

Safety data sheet

according to Regulation (EC) No. 1907/2006 as amended from
time to time

Printing date 18.07.2023

Version-No. 8 (replaces version 7)

Revision: 14.07.2023

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

- **1.1. Product identifier**
- Trade name / Article-No: **KLEIBERIT 701.0**
- UFI: 95DP-K02A-S00F-5VNF
- **1.2. Relevant identified uses of the substance / mixture or uses advised against**
For professional users only.
- **Application of the substance / the mixture** Adhesives
- **1.3. Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
KLEIBERIT SE & Co. KG
Max-Becker-Str. 4
76356 Weingarten
Germany
- **Further information obtainable from:**
phone: +49 (0) 7244 62-0
FAX: +49 (0) 7244 700-0
E-Mail: hse@kleiberit.com
- **1.4. Emergency telephone number:**
+44 1235 239670 European regional number (European languages)
112 Emergency telephone number for Malta
543 22 22 Icelandic University Hospital

SECTION 2: Hazards identification

- **2.1. Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008 - GHS/CLP**
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Carc. 2 H351 Suspected of causing cancer.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **2.2. Label elements**
- **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**
diphenylmethane-4,4'-diisocyanate
- **Hazard statements**
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P261 Avoid breathing vapours.
P273 Avoid release to the environment.

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P280 Wear protective gloves.

P314 Get medical advice/attention if you feel unwell.

- **Additional information:**

Contains isocyanates. May produce an allergic reaction.

As from 24 August 2023 adequate training is required before industrial or professional use.

- **Information concerning particular hazards for human and environment:**

- Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

- Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

- This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

- **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:**

Registry-No's	Identification / Classification GHS-CLP	%
CAS: 101-68-8 Reg.nr.: 01-2119457014-47-XXXX	diphenylmethane-4,4'-diisocyanate Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; C ≥ 5 %	≥1-<2.5%
Reg.nr.: 01-2119396032-43-XXXX	reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) Aquatic Chronic 2, H411; Skin Sens. 1, H317	≥0.25-<0.5%
Reg.nr.: 01-2119491304-40-xxxx	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	≥0.1-<0.25%
CAS: 36443-68-2 Reg.nr.: 01-2119956160-44-XXXX	Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate] Aquatic Chronic 1, H410 (M=10)	≥0.025-<0.25%

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

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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.

Take affected persons into fresh air and keep quiet.

After skin contact:

After contact with the molten product, cool rapidly with cold water.

Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Call for a doctor immediately.

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

Asthma attacks

Allergic reactions

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 or alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Isocyanates

Nitrogen oxides (NO_x)

Traces: Hydrogen cyanide (HCN)

5.3. Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

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.

6.3. Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

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

Handle the substance preferably in closed system

Enclosure or extractor facilities are required.

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the vapour concentration below the workplace limit, wear an adequate respiratory protective device.

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Not less than 3-5 air exchanges per hour

Appropriate regular employee training.

Skin contact and inhalation of aerosols/vapours of the preparation should be avoided.

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

Use only in well ventilated areas.

Prevent formation of dust.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

Avoid contact with skin and eyes.

It is advised against using the product if there is a sensitivity of the airways or skin (asthma, chronic bronchitis, chronic skin disease)

additional to professional application with multiple and/or significant contact

limit the exposure to 4 hours

· **General protective and hygienic measures:** Immediately remove all soiled and contaminated clothing· **7.2. Conditions for safe storage, including any incompatibilities**· **Storage:**· **Requirements to be met by storerooms and receptacles:** Keep container tightly closed.· **Information about storage in one common storage facility:** Observe the national regulations.· **Further information about storage conditions:** Protect from humidity and water.· **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:**· **DNELs****101-68-8 diphenylmethane-4,4'-diisocyanate**

Dermal DNEL short term 50 mg/kg (human being)

Inhalative DNEL short term 0.1 mg/m³ (human being)DNEL long term 0.05 mg/m³ (human being)**reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)**

Dermal DNEL 0.025 mg/kg (human being)

reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Dermal DNEL long term 2.5 mg/kg (human being)

Inhalative DNEL short term 2.35 mg/m³ (human being)DNEL long term 2.35 mg/m³ (human being)**36443-68-2 Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]**

Dermal DNEL long term 6.7 mg/kg (human being)

Inhalative DNEL long term 23.5 mg/m³ (human being)· **PNECs****101-68-8 diphenylmethane-4,4'-diisocyanate**

PNEC- Freshwater 1 mg/l (not specified)

PNEC-seawater 0.1 mg/l (not specified)

PNEC-periodic release 10 mg/l (not specified)

PNEC-Freshwater sediment 1 mg/kg (not specified)

PNEC-soil 1 mg/kg (not specified)

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PNEC-wastewater treatment plant 1 mg/l (not specified)

reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

PNEC- Freshwater 0.023 mg/l (not specified)
 PNEC-seawater 0.00046 mg/l (not specified)
 PNEC-Freshwater sediment 7.26 mg/kg (not specified)
 PNEC-soil 14.52 mg/kg (not specified)
 PNEC-wastewater treatment plant 0.34 mg/l (not specified)

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-seawater 0.00022 mg/l (not specified)
 PNEC-Freshwater sediment 1.05 mg/kg (not specified)
 PNEC-Seawater sediment 0.11 mg/kg (not specified)
 PNEC-soil 0.21 mg/kg (not specified)

36443-68-2 Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]

PNEC-wastewater treatment plant 1 mg/l (x00)

· **Ingredients with biological limit values:**

101-68-8 diphenylmethane-4,4'-diisocyanate

BGW (Germany) 10 µg/g Kreatinin
 Untersuchungsmaterial: Urin
 Probennahmezeitpunkt: Expositionsende bzw. Schichtende
 Parameter: 4,4'-Diaminodiphenylmethan

· **CAS No. Designation of material % Type Value Unit**

101-68-8 diphenylmethane-4,4'-diisocyanate

AGW (Germany) Long-term value: 0.05 E mg/m³
 1;=2=(I);DFG, 11, 12, H, Sah, Y

· **8.2. Exposure controls**

limit the exposure to:

8 hours

additional to professional application with multiple and/or significant contact

limit the exposure to 4 hours

· **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.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation:

Filter A (DIN EN 14 387)

At spray application respiratory protection must be worn.

· **Hand protection**

Protective gloves

Heat resistant gloves

· **Material of gloves**

A Nitrile rubber - NBR: AlphaTec® (> 0,4 mm)

Leather gloves

· **Eye/face protection** Safety glasses

· **Body protection:** Protective work clothing

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- **Thermal hazards** Risk of burns during thermal processing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

- **Physical state** Solid
- **Colour:** According to product specification
- **Odour:** Weak, characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** Undetermined.
- **Flammability** Not determined.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Flash point:** >200 °C
- **Auto-ignition temperature:** >300 °C
- **Decomposition temperature:** Not determined.
- **pH** Mixture is non-soluble (in water).
- **Viscosity:** At room temperature: not applicable
- **Kinematic viscosity** Not applicable.
- **Dynamic:** Not applicable.
- **Solubility**
- **water:** Insoluble.
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Vapour pressure:** Not applicable.
- **Density and/or relative density**
- **Density at 20 °C:** ca. 1.1 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not applicable.
- **Particle characteristics**
- See section 3.

9.2. Other information

- **Appearance:**
- **Form:** Solid
- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Solvent separation test:**
- **Organic solvents:** 0.5 %
- **Change in condition**
- **Evaporation rate** Not applicable.

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

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· 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**

see item 10.3

No further relevant information available.

· **10.2. Chemical stability** Stable when stored and used properly.· **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** No further relevant information available.· **10.5. Incompatible materials:** No further relevant information available.· **10.6. Hazardous decomposition products:** Isocyanates· **Additional information:**

When hotmelt adhesives are melted and applied, vapours are set free and an unpleasant odour can occur, even if the recommended working temperature has been observed. Moreover if the prescribed working temperature is exceeded over a longer period, harmful decomposition products can develop. Precautions should be taken to eliminate the vapours, e.g. by using a suitable ventilation system.

Therefore measures for the elimination of the vapours have to be taken, e.g. by means of an appropriate ventilation/ exhaust device.

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:****101-68-8 diphenylmethane-4,4'-diisocyanate**Oral LD₅₀ >2,000 mg/kg (rat) (84/449/EWG, B.1)Dermal LD₅₀ >9,400 mg/kg (rabbit) (OECD 402)Inhalative LC₅₀ /4 h 1.5 mg/l (not specified) (Calculation (ATE))**reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)**Oral LD₅₀ >5,000 mg/kg (rat)Dermal LD₅₀ >2,000 mg/kg (rat)Inhalative LC₅₀ >5.8 mg/l (rat)**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 3,125 mg/kg (rat)Dermal LD₅₀ 3,170 mg/kg (rat)**36443-68-2 Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]**Oral LD₅₀ >7,000 mg/kg (rat)Dermal LD₅₀ >2,000 mg/kg (rat)

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diphenylmethane-diisocyanate:

The test atmosphere generated in the animal study is not representative of workplace environments, how the substance is placed on the market, and how it can reasonably be expected to be used. Therefore the test result cannot be directly applied for the purpose of assessing hazard. Based on expert judgment and the weight of the evidence, a modified classification for acute inhalation toxicity is justified.

- **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 allergy or asthma symptoms or breathing difficulties if inhaled.
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** 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.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1. Toxicity**
- **Aquatic toxicity:**

101-68-8 diphenylmethane-4,4'-diisocyanateLC₅₀ >1,000 mg / l / 96h (fish)EC₅₀ >1,000 mg / l / 24h (water flea - daphnia)IC₅₀ >1,640 mg / l / 72h (algae)**reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)**LC₅₀ 2.8 mg / l / 96h (Fathead minnow - Pimephales promelas)EC₅₀ 4 mg / l / 48h (water flea - daphnia)EC₅₀ >9 mg / l / 72h (algae)**reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate**LC₅₀ 0.9 mg / l / 96h (Zebrafish - Danio rerio) (OECD 203)

7.9 mg / l / 96h (Fathead minnow - Pimephales promelas) (OECD 203)

0.97 mg / l / 96h (Bluegill - Lepomis macrochirus) (OECD 203)

EC₅₀ 20 mg / l / 24h (water flea - daphnia) (OECD 202)**36443-68-2 Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate]**LC₅₀ 43 mg / l / 96h (Bluegill - Lepomis macrochirus)EC₅₀ >100 mg / l / 48h (water flea - daphnia)

- **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.

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- **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects**

- **Behaviour in sewage processing plants:**

- **Remark:**

At correct sewage disposal in small quantities to biological sewage plants failures of the activated sludge are not expected.

- **Additional ecological information:**

- **General notes:** 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 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

- **Uncleaned packaging:**

- **Recommendation:**

Non contaminated packagings may be recycled.

Empty contaminated packagings thoroughly. Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1. UN number or ID number**

- **ADR, IMDG, IATA**

Void

- **14.2. UN proper shipping name**

- **DOT, ADR, IMDG, IATA**

Void

- **14.3. Transport hazard class(es)**

- **Class**

Void

- **14.4. Packing group**

- **ADR, IMDG, IATA**

Void

- **14.5. Environmental hazards:**

Not applicable.

- **14.6. Special precautions for user**

Not applicable.

- **14.7. Maritime transport in bulk according to IMO instruments**

Not applicable.

SECTION 15: Regulatory information

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

See position no 2 - Hazards Identification

- **Directive 2012/18/EU - Seveso-III:**

- **Named dangerous substances - ANNEX I** None of the ingredients is included.

- **Regulation (EC) No 1907/2006 - REACH, ANNEX XVII** Conditions of restriction: 56, 74

- **Regulation (EU) No 649/2012**

None of the ingredients is listed.

- **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.

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- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

- **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:**

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

- **Other regulations, limitations and prohibitive regulations:** For professional users only.

- **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**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H361f Suspected of damaging fertility.

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.

EUH204 Contains isocyanates. May produce an allergic reaction.

- **Department issuing SDS:** Safety & Environment

- **Version number of previous version:** 7

- **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

DOT: US Department of Transportation

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

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

Resp. Sens. 1: Respiratory sensitisation – Category 1

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

(Contd. on page 11)

Safety data sheet
according to Regulation (EC) No. 1907/2006 as amended from
time to time

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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

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