

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

· 1.1 Product identifier

· Trade name: 834HTC-B

- **Other Means of Identification:** High Thermal Conductivity Epoxy (Part B)
- **Related Part Number:**
834HTC-Part B, 834HTC-900ML (B), 834HTC-4.25L (B), 834HTC-45L (B), 834HTC-108L (B)
- **UFI:** 28J0-M0CX-T00J-CRKD

· 1.2 Relevant identified uses of the substance or mixture and uses advised against

- **Application of the substance / the mixture** Epoxy Hardener
- **Uses advised against** Not for use as a spray coating

· 1.3 Details of the supplier of the safety data sheet

· **Manufacturer/Supplier:**

MG Chemicals Ltd. (Head Office)
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA
+(1) 905-331-1396
info@mgchemicals.com

MG Chemicals
Heame House, 23 Bliston Street
Sedgely Dudley DY3 1JA.
United Kingdom
+(44) 1663 362888

MG Chemicalst Ltd.
18-20, Msida Road,
Gzira, GZR 1401
MALTA

- **Further information obtainable from:** sds@mgchemicals.com

· 1.4 Emergency telephone number:

3E (Access code: 335388)
+(44) 20 3514787
+(1) 760 476 3961
UK Toll free: +(0) 800 680 0425

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

* SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008**

| | |
|---------------|---|
| Acute Tox. 4 | H302 Harmful if swallowed. |
| Acute Tox. 3 | H311 Toxic in contact with skin. |
| Acute Tox. 4 | H332 Harmful if inhaled. |
| Skin Corr. 1A | H314 Causes severe skin burns and eye damage. |
| Eye Dam. 1 | H318 Causes serious eye damage. |

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| | |
|-------------------|---|
| Skin Sens. 1 | H317 May cause an allergic skin reaction. |
| STOT RE 2 | H373 May cause damage to organs through prolonged or repeated exposure. |
| Aquatic Chronic 3 | H412 Harmful 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 GB CLP regulation.

Hazard pictograms



GHS05 GHS06 GHS08

Signal word Danger

Hazard-determining components of labelling:

3-aminomethyl-3,5,5-trimethylcyclohexylamine
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)

Hazard statements

H302+H332 Harmful if swallowed or if inhaled.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P260 Do not breathe vapors or fumes.
P264 Wash thoroughly after handling.
P280 Wear protective gloves, protective clothing, and eye protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents and container in accordance with local, regional, and national regulations.

2.3 Other hazards

Long term or repeated exposure may lead to an autoimmune disease that results in hardening of the skin and can affect the internal organs.

Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

Determination of endocrine-disrupting properties Endocrine Disruptor substance $\geq 0.1\%$ = none

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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

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Version number 3.02 (replaces version 3.01)

Revision: 19.03.2025

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| · Dangerous components: | | |
|---|--|-------|
| CAS: 2855-13-2 EINECS: 220-666-8 Index number: 612-067-00-9 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Sens. 1A, H317 ATE: LD50 oral: 1,030 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 % | 64.0% |
| CAS: 6864-37-5 EINECS: 229-962-1 Index number: 612-110-00-1 | 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) ⚠ Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Skin Corr. 1A, H314; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302 | 24.0% |

· **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

· **After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.
Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER or doctor.

· **After skin contact:**

Take off immediately all contaminated clothing. Wash with plenty of water or shower.
Immediately call a POISON CENTRE or doctor.
Wash contaminated clothing before reuse.
If skin irritation or rash occurs: Get medical advice or attention.

· **After eye contact:**

Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Immediately call a POISON CENTER or doctor.

· **After swallowing:**

Rinse mouth. Do not induce vomiting.
Immediately call a POISON CENTER or doctor.

· **Information for doctor:** Treat symptomatically

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

See section 11 for additional information.

· 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

During heating or in case of fire poisonous gases are produced.
Not flammable or combustible, but burns if involved in a fire. Produces irritating smoke of unknown toxicity in fires.
Prevent fire-fighting wash from entering waterway or sewer system.
Inhalation of toxic smoke during fire may have delayed effects. Exposed person may need to be put under surveillance for 48 h.

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· **Hazardous combustion products:**

Carbon Oxides (COx)
Nitrogen Oxides (NOx)
nitric acid
ammonia
other toxic fumes

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Remove or keep away all sources of extreme heat or open flames.
Do not breathe fumes, mist or vapors.

· **6.2 Environmental precautions:**

Avoid release to the environment.
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).
Collect liquid in a sealable, chemical-resistant container.
Wash residue with a paper towel and place dirty towels in container.
Use soap and water to remove the last traces of residue.

· **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**

Prevent formation of aerosols.
Wear protective gloves and eye protection.
Wash hands and exposed skin thoroughly after handling.
Take off contaminated clothing and wash it before reuse.
Contaminated work clothing should not be allowed out of the workplace.
Use only outdoors or in a well-ventilated area.
Do not eat, drink, or smoke when using this product.
Do not breathe fumes or vapours.

· **Information about fire - and explosion protection:** Keep respiratory protective device available.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

- **Requirements to be met by storerooms and receptacles:**
Keep in a dry and clean area, away from incompatible substances
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store locked up.

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- **Storage class:** 6.1 A
- **7.3 Specific end use(s)** See section 1.2

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
 - **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
 - **Additional information:**

The lists valid during the making were used as basis.
Refer to the national or regional occupational exposure limit regulation for abbreviations and acronyms.
- **8.2 Exposure controls**
 - **Appropriate engineering controls**

Due to low vapor pressure of the product, general ventilation should be adequate for normal use. If the product is heated at high temperatures or worker is allergic, use local ventilation and consider using a full mask with organic vapor cartridges.
 - **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.
Store protective clothing separately.
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.
Advice should be sought from respiratory protection specialists.
If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.
 - **Hand protection**



Protective gloves: EN374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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.

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· Eye/face protection



Safety glasses or tightly sealed goggles: EN 166

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

| | |
|--|--|
| · Physical state | Liquid |
| · Form: | Low viscosity |
| · Colour: | Clear |
| · Odour: | Not available |
| · Odour threshold: | Not determined. |
| · Melting point/freezing point: | Undetermined. |
| · Boiling point or initial boiling point and boiling range | ≥100 °C |
| · Flammability | Non flammable |
| · Lower and upper explosion limit | |
| · Lower: | 0.5 Vol % (6864-37-5 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)) Not applicable |
| · Upper: | 2.8 Vol % (6864-37-5 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)) Not applicable |
| · Flash point: | ≥116 °C |
| · Auto-ignition temperature: | 275 °C (6864-37-5 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)) |
| · Decomposition temperature: | Not determined. |
| · pH | Not determined. |
| · Viscosity: | |
| · Kinematic viscosity at 20 °C | 24 cP |
| · Dynamic: | Not determined. |
| · Solubility | |
| · water: | Not miscible or difficult to mix. |
| · Partition coefficient n-octanol/water (log value) | Not determined. |
| · Vapour pressure at 30 °C: | 0 hPa (6864-37-5 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)) |
| · Relative density at 25 °C: | 0.94 |
| · Vapour density (air=1): | Not determined. |
| · Particle characteristics | Not applicable. |

· 9.2 Other information

| | |
|--|---|
| · 9.2.1 Information with regard to physical hazard classes | Not applicable |
| · 9.2.2 Other safety characteristics | |
| · Evaporation rate | Not determined. |
| · Ignition temperature: | Product is not selfigniting. |
| · Explosive properties: | Product does not present an explosion hazard. |

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| | |
|---------------------|---------------|
| · Solvent content: | |
| · Organic solvents: | Not available |
| · Solids content: | 12.0 % |

SECTION 10: Stability and reactivity

· 10.1 Reactivity

Reacts exothermically with ketones, halogenated hydrocarbons, cyanides, nitriles, and epoxides.
May attack metals such as aluminum, zinc, copper, and their alloys.

· 10.2 Chemical stability

Chemically stable at normal temperatures and pressures.

· 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

Avoid open flames, excessive heat, sparks, ignition sources, and incompatible substances.
Do not use in away that forms mist or aerosolizes the product.

· 10.5 Incompatible materials:

Sodium hypochlorite
organic acids
mineral acids
Peroxides
metals (copper, aluminum, zinc, tin alloys, etc.)
Strong oxidizing agents

· 10.6 Hazardous decomposition products:

No dangerous decomposition products known.
Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity

Harmful if swallowed or if inhaled.
Toxic in contact with skin.

· LD/LC50 values relevant for classification:

| ATE (Acute Toxicity Estimates) | | |
|--|----------|--------------------------|
| Oral | LD50 | 729–875 mg/kg |
| Dermal | LD50 | 833–1,667 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 1.8 mg/L (rat) |
| 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine | | |
| Oral | LD50 | 1,030 mg/kg (ATE) |
| 6864-37-5 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) | | |
| Oral | LD50 | 320–460 mg/kg (rat) |
| Dermal | LD50 | 200–400 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 0.42 mg/L (rat) |

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- **Primary irritant effect:**
 - **Skin corrosion/irritation** Causes severe skin burns and eye damage.
 - **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** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

· **Summary of Effects and Symptoms by Routes of Exposure**

· **Eyes:**

eye damage, pain
redness, serious irritation
burns

· **Skin:**

rash, allergic contact dermatitis
chemical burns
redness, irritation
blistering

· **Inhalation:**

irritation of the respiratory tract
sore throat
cough
burning sensation
difficulty breathing

· **Swallowed:**

irritation
burning sensation
abdominal pain
shock or collapse
allergic reactions

· **Subacute to chronic toxicity:**

- **Delayed and immediate effects as well as chronic effects from short and long-term exposure**
Prolonged and repeated exposure to uncured epoxy hardener may lead to skin sensitization.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

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.

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· **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:** Harmful to fish
- **Additional ecological information:**
 - **General notes:**
 - Must not reach sewage water or drainage ditch undiluted or unneutralised.
 - Harmful to aquatic organisms
 - Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
 - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 - Danger to drinking water if even extremely small quantities leak into the ground.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

- **Recommendation** This material and its container must be disposed of as hazardous waste.

· **European waste catalogue**

| | |
|------|----------------|
| HP6 | Acute Toxicity |
| HP8 | Corrosive |
| HP13 | Sensitising |
| HP14 | Ecotoxic |

· **Uncleaned packaging:**

- **Recommendation:**
 - Containers may still present a chemical hazard/ danger when empty.
 - Dispose of contents in accordance with all local, regional, national, and international regulations.
 - Where possible retain label warnings and SDS and observe all notices pertaining to the product.

* SECTION 14: Transport information

· **14.1 UN number or ID number**

- **ADR, IMDG, IATA** UN2922

· **14.2 UN proper shipping name**

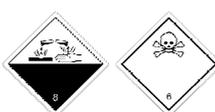
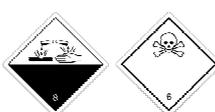
- **ADR, IMDG** CORROSIVE LIQUID, TOXIC, N.O.S. (2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine), 3-aminomethyl-3,5,5-trimethylcyclohexylamine)
- **IATA** Corrosive liquid, toxic, n.o.s. (2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine), 3-aminomethyl-3,5,5-trimethylcyclohexylamine)

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| | |
|---|--|
| <p>· 14.3 Transport hazard class(es)</p> | |
| <p>· ADR</p>  <p>· Class · Label</p> | <p>8 Corrosive substances. 8+6.1</p> |
| <p>· IMDG</p>  <p>· Class · Label</p> | <p>8 Corrosive substances. 8/6.1</p> |
| <p>· IATA</p>  <p>· Class · Label</p> | <p>8 Corrosive substances. 8 (6.1)</p> |
| <p>· 14.4 Packing group · ADR, IMDG, IATA</p> | <p>II</p> |
| <p>· 14.5 Environmental hazards:</p> | <p>Not applicable.</p> |
| <p>· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category · Stowage Code</p> | <p>Not applicable. 86 F-A,S-B B SW2 Clear of living quarters.</p> |
| <p>· 14.7 Maritime transport in bulk according to IMO instruments</p> | <p>Not applicable.</p> |
| <p>· Transport/Additional information:</p>  <p>Limited Quantity</p> <p>834HTC-900ML, 834HTC-4.25L</p> | |
| <p>· ADR · Limited quantities (LQ) · Excepted quantities (EQ)</p> | <p>1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging:</p> |

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| | |
|----------------------------|---|
| · | 500 ml |
| · Transport category | 2 |
| · Tunnel restriction code | E |
| ----- | |
| · IMDG | |
| · Limited quantities (LQ) | 1L |
| · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation": | UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (2,2'-DIMETHYL-4,4'-METHYLENEBIS(CYCLOHEXYLAMINE), 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE), 8 (6.1), II |

SECTION 15: Regulatory information

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

· Poisons Act

| | |
|---|------------------------------------|
| · Regulated explosives precursors (Part 1) | None of the ingredients is listed. |
| · Regulated poisons (Part 2) | None of the ingredients is listed. |
| · Reportable explosives precursors (Part 3) | None of the ingredients is listed. |
| · Reportable poisons (Part 4) | None of the ingredients is listed. |

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· 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. |
| · Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) | None of the ingredients is listed. |
| · Annex II - REPORTABLE EXPLOSIVES PRECURSORS | None of the ingredients is listed. |
| · Regulation (EC) No 273/2004 on drug precursors | None of the ingredients is listed. |

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· **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.

· **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**

- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- H411 Toxic to aquatic life with long lasting effects.

· **Classification according to Regulation (EC) No 1272/2008**

Acute toxicity - oral
 Acute toxicity - dermal
 Acute toxicity - inhalation
 Skin corrosion/irritation
 Serious eye damage/irritation
 Skin sensitisation
 Specific target organ toxicity (repeated exposure)
 Hazardous to the aquatic environment - long-term (chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

· **Department issuing SDS:** Regulatory department

· **Contact:** sds@mgchemicals.com

· **Date of previous version:** 04.06.2024

· **Version number of previous version:** 3.01

· **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)
- 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
- Acute Tox. 4: Acute toxicity – Category 4
- Acute Tox. 3: Acute toxicity – Category 3
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Skin Sens. 1: Skin sensitisation – Category 1
- Skin Sens. 1A: Skin sensitisation – Category 1A
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
- 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.**