

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

Printing date 15.05.2024

Version number 6 (replaces version 5)

Revision: 15.05.2024

1 Identification of the substance/mixture and of the company/undertaking**· 1.1 Product identifier****· Trade name: 4225-B****· Other Means of Identification: Epoxy Conformal Coating****· Related Part Number:**

4225-B-Liquid, 4225-B-1.35L, 4225-B-2.7L, 4225-B-10.8L, 4225-B-60L, 4225-B-540L

· UFI: CQD0-S0SW-K00A-9NPY**· 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 Conformal coating epoxy hardener.**· 1.3 Details of the supplier of the safety data sheet M.G. Chemicals Ltd.****· Manufacturer/Supplier:**

MG Chemicals Ltd. (Head Office)
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA
+(1) 800-340-0772

MG Chemicals
Heame House, 23 Bliston Street
Sedgely Dudley DY3 1JA.
UNITED KINGDOM
+(44) 1663 362888 sales@mgchemicals.com

MG Chemicalst Ltd.
Level 2, Vision Exchange, Building Territorials Street,
Zone 1, Central Business, District,
Birkirkara CBD 1070,
MALTA

· Further information obtainable from: sds@mgchemicals.com**· 1.4 Emergency telephone number:**

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

Verisk 3E (Access code: 335388), +(44) 20 3514787

Other emergency telephone numbers: +(0) 800 680 0425

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)

USA or CANADA-Call Verisk 3E at +1-866-519-4752 or +1-760-476-3962 (Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 service

CANADA-Call CANUTEC collect at +1-613-996-6666 or *666 on cellular phones

GB

(Contd. on page 2)

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

Printing date 15.05.2024

Version number 6 (replaces version 5)

Revision: 15.05.2024

Trade name: 4225-B

(Contd. of page 1)

2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
 Skin Sens. 1 H317 May cause an allergic skin reaction.
 STOT SE 3 H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**



GHS02



GHS05



GHS07



GHS09

- **Signal word** Danger
- **Hazard-determining components of labelling:**
fatty acids, C18-unsatd., dimers, reactionproducts with polyethylenepolyamines
propan-2-ol
3,6-diazaoctanethylenediamin
- **Hazard statements**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition
 sources. No smoking.
 P261 Avoid breathing mist/vapours/spray.

(Contd. on page 3)

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

Printing date 15.05.2024

Version number 6 (replaces version 5)

Revision: 15.05.2024

Trade name: 4225-B

(Contd. of page 2)

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
- **Additional information:**
 EUH208: Contains 3,6-diazaoctanethylenediamin. May produce an allergic reaction.
 - **2.3 Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
 - **Determination of endocrine-disrupting properties**
 Endocrine Disruptor substance $\geq 0.1\%$ = none

3 Composition/information on ingredients

3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

- | | | |
|-------------------|--|-------|
| CAS: 68410-23-1 | fatty acids, C18-unsatd., dimers, reactionproducts with polyethylenepolyamines | 52.0% |
| | ☞ Eye Dam. 1, H318; ☞ Aquatic Chronic 2, H411; ☞ Skin Irrit. 2, H315; Skin Sens. 1, H317 | |
| CAS: 67-63-0 | propan-2-ol | 23.0% |
| EINECS: 200-661-7 | ☞ Flam. Liq. 2, H225; ☞ Eye Irrit. 2, H319; STOT SE 3, H336 | |
| CAS: 123-86-4 | n-butyl acetate | 14.0% |
| EINECS: 204-658-1 | ☞ Flam. Liq. 3, H226; ☞ STOT SE 3, H336, EUH066 | |
| CAS: 67-64-1 | acetone | 7.0% |
| EINECS: 200-662-2 | ☞ Flam. Liq. 2, H225; ☞ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066 | |
| CAS: 112-24-3 | 3,6-diazaoctanethylenediamin | 4.0% |
| EINECS: 203-950-6 | ☞ Skin Corr. 1B, H314; ☞ Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412 | |
- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

(Contd. on page 4)

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

Printing date 15.05.2024

Version number 6 (replaces version 5)

Revision: 15.05.2024

Trade name: 4225-B

(Contd. of page 3)

- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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**
Vapors are heavier than air. Vapors may travel to sources of ignition near the ground. They can cause flash fire or ignite explosively.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
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).
Use neutralising agent.
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.

7 Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
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 in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

GB

(Contd. on page 5)

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

Printing date 15.05.2024

Version number 6 (replaces version 5)

Revision: 15.05.2024

Trade name: 4225-B

(Contd. of page 4)

8 Exposure controls/personal protection

· 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m³, 500 ppmLong-term value: 999 mg/m³, 400 ppm

123-86-4 n-butyl acetate

WEL Short-term value: 966 mg/m³, 200 ppmLong-term value: 724 mg/m³, 150 ppm

67-64-1 acetone

WEL Short-term value: 3620 mg/m³, 1500 ppmLong-term value: 1210 mg/m³, 500 ppm

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

· 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **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

· **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.

(Contd. on page 6)

GB

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

Printing date 15.05.2024

Version number 6 (replaces version 5)

Revision: 15.05.2024

Trade name: 4225-B

(Contd. of page 5)

· **Eye/face protection**

Tightly sealed goggles

9 Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state

Fluid

· Colour:

According to product specification

· Odour:

Characteristic

· Odour threshold:

Not determined.

· Melting point/freezing point:

-90 °C

· Boiling point or initial boiling point and boiling range

56 °C

· Flammability

Highly flammable.

· Lower and upper explosion limit

· Lower:

1.2 Vol % (123-86-4 n-butyl acetate)

· Upper:

12 Vol % (67-63-0 propan-2-ol)

· Flash point:

-17 °C (67-64-1 acetone)

· Auto-ignition temperature:

370 °C (123-86-4 n-butyl acetate)

· Decomposition temperature:

Not determined.

· pH

Not determined.

· Viscosity:

· Kinematic viscosity

Not determined.

· Dynamic:

Not determined.

· Solubility

· water:

Fully miscible.

· Partition coefficient n-octanol/water (log value)

Not determined.

· Vapour pressure at 20 °C:

43 hPa (67-63-0 propan-2-ol)

· Density and/or relative density

· Density at 20 °C:

0.9 g/cm³

· Relative density

Not determined.

· Bulk density:

872 kg/m³

· 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 selfigniting.

· Explosive properties:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Solvent content:

· Organic solvents:

44.0 %

· VOC (EC)

44.00 %

· Solids content:

0.0 %

· Change in condition

· Evaporation rate

Not determined.

(Contd. on page 7)

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

Printing date 15.05.2024

Version number 6 (replaces version 5)

Revision: 15.05.2024

Trade name: 4225-B

(Contd. of page 6)

· **Information with regard to physical hazard classes**

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· 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

10 Stability and reactivity

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

11 Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**

ATE (Acute Toxicity Estimates)

Dermal LD50 20,125 mg/kg (rabbit)

67-63-0 propan-2-ol

Oral LD50 5,045 mg/kg (rat)

Dermal LD50 12,800 mg/kg (rabbit)

Inhalative LC50/4 h 30 mg/l (rat)

123-86-4 n-butyl acetate

Oral LD50 13,100 mg/kg (rat)

Dermal LD50 >5,000 mg/kg (rabbit)

Inhalative LC50/4 h >21 mg/l (rat)

67-64-1 acetone

Oral LD50 5,800 mg/kg (rat)

(Contd. on page 8)

GB

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

Printing date 15.05.2024

Version number 6 (replaces version 5)

Revision: 15.05.2024

Trade name: 4225-B

(Contd. of page 7)

Dermal LD50 20,000 mg/kg (rabbit)

112-24-3 3,6-diazaoctanethylenediamin

Oral LD50 2,500 mg/kg (rat)

Dermal LD50 805 mg/kg (rabbit)

- **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** 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.

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**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
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

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**
- HP3 Flammable
- HP4 Irritant - skin irritation and eye damage
- HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
- HP13 Sensitising

(Contd. on page 9)

GB

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

Printing date 15.05.2024

Version number 6 (replaces version 5)

Revision: 15.05.2024



Trade name: 4225-B


(Contd. of page 8)

HP14 Ecotoxic

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** UN1993
- **14.2 UN proper shipping name**
- **ADR** 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), ACETONE), ENVIRONMENTALLY HAZARDOUS
- **IMDG** FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), ACETONE), MARINE POLLUTANT
- **IATA** Flammable liquid, n.o.s. (ISOPROPANOL (ISOPROPYL ALCOHOL), ACETONE)
- **14.3 Transport hazard class(es)**
- **ADR, IMDG**
- 

- **Class** 3 Flammable liquids.
- **Label** 3

- **IATA**
- 
- **Class** 3 Flammable liquids.
- **Label** 3
- **14.4 Packing group**
- **ADR, IMDG, IATA** II
- **14.5 Environmental hazards:**
- **Marine pollutant:** Symbol (fish and tree)
- **Special marking (ADR):** Symbol (fish and tree)
- **14.6 Special precautions for user** Warning: Flammable liquids.
- **Hazard identification number (Kemler code):** 33
- **EMS Number:** F-E, S-E
- **Stowage Category** B
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **Transport/Additional information:**

- **ADR**
- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml

(Contd. on page 10)

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

Printing date 15.05.2024

Version number 6 (replaces version 5)

Revision: 15.05.2024

Trade name: 4225-B

(Contd. of page 9)

<ul style="list-style-type: none"> · Transport category · Tunnel restriction code <hr style="border-top: 1px dashed black;"/> <ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) <ul style="list-style-type: none"> · UN "Model Regulation": 	<p>Maximum net quantity per outer packaging: 500 ml</p> <p>2</p> <p>D/E</p> <p>1L</p> <p>Code: E2</p> <p>Maximum net quantity per inner packaging: 30 ml</p> <p>Maximum net quantity per outer packaging: 500 ml</p> <p>UN 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), ACETONE), 3, II, ENVIRONMENTALLY HAZARDOUS</p>
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15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**
- **Regulated explosives precursors**
None of the ingredients is listed.
- **Regulated poisons**
None of the ingredients is listed.
- **Reportable explosives precursors**
67-64-1 acetone: Listed
- **Reportable poisons**
None of the ingredients is listed.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category**
E2 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 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**
67-64-1 acetone
- **Regulation (EC) No 273/2004 on drug precursors**
67-64-1 acetone: 3
- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
67-64-1 acetone: 3

(Contd. on page 11)

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

Printing date 15.05.2024

Version number 6 (replaces version 5)

Revision: 15.05.2024

Trade name: 4225-B

(Contd. of page 10)

· 15.2 Chemical safety assessment:*A Chemical Safety Assessment has not been carried out.***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.*
- H226 *Flammable liquid and vapour.*
- H312 *Harmful 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.*
- H336 *May cause drowsiness or dizziness.*
- H411 *Toxic to aquatic life with long lasting effects.*
- H412 *Harmful to aquatic life with long lasting effects.*
- EUH066 *Repeated exposure may cause skin dryness or cracking.*

· **Department issuing SDS:** *Product safety department.*

· **Contact:** *sds@mgchemicals.com*

· **Date of previous version:** *28.11.2023*

· **Version number of previous version:** *5*

· 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)*

VOC: *Volatile Organic Compounds (USA, EU)*

LC50: *Lethal concentration, 50 percent*

LD50: *Lethal dose, 50 percent*

PBT: *Persistent, Bioaccumulative and Toxic*

vPvB: *very Persistent and very Bioaccumulative*

ATE: *Acute toxicity estimate values*

Flam. Liq. 2: *Flammable liquids – Category 2*

Flam. Liq. 3: *Flammable liquids – Category 3*

Acute Tox. 4: *Acute toxicity – Category 4*

Skin Corr. 1B: *Skin corrosion/irritation – Category 1B*

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*

STOT SE 3: *Specific target organ toxicity (single exposure) – Category 3*

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.**