid matrix
 - ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
 - ERC5 Use at industrial site leading to inclusion into/onto article
 - ERC6a Use of intermediate
 - ERC6c Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)
 - ERC8c Widespread use leading to inclusion into/onto article (indoor)
 - ERC8f Widespread use leading to inclusion into/onto article (outdoor)
- **Technical function**
 - Monomers
 - Intermediate (precursor)
 - Binder
- **Application of the substance / the mixture** Epoxy binder
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
LEUNA-Harze GmbH
Am Haupttor, Bau 6619
D-06237 Leuna
Telefon 03461 43 3639

(Contd. on page 2)

GB

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

Printing date 25.06.2019

Version number 5.0

Revision: 25.06.2019

Trade name: Epilox® A 19-03

e-Mail: infomsds.harze@leuna.de

(Contd. of page 1)

· **Further information obtainable from:**

Abteilung Qualitätssicherung

Dr. Karin Bierögel

Telefon 03461 43 4654

Telefax 03461 43 4574

Telefon außerhalb der Geschäftszeit: 03461 43 6188

· **1.4 Emergency telephone number:**

Leitstelle Werkfeuerwehr

03461 434333

SECTION 2: Hazards identification· **2.1 Classification of the substance or mixture**· **Classification according to Regulation (EC) No 1272/2008**

GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

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.

· **2.2 Label elements**· **Labelling according to Regulation (EC) No 1272/2008**

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

· **Hazard pictograms**

GHS07



GHS09

· **Signal word Warning**· **Hazard-determining components of labelling:**

bis[4-(2,3-epoxypropoxy)phenyl]propane

· **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

· **2.3 Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2019

Version number 5.0

Revision: 25.06.2019

Trade name: Epilox® A 19-03

(Contd. of page 2)

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Description**
1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane
- **Identification number(s)**
- **EC number:** 216-823-5
- **Index number:** 603-073-00-2

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **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:**
If skin irritation continues, consult a doctor.
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.
- **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:**
CO₂, powder or water spray. Fight larger fires with water spray.
Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
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** Not required.
- **6.2 Environmental precautions:**
Do not allow to penetrate the ground/soil.
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:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2019

Version number 5.0

Revision: 25.06.2019

Trade name: Epilox® A 19-03

(Contd. of page 3)

- **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** Ensure good ventilation/exhaustion at the workplace.
- **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:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store receptacle in a well ventilated area.
Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.

· DNELs

1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

Oral	Acute - systemic effects	0.5 mg/kg bw/day (general population)
Dermal	Long term - systemic effects	0.0893 mg/kg bw/day (general population)
		0.75 mg/kg bw/day (worker)
Inhalative	Long term - systemic effects	0.87 mg/m ³ (general population)
		4.93 mg/m ³ (worker)

· PNECs

1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

PNEC aqua	0.006 mg/L (fresh water)
	0.001 mg/L (marine water)
PNEC sediment	0.341 mg/kg sediment (fresh water)
	0.034 mg/kg sediment (marine water)
PNEC STP	10 mg/l (sewage)
PNEC soil	0.065 mg/kg soil dw (soil)
PNEC oral	11 mg/kg food (secondary poisoning)

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

· 8.2 Exposure controls

· 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.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

· Respiratory protection:

- Filter A/P2
- Use suitable respiratory protective device only when aerosol or mist is formed.

(Contd. on page 5)

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

Printing date 25.06.2019

Version number 5.0

Revision: 25.06.2019

Trade name: Epilox® A 19-03

(Contd. of page 4)

· Protection of hands:

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

· Material of gloves

Recommended thickness of the material: ≥ 0.4 mm

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.

Butyl rubber, BR

Nitrile rubber, NBR

· Penetration time of glove material

For the mixture of chemicals mentioned below the penetration time has to be at least > 480 minutes (Permeation according to EN 374 Part 3: Level 6).

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

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

· Eye protection:

Tightly sealed goggles

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties**· General Information****· Appearance:****Form:**

Viscous

Colour:

Light yellow

· Odour:

Nearly odourless

· Odour threshold:

Not determined.

· pH-value:

Not determined.

· Change in condition**Melting point/freezing point:**

30-50 °C

Initial boiling point and boiling range: > 320 °C (DSC)**Solidification point:** $- 16$ °C (TG)**· Flash point:**

266 °C (EU A.9)

· Flammability (solid, gas):

Not applicable.

· Ignition temperature:

455 °C

· Decomposition temperature:

Not determined.

· Auto-ignition temperature:

Not determined.

· Explosive properties:

Product does not present an explosion hazard.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2019

Version number 5.0

Revision: 25.06.2019

Trade name: Epilox® A 19-03

(Contd. of page 5)

· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure at 25 °C:	0.0000046 hPa
· Density at 20 °C:	1.17 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water at 20 °C:	0.0069 g/l
· aromatic hydrocarbons:	Not miscible or difficult to mix.
· organic solvents:	Miscible with many organic solvents.
· Partition coefficient: n-octanol/water:	0.51081 (modified shake flask test)
· Viscosity:	
Dynamic at 25 °C:	10 - 14 Pa.s
Kinematic:	Not determined.
· 9.2 Other information	No further relevant information available.

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**
Reacts with amines.
Reacts with acids.
Reacts with alkali (lyes).
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Irritant gases/vapours

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

Oral	LD50	15,000 mg/kg (rat)
Dermal	LD50	23,000 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **Repeated dose toxicity**
NOAEL (oral): 50 mg/kg bw/day
NOAEL (dermal): 100 mg/kg bw/day
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2019

Version number 5.0

Revision: 25.06.2019

Trade name: Epilox® A 19-03

(Contd. of page 6)

- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **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.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

LC50/96h 2 mg/l (Oncorhynchus mykiss)

EC50/48h 1.8 mg/l (daphnia magna)

EC50/72h 11 mg/l (algae)

- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** The product is not easily biodegradable.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
 Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies.
 Toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
 Must be specially treated adhering to official regulations.
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:**
 Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN3082
- **14.2 UN proper shipping name**
- **ADR** 3082 UMWELTGEFÄHRDENDER STOFF, FLÜSSIG, N.A.G. (Epoxidharz)
- **IMDG** VIROMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide resin), MARINE POLLUTANT
- **IATA** VIROMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide resin)

(Contd. on page 8)

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

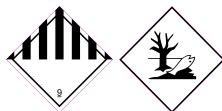
Printing date 25.06.2019

Version number 5.0

Revision: 25.06.2019

Trade name: Epilox® A 19-03

(Contd. of page 7)

· **14.3 Transport hazard class(es)**· **ADR, IMDG, IATA**

· **Class** 9 Miscellaneous dangerous substances and articles.
 · **Label** 9

· **14.4 Packing group**

· **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:**

Product contains environmentally hazardous substances:
 bis[4-(2,3-epoxypropoxy)phenyl]propane

· **Marine pollutant:**

Yes
 Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

· **Special marking (IATA):**

Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Miscellaneous dangerous substances and articles.

· **Danger code (Kemler):**

90

· **EMS Number:**

F-A,S-F

· **Stowage Category**

A

· **14.7 Transport in bulk according to Annex II of
 Marpol and the IBC Code**

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**

-

· **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 3082 EVIROMENTALLY HAZARDOUS SUBSTANCE,
 LIQUID, N.O.S. (EPOXIDE RESIN), 9, III

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· **TSCA (Toxic Substances Control Act):**

ACTIVE

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** Substance is not listed.

· **Seveso category E2** Hazardous to the Aquatic Environment

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2019

Version number 5.0

Revision: 25.06.2019

Trade name: Epilox® A 19-03

(Contd. of page 8)

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **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 2 (Assessment by list): hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has 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.

- **Department issuing SDS:** Abteilung Qualitätssicherung
- **Contact:** Fr. Dr. Bierögel
- **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 européen sur le transport 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
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
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

GB

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2019

Version number 5.0

Revision: 25.06.2019

Trade name: Epilox® A 19-03

(Contd. of page 9)

Annex: Exposure scenario

- **Short title of the exposure scenario** Epilox® A 19-03
- **Product category**
 - PC1 Adhesives, sealants
 - PC9a Coatings and paints, thinners, paint removers
 - PC9b Fillers, putties, plasters, modelling clay
 - PC32 Polymer preparations and compounds
- **Process category**
 - PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
 - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
 - PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
 - PROC4 Chemical production where opportunity for exposure arises
 - PROC5 Mixing or blending in batch processes
 - PROC7 Industrial spraying
 - PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
 - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
 - PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
 - PROC10 Roller application or brushing
 - PROC11 Non industrial spraying
 - PROC13 Treatment of articles by dipping and pouring
 - PROC14 Tableting, compression, extrusion, pelletisation, granulation
 - PROC15 Use as laboratory reagent
 - PROC19 Manual activities involving hand contact
- **Environmental release category**
 - ERC1 Manufacture of the substance
 - ERC2 Formulation into mixture
 - ERC3 Formulation into solid matrix
 - ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
 - ERC5 Use at industrial site leading to inclusion into/onto article
 - ERC6a Use of intermediate
 - ERC6c Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)
 - ERC8c Widespread use leading to inclusion into/onto article (indoor)
 - ERC8f Widespread use leading to inclusion into/onto article (outdoor)
- **Technical function**
 - Monomers
 - Intermediate (precursor)
 - Binder
- **Notes**
 - Do not use for private / domestic purposes (household).
 - The product is not intended for private use.
- **Description of the activities / processes covered in the Exposure Scenario**
 - See full text of the descriptors in section 1.
- **Conditions of use** Customary application according to section 1.
- **Duration and frequency** 5 workdays/week.
- **Worker** 8hrs (full working shift).
- **Environment** The product must not enter the sewage system or the aquatic environment.
- **Physical parameters**
 - The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Used amount per time or activity** According to directions for use.
- **Other operational conditions** Observe the general safety regulations when handling chemicals.

(Contd. on page 11)

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

Printing date 25.06.2019

Version number 5.0

Revision: 25.06.2019

Trade name: Epilox® A 19-03

(Contd. of page 10)

- **Other operational conditions affecting environmental exposure**
Observe section 6 of the Safety Data Sheet (Accidental release measures).
Use only on hard ground.
- **Other operational conditions affecting worker exposure**
Avoid contact with the skin, eyes and clothing.
Avoid contact with eyes.
Avoid contact with the skin.
Avoid long-term or repeated skin contact.
Indoor application.
Outdoor application.
- **Other operational conditions affecting consumer exposure** Keep out of the reach of children.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures**
Ensure good ventilation/exhaustion at the workplace.
Store in cool, dry place in tightly closed receptacles.
Use product only in enclosed systems.
Ensure that suitable extractors are available on processing machines
- **Personal protective measures**
Avoid contact with the eyes and skin.
The usual precautionary measures are to be adhered to when handling chemicals.
Store protective clothing separately.
Keep away from foodstuffs, beverages and feed.
Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
Avoid contact with the eyes.
Tightly sealed goggles
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
- **Measures for consumer protection**
Ensure adequate labelling.
Keep locked up and out of the reach of children.
- **Environmental protection measures**
Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.
- **Air** No special measures required.
- **Water**
Do not allow to reach ground water, water bodies or sewage system.
Do not allow to reach sewage system.
- **Soil** Prevent contamination of soil.
- **Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.
- **Disposal measures**
Forward for special waste incineration in compliance with local legal provisions.
Ensure that waste is collected and contained.
- **Disposal procedures**
Product residues are incinerated as special waste.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Liquid product residues
- **Exposure estimation**
- **Worker (dermal)**
The exposure estimation was carried out in accordance with ECETOC TRA.
The calculated value is smaller than the DNEL.
- **Worker (inhalation)**
The exposure estimation was carried out in accordance with ECETOC TRA.

(Contd. on page 12)

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

Printing date 25.06.2019

Version number 5.0

Revision: 25.06.2019

Trade name: Epilox® A 19-03

(Contd. of page 11)

The calculated value is smaller than the DNEL.

- **Environment** *The calculated value is smaller than the PNEC.*
- **Consumer** *Not relevant for this Exposure Scenario.*
- **Guidance for downstream users** *No further relevant information available.*

GB