Printing date 03/14/2018



Reviewed on 06/21/2017

1 Identification

- · Product identifier
- · Trade name: 50454 & 50456 World Class 4.2 VOC 4:1 Activator Fast
- Article number: 50454, 50456
- Application of the substance / the mixture Coating Isocyanate Hardener
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: SEM Products Inc. 1685 Overview Drive Rock Hill, SC 29730 803 207 8225
- · Information department:
- cust_care@semproducts.com : SEM Products,Inc. 1685 Overview Dr. Rock Hill, SC 29730 : phone 1-800-831-1122, M - TH 7am - 4pm EDT
- Emergency telephone number: CHEMTREC 1-800-424-9300

2 Hazard(s) identification

· Classification of the substance or mixture



Flam. Liq. 3 H226 Flammable liquid and vapor.

GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

STOT SE 2 H371 May cause damage to organs.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H336 May cause drowsiness or dizziness.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



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Safety Data Sheet acc. to OSHA HCS SEM

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| Signal word Da | (Contd. of pager |
|------------------------|--|
| | ining components of labeling: |
| HDI Prepolyme | |
| heptan-2-one | 1 |
| <i>n-butyl acetate</i> | |
| | alpha,alpha-trifluorotoluene |
| Hazard stateme | |
| | le liquid and vapor. |
| H302 Harmful i | |
| H315 Causes sk | |
| | erious eye irritation. |
| | |
| | e allergy or asthma symptoms or breathing difficulties if inhaled. |
| | e an allergic skin reaction. |
| | e damage to organs. |
| | e drowsiness or dizziness. |
| Precautionary s | |
| P210 | Keep away from heat/sparks/open flames/hot surfaces No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting/equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray. |
| P264 | Wash thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P272 | Contaminated work clothing must not be allowed out of the workplace. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P284 | [In case of inadequate ventilation] wear respiratory protection. |
| P301+P312 | If swallowed: Call a poison center/doctor if you feel unwell. |
| P330 | Rinse mouth. |
| | 353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with we shower. |
| P304+P341 | If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable breathing. |
| P305+P351+P. | 338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pre- |
| | and easy to do. Continue rinsing. |
| P308+P311 | IF exposed or concerned: Call a poison center/doctor. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P321 | Specific treatment (see on this label). |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P342+P311 | If experiencing respiratory symptoms: Call a poison center/doctor. |
| P363 | Wash contaminated clothing before reuse. |
| P370+P378 | In case of fire: Use for extinction: CO2, powder or water spray. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/internation regulations. |
| | (Contd. on page |

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· Classification system: · NFPA ratings (scale 0 - 4)

$$\begin{array}{c} \textbf{Health} = 2\\ \textbf{Fire} = 3\\ \textbf{Reactivity} = 0 \end{array}$$

· HMIS-ratings (scale 0 - 4)

HEALTH *2 Health = *23 FIRE Fire = 3**REACTIVITY O** *Reactivity* = 0

- · Other hazards
- · Results of PBT and vPvB assessment

3

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:
- Mixture: consisting of the following components. Weight percentages

| · Dangerous components: | | |
|-------------------------|---|--------|
| 28182-81-2 | HDI Prepolymer | 40-60% |
| 123-86-4 | n-butyl acetate | 13-30% |
| 110-43-0 | heptan-2-one | 13-30% |
| 98-56-6 | 4-chloro-alpha,alpha,alpha-trifluorotoluene | 10-13% |
| 112-07-2 | 2-butoxyethyl acetate | 5-7% |

4 First-aid measures

· Description of first aid measures

· General information:

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. If symptoms persist, consult a doctor.
- · After swallowing: Immediately call a doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.

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

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: 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, sawdust). 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: | |
|--------------------------------|-----------------------|
| 28182-81-2 HDI Prepolymer | 7.8 mg/m ³ |
| 123-86-4 n-butyl acetate | 5 ppm |
| 110-43-0 heptan-2-one | 150 ppm |
| 112-07-2 2-butoxyethyl acetate | 15 ppm |
| · PAC-2: | |
| 28182-81-2 HDI Prepolymer | 86 mg/m ³ |
| 123-86-4 n-butyl acetate | 200 ppm |
| 110-43-0 heptan-2-one | 670 ppm |
| 112-07-2 2-butoxyethyl acetate | 35 ppm |
| · PAC-3: | |
| 28182-81-2 HDI Prepolymer | 510 mg/m ³ |

123-86-4 *n-butyl acetate* 3000* ppm 110-43-0 heptan-2-one 4000* ppm 112-07-2 2-butoxyethyl acetate 210 ppm

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(Contd. of page 4)

7 Handling and storage

- · Handling:
- **Precautions for safe handling** No special measures required. Ensure good ventilation/exhaustion at the workplace.
- *Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.*
- · 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 following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

123-86-4 n-butyl acetate

- PEL Long-term value: 710 mg/m³, 150 ppm
- REL Long-term value: 950 mg/m³, 200 ppm
- TLV Short-term value: 712 mg/m³, 150 ppm
 - Long-term value: 238 mg/m³, 50 ppm

110-43-0 heptan-2-one

- PEL Long-term value: 465 mg/m³, 100 ppm
- *REL Long-term value:* 465 mg/m³, 100 ppm
- TLV Long-term value: 233 mg/m³, 50 ppm

112-07-2 2-butoxyethyl acetate

- REL Long-term value: 33 mg/m³, 5 ppm
- TLV Long-term value: 130 mg/m³, 20 ppm
- Additional information: The lists that were valid during the creation were used as basis.

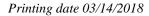
· Exposure controls

- · 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.
- 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.

(Contd. on page 6)





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• Protection of hands:

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



Protective gloves

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

· 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

9 Physical and chemical properties · Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Color: According to product specification · Odor: *Characteristic* · Odor threshold: Not determined. · pH-value: Not determined. · Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: 124-128 °C · Flash point: 27 °C Not applicable. · Flammability (solid, gaseous): 280 °C · Ignition temperature: · Decomposition temperature: Not determined. · Auto igniting: Product is not selfigniting. · Danger of explosion: In use, may form flammable/explosive vapour-air mixture. · Explosion limits: 1 Vol % Lower: Upper: 7.5 Vol % (Contd. on page 7)



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| | (Contd. o | f page |
|-------------------------------------|--|--------|
| • Vapor pressure at 20 •C: | 10.7 hPa | |
| · Density at 20 •C: | 1.01646 g/cm ³ | |
| · Relative density | Not determined. | |
| · Vapor density | Not determined. | |
| • Evaporation rate | Not determined. | |
| · Solubility in / Miscibility with | | |
| Water: | Not miscible or difficult to mix. | |
| · Partition coefficient (n-octanol/ | water): Not determined. | |
| · Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| · Solvent content: | | |
| Organic solvents: | 56.1 % | |
| VOC content: | 43.65 % | |
| | 489.8 g/l / 4.09 lb/gl | |
| Solids content: | 43.9 % | |
| • 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: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

| · LD/LC50 | · LD/LC50 values that are relevant for classification: | | | |
|---------------------|---|-----------------------|--|--|
| 28182-81-2 | 28182-81-2 HDI Prepolymer | | | |
| Oral | LD50 | 1,000 mg/kg (rat) | | |
| Dermal | LD50 | 5,000 mg/kg (rabbit) | | |
| Inhalative | LC50/4 h | 137-1,150 mg/l (rat) | | |
| 110-43-0 h | 110-43-0 heptan-2-one | | | |
| Oral | LD50 | 1,670 mg/kg (rat) | | |
| Dermal | LD50 | 12,600 mg/kg (rabbit) | | |
| \cdot on the skin | Primary irritant effect: on the skin: Irritant to skin and mucous membranes. on the eye: Irritating effect. | | | |

(Contd. on page 8)

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Trade name: 50454 & 50456 World Class 4.2 VOC 4:1 Activator Fast

• Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

- Danger to drinking water if even small quantities leak into the ground.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

14 Transport information

- · UN-Number
- · DOT, ADR, IMDG, IATA

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| | · · · · · |
|---|--|
| | (Contd. of pag |
| UN proper shipping name | |
| DOT ADR | Flammable liquids, n.o.s. (n-butyl acetate, n-Amyl methyl ketone) 1993 Flammable liquids, n.o.s. (n-butyl acetate, n-Amyl meth ketone) |
| IMDG | FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, n-AMYL METH KETONE, HDI Prepolymer) |
| IATA | FLAMMABLE LIQUID, N.O.S. (n-butyl acetate, n-AMYL METH KETONE) |
| Transport hazard class(es) | |
| DOT | |
| | |
| 7 AMMAT 11007 | |
| Class | 3 Flammable liquids |
| Label | 3 |
| ADR, IATA | |
| | |
| Class | 3 Flammable liquids |
| Label | 3 |
| | |
| | |
| Class | 3 Flammable liquids |
| Label | 3 |
| Packing group DOT, ADR, IMDG, IATA | III |
| Environmental hazards: | Product contains environmentally hazardous substances: H Prepolymer |
| Marine pollutant: | Yes Symbol (fish and tree) |
| Special precautions for user | Warning: Flammable liquids |
| EMS Number: | <i>F-E</i> , <u><i>S-E</i></u> |
| Stowage Category | A |
| Transport in bulk according to Annex MARPOL73/78 and the IBC Code | II of Not applicable. |
| | (Contd. on page |



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Trade name: 50454 & 50456 World Class 4.2 VOC 4:1 Activator Fast

| | (Contd. of page |
|--|--|
| · Transport/Additional information: | |
| ·DOT | |
| · Quantity limitations | On passenger aircraft/rail: 60 L |
| | On cargo aircraft only: 220 L |
| $\cdot ADR$ | |
| \cdot Excepted quantities (EQ) | Code: El |
| | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 1000 ml |
| · IMDG | |
| · Limited quantities (LQ) | 5L |
| · Excepted quantities ($\widetilde{E}Q$) | Code: El |
| | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 1000 ml |
| · UN ''Model Regulation'': | UN 1993 FLAMMABLE LIQUIDS, N.O.S. (N-BUTYL ACETATI |
| - | N-AMYL METHYL KETONE), 3, III |

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 ingredient is listed.

· Section 313 (Specific toxic chemical listings):

112-07-2 2-butoxyethyl acetate

· TSCA (Toxic Substances Control Act):

All ingredients are 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.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

112-07-2 2-butoxyethyl acetate

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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Trade name: 50454 & 50456 World Class 4.2 VOC 4:1 Activator Fast

(Contd. of page 10) • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms

| • Hazard pictogram | ns 🔊 |
|--------------------|--|
| | |
| | |
| GHS02 GHS0 | 07 GHS08 |
| Signal word Dan | ger |
| | ing components of labeling: |
| HDI Prepolymer | |
| heptan-2-one | |
| n-butyl acetate | |
| 4-chloro-alpha,a | lpha,alpha-trifluorotoluene |
| Hazard statemen | ts |
| H226 Flammable | liquid and vapor. |
| H302 Harmful if | swallowed. |
| H315 Causes skin | n irritation. |
| H319 Causes ser | ious eye irritation. |
| H334 May cause | allergy or asthma symptoms or breathing difficulties if inhaled. |
| | an allergic skin reaction. |
| | damage to organs. |
| | drowsiness or dizziness. |
| Precautionary sta | |
| P210 | Keep away from heat/sparks/open flames/hot surfaces No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting/equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray. |
| P264 | Wash thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P272 | Contaminated work clothing must not be allowed out of the workplace. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P284 | [In case of inadequate ventilation] wear respiratory protection. |
| P301+P312 | If swallowed: Call a poison center/doctor if you feel unwell. |
| P330 | Rinse mouth. |
| | 53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ |
| 1 303 +1 301 +1 3. | shower. |
| P304+P341 | |
| P304+P341 | If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for |
| 205 בסבר בסבר | breathing. 28 If in succe Dings continuate with water for sourced minutes. Bemans contact langes, if mesont |
| P303+P331+P33 | 38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present |
| D200 D211 | and easy to do. Continue rinsing. |
| P308+P311 | IF exposed or concerned: Call a poison center/doctor. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P321 | Specific treatment (see on this label). |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P342+P311 | If experiencing respiratory symptoms: Call a poison center/doctor. |
| P363 | Wash contaminated clothing before reuse. |
| P370+P378 | In case of fire: Use for extinction: CO2, powder or water spray. |
| | (Contd. on page 12) |





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Trade name: 50454 & 50456 World Class 4.2 VOC 4:1 Activator Fast

| | (Contd. of page 11) |
|--------------------|---|
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| · Chemical safe | ty assessment: A Chemical Safety Assessment has not been carried out. |
| | |
| 16 Other inform | nation |
| | ion is based on our present knowledge. However, this shall not constitute a guarantee for any ct features and shall not establish a legally valid contractual relationship. |
| · Department is: | suing SDS: Environment protection department. |
| · Contact: Rita . | Ioiner (rjoiner@semproducts.com) |
| | ration / last revision 03/14/2018 / 10 |
| · Abbreviations | and acronyms: |
| | nternational concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the |
| International Tran | sport of Dangerous Goods by Rail) |
| | erous Goods Regulations by the "International Air Transport Association" (IATA) |
| ICAO: Internation | al Civil Aviation Organisation |

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods
- 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
- Flam. Liq. 3: Flammable liquids Category 3
- Acute Tox. 4: Acute toxicity Category 4
- Skin Irrit. 2: Skin corrosion/irritation Category 2
- Eye Irrit. 2A: Serious eye damage/eye irritation Category 2A
- Resp. Sens. 1: Respiratory sensitisation Category 1
- Skin Sens. 1: Skin sensitisation Category 1
- STOT SE 2: Specific target organ toxicity (single exposure) Category 2
- * Data compared to the previous version altered.

USA -