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Safety Data Sheet acc. to OSHA HCS

Printing date 05/09/2020

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Reviewed on 05/09/2020

| Product iden | tifier |
|---|---|
| Trade name. | <u>SikaBiresin CH94-1 (L141 FAST HARD)</u> |
| | er: 1025956-4 If the substance / the mixture Epoxy curing agent |
| Sika Advance EHS Departs Manufactur Supplier's No Headquarter 30800 Steph | r/Supplier: me: Sika Advanced Resins, US s: |
| advancedres | ns.ehs@us.sika.com |
| | department: Product safety department elephone number: |
| During norm CHEMTREC | al opening times: +1 (248) 588-2270 24-hour Emergency: +1 (800) 424-9300 |
| During norm CHEMTREC Hazard(s) Classificatio | al opening times: +1 (248) 588-2270 24-hour Emergency: +1 (800) 424-9300 identification n of the substance or mixture |
| During norm CHEMTREC Hazard(s) Classificatio | al opening times: +1 (248) 588-2270 24-hour Emergency: +1 (800) 424-9300 identification |
| During norm CHEMTREC Hazard(s) Classificatio | al opening times: +1 (248) 588-2270 24-hour Emergency: +1 (800) 424-9300 identification n of the substance or mixture |
| During norm CHEMTREC Hazard(s) Classificatio Classificatio Glassificatio Repr. 2 | al opening times: +1 (248) 588-2270 24-hour Emergency: +1 (800) 424-9300 identification a of the substance or mixture IS08 Health hazard |
| During norm CHEMTREC Classificatio Classificatio Glassificatio Repr. 2 Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Classificatio Glassificatio Classificatio Glassificatio C | al opening times: +1 (248) 588-2270 24-hour Emergency: +1 (800) 424-9300 identification a of the substance or mixture IS08 Health hazard H361 Suspected of damaging fertility or the unborn child. |
| During norm CHEMTREC Classificatio Classificatio Glassificatio Repr. 2 Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Glassificatio Classificatio Glassificatio Classificatio Glassificatio C | al opening times: +1 (248) 588-2270 24-hour Emergency: +1 (800) 424-9300 identification a of the substance or mixture HS08 Health hazard H361 Suspected of damaging fertility or the unborn child. HS05 Corrosion |
| During norm CHEMTREC Hazard(s) Classificatio Classificatio Gl Repr. 2 Skin Corr. 11 Eye Dam. 1 | al opening times: +1 (248) 588-2270 24-hour Emergency: +1 (800) 424-9300 identification a of the substance or mixture ISO8 Health hazard H361 Suspected of damaging fertility or the unborn child. ISO5 Corrosion 3 H314 Causes severe skin burns and eye damage. |
| During norm CHEMTREC Hazard(s) Classificatio Classificatio Gl Repr. 2 Skin Corr. 11 Eye Dam. 1 | al opening times: +1 (248) 588-2270 24-hour Emergency: +1 (800) 424-9300 identification a of the substance or mixture HS08 Health hazard H361 Suspected of damaging fertility or the unborn child. HS05 Corrosion # H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. |
| During norm CHEMTREC Classificatio Classificatio Gl Repr. 2 Classificatio Gl Skin Corr. 11 Eye Dam. 1 | al opening times: +1 (248) 588-2270 24-hour Emergency: +1 (800) 424-9300 identification a of the substance or mixture IS08 Health hazard H361 Suspected of damaging fertility or the unborn child. IS05 Corrosion B H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. |



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Trade name: SikaBiresin CH94-1 (L141 FAST HARD)

(Contd. of page 1) · Hazard pictograms GHS05 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: 1,6-Hexanediamine, 2,2,4 (or 2,4,4)-trimethyl*m*-*phenylenebis*(*methylamine*) 4-tert-butylphenol 3-aminomethyl-3,5,5-trimethylcyclohexylamine · Hazard statements Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. · Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray Do not breathe dusts or mists. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 3Fire = 1Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH *3 Health = *3FIRE 1 Fire = 1**REACTIVITY** O Reactivity = 0 · Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. (Contd. on page 3)



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· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

 $\cdot \textit{Description: Mixture of the substances listed below with nonhazardous additions.}$

| · Dangerous compone | ents: | |
|--------------------------------------|--|---------------------------|
| CAS: 25513-64-8 EINECS: 247-134-8 | 1,6-Hexanediamine, 2,2,4 (or 2,4,4)-trimethyl- | <i>≥</i> 25- <i>≤</i> 50% |
| CAS: 98-54-4 EINECS: 202-679-0 | 4-tert-butylphenol | 10-20% |
| CAS: 1477-55-0 EINECS: 216-032-5 | m-phenylenebis(methylamine) | 10-20% |
| CAS: 2579-20-6 EINECS: 219-941-5 | 1,3-Cyclohexanedimethanamine | 10-20% |
| CAS: 2855-13-2 EINECS: 220-666-8 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 10-20% |
| CAS: 90-72-2 EINECS: 202-013-9 | 2,4,6-tris(dimethylaminomethyl)phenol | 1-5% |

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• 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:
- Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available. • Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

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5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- \cdot Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- Protective equipment:
- Mouth respiratory protective device.
- Wear self-contained respiratory protective device.
- · Additional information

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

6 Accidental release measures

| Personal precautions, protective equipment and emergency procedures | |
|---|-----------------------|
| Mount respiratory protective device. | |
| Wear protective equipment. Keep unprotected persons away. | |
| Environmental precautions: | |
| Dilute with plenty of water. | |
| Do not allow to enter sewers/ surface or ground water. | |
| Methods and material for containment and cleaning up: | |
| Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdus | t). |
| Use neutralizing agent. | |
| Dispose contaminated material as waste according to item 13. | |
| Ensure adequate ventilation. | |
| 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. | |
| Protective Action Criteria for Chemicals | |
| PAC-1: | |
| 98-54-4 4-tert-butylphenol | 1.5 mg/m ³ |
| 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol | 6.5 mg/m ³ |
| PAC-2: | |
| 98-54-4 4-tert-butylphenol | 40 mg/m ³ |
| 20-72-2 2,4,6-tris(dimethylaminomethyl)phenol | 72 mg/m ³ |
| PAC-3: | |
| 98-54-4 4-tert-butylphenol | 240 mg/m ³ |
| 90-72-2 2,4,6-tris(dimethylaminomethyl)phenol | 430 mg/m ³ |

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7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.
- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities

· Storage:

- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components 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 that were valid during the creation were used as basis.
- · 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.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• 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.

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Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

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

· Eye protection:



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Tightly sealed goggles

| Information on basic physical and General Information | chemical properties | |
|--|---|--|
| Appearance: | | |
| Form: | Liquid | |
| Color: | Light amber | |
| Odor: | Amine-like | |
| Odor threshold: | Not determined. | |
| pH-value: | Not determined. | |
| Change in condition | | |
| Melting point/Melting range: | Undetermined. | |
| Boiling point/Boiling range: | >200 °C (>392 °F) | |
| Flash point: | 110 °C (230 °F) | |
| Flammability (solid, gaseous): | Not applicable. | |
| Ignition temperature: | 510 °C (950 °F) | |
| Decomposition temperature: | Not determined. | |
| Auto igniting: | Product is not selfigniting. | |
| Danger of explosion: | Product does not present an explosion hazard. | |
| Explosion limits: | | |
| Lower: | Not determined. | |
| Upper: | Not determined. | |
| Vapor pressure: | Not determined. | |
| Density at 20 °C (68 °F): | 0.92 g/cm ³ (7.68 lbs/gal) | |



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| | | (Contd. of page |
|------------------------------------|--|-----------------|
| · Relative density | Not determined. | |
| · Vapor density | Not determined. | |
| · Evaporation rate | Not determined. | |
| · Solubility in / Miscibility with | i and the second s | |
| Water: | Fully miscible. | |
| · Partition coefficient (n-octan | ol/water): Not determined. | |
| · Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| · Solvent content: | | |
| VOC content: | 0.00 % | |
| | 0.0 g/l / 0.00 lb/gal | |
| Solids content: | 35.0 % | |
| • Other information | No further relevant information available. | |

10 Stability and reactivity

- *Reactivity* No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

| · LD/LC50 values that are relevant for classification: | | |
|--|------------|--|
| 25513-64 | -8 1,6-He | xanediamine, 2,2,4 (or 2,4,4)-trimethyl- |
| Oral | LD50 | 900 mg/kg (rat) |
| 98-54-4 4 | -tert-buty | lphenol |
| Oral | LD50 | 2,951 mg/kg (rat) |
| Dermal | LD50 | 2,288 mg/kg (rabbit) |
| 1477-55-0 | 0 m-phen | ylenebis(methylamine) |
| Oral | LD50 | 1,040 mg/kg (rat) |
| Dermal | LD50 | 2,000 mg/kg (rabbit) |
| | | (Contd. on page 8) |



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| 1 | e LC50/4 | (Contd. of page 2.4 mg/l (rat) |
|---|---|---|
| 2855-13-2 | 2 3-amino | methyl-3,5,5-trimethylcyclohexylamine |
| Oral | LD50 | 1,030 mg/kg (rat) |
| Dermal | LD50 | 2,000 mg/kg (rat) |
| on the eye Strong ca Strong irr Sensitizat Additiona The produ Harmful Corrosive Irritant | e: ustic effec itant with ion: Sens il toxicolo uct shows ng will lea | c effect on skin and mucous membranes. t. the danger of severe eye injury. itization possible through skin contact. gical information: the following dangers according to internally approved calculation methods for preparations d to a strong caustic effect on mouth and throat and to the danger of perforation of esophage |
| | enic categ | ories |
| | | |
| Carcinog IARC (In | ternation | al Agency for Research on Cancer) |
| Carcinog IARC (In | ternation | |
| Carcinog IARC (In None of th | ternation ne ingredi | al Agency for Research on Cancer) |
| Carcinog IARC (In None of th NTP (Nat | ternation ne ingredi tional Tox | al Agency for Research on Cancer) ents is listed. |
| Carcinog IARC (In None of th NTP (Nat None of th | ternation ne ingredi t ional Tox ne ingredi | al Agency for Research on Cancer) ents is listed. ricology Program) |

12 Ecological information

· Toxicity

| • Aquatic toxicity: | | | |
|---|----------------------------------|--|--|
| 25513-64-8 1,6-Hexanediamine, 2,2,4 (or 2,4,4)-trimethyl- | | | |
| 72 or 96 hr ErC50 | 43.5 mg/l (Algea) | | |
| NOEC | 16 mg/l (Algea) | | |
| 98-54-4 4-tert-buty | 98-54-4 4-tert-butylphenol | | |
| 48 hr EC50 | 3.4 mg/l (daphnia) | | |
| 96 hr LC50 | 4.71 mg/l (Fathead minnow) | | |
| 1477-55-0 m-phen | ylenebis(methylamine) | | |
| 72 or 96 hr ErC50 | 12 mg/l (Chaetogammarus marinus) | | |
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| | - US - | | |



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| 1055 12 2 2 | | (Contd. of page 8 |
|---|--|--|
| | inomethyl-3,5,5-trimet | hylcyclohexylamine |
| 96 hr LC50 | 110 mg/l (Fish) | |
| NOEC | 3 mg/l (daphnia) | |
| Persistence and | degradability No furth | er relevant information available. |
| | ironmental systems: | |
| | | elevant information available. |
| | No further relevant info | ormation available. |
| | gical information: | |
| General notes: | | |
| | iss 2 (Self-assessment): | |
| | | water, water course or sewage system. |
| | | nage ditch undiluted or unneutralized. |
| | ng water if even small i ind vPvB assessment | quantities leak into the ground. |
| PBT: Not applie | | |
| vPvB: Not appli | | |
| | | nt information available. |
| Disposal cons Waste treatment | methods | |
| Recommendatio Must not be disp | | ousehold garbage. Do not allow product to reach sewage system. |
| Uncleaned pack | agings: | |
| | | ade according to official regulations. |
| Recommended of | leansing agent: Water | ; if necessary with cleansing agents. |
| | | |
| | | |
| Transport inf | ormation | |
| × v | ormation | |
| UN-Number | | UN1760 |
| UN-Number DOT, IMDG, IA | TA | UN1760 |
| UN-Number DOT, IMDG, IA UN proper shipp | TA | |
| Transport inf UN-Number DOT, IMDG, IA UN proper shipp DOT | TA | UN1760 Corrosive liquids, n.o.s. (m-phenylenebis(methylamine), Trimethylhexamethylenediamines) |

TRIMETHYLHEXAMETHYLENEDIAMINES)



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| | (Contd. of pa | age |
|---|---|-----|
| Transport hazard class(es) | | |
| DOT | | |
| CORROSIVE 8 | | |
| - Class | 8 Corrosive substances | |
| Label | 8 | |
| IMDG, IATA | | |
| | | |
| Class | 8 Corrosive substances | |
| Label | 8 | |
| Packing group | | |
| DOT, IMDG, IATA | 111 | |
| Environmental hazards: | Not applicable. | |
| Special precautions for user | Warning: Corrosive substances | |
| Hazard identification number (Kemler code): | | |
| EMS Number: | F-A,S-B | |
| Segregation groups | Alkalis | |
| Stowage Category | A | |
| Stowage Code | SW2 Clear of living quarters. | |
| Transport in bulk according to Annex II of | | |
| MARPOL73/78 and the IBC Code | Not applicable. | |
| Transport/Additional information: | | |
| DOT | | |
| Quantity limitations | On passenger aircraft/rail: 5 L | |
| | On cargo aircraft only: 60 L | |
| ·IMDG | | |
| Limited quantities (LQ) | 5L | |
| Excepted quantities $(\widetilde{E}Q)$ | Code: E1 | |
| · ~ · | Maximum net quantity per inner packaging: 30 ml | |
| | Maximum net quantity per outer packaging: 1000 ml | |
| | | |



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| · UN ''Model Regulation'': | UN 1760 CORROSIVE LIQUID, N.O.S. (M- |
|----------------------------|--|
| - | PHENYLENEBIS (METHYLAMINE), |
| | TRIMETHYLHEXAMETHYLENEDIAMINES), 8, 111, |
| | ENVIRONMENTALLY HAZARDOUS |

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara
- · Section 355 (extremely hazardous substances):
- None of the ingredients is listed.
- · Section 313 (Specific toxic chemical listings):
- None of the ingredients is listed.
- TSCA (Toxic Substances Control Act):
- All components have the value ACTIVE.
- · Chemicals regulated by TSCA Section 12(b)
- None of the ingredients is listed.
- · Chemical regulated by TSCA 5(a)(2)rule:
- None of the ingredients is listed.
- · Hazardous Air Pollutants
- None of the ingredients is listed.
- · Proposition 65
- · Chemicals known to cause cancer:
- None of the ingredients is listed.
- · Chemicals known to cause reproductive toxicity for females:
- None of the ingredients is listed.
- · Chemicals known to cause reproductive toxicity for males:
- None of the ingredients is listed.
- · Chemicals known to cause developmental toxicity:
- None of the ingredients is listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency)
- None of the ingredients is listed.
- · TLV (Threshold Limit Value established by ACGIH)
- None of the ingredients is listed.

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(Contd. of page 11) · NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. · Listed in CWC Regulations None of the ingredients is listed. • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS05 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: 1,6-Hexanediamine, 2,2,4 (or 2,4,4)-trimethyl*m*-*phenylenebis*(*methylamine*) 4-tert-butylphenol 3-aminomethyl-3,5,5-trimethylcyclohexylamine · Hazard statements Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. · Precautionary statements Do not breathe dusts or mists. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · 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.

- Date of preparation / last revision 05/09/2020 / 1
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods

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| DOT: US Department of Transportation |
|---|
| IATA: International Air Transport Association |
| ACGIH: American Conference of Governmental Industrial Hygienists |
| 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) |
| NFPA: National Fire Protection Association (USA) |
| HMIS: Hazardous Materials Identification System (USA) |
| 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 |
| NIOSH: National Institute for Occupational Safety |
| OSHA: Occupational Safety & Health |
| TLV: Threshold Limit Value |
| PEL: Permissible Exposure Limit |
| REL: Recommended Exposure Limit |
| Acute Tox. 4: Acute toxicity – Category 4 |
| 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 |
| Repr. 2: Reproductive toxicity – Category 2 |
| • * Data compared to the previous version altered. |
| |