

# Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/25/2016

Reviewed on 03/15/2016

## 1 Identification

- **Product Identifier**
- **Trade name: 1150FC Activator**
- **Relevant identified uses of the substance or mixture and uses advised against:**  
No further relevant information
- **Product Description** Fast Curing 100% Solids Epoxy Floor Coating
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**  
SIMIRON  
32700 Industrial Drive  
Madison Heights, MI 48071  
Phone: (248) 686-3600  
Fax: (248) 677-9325  
www.simiron.com
- **Emergency telephone number:** 800-535-5053

## 2 Hazard(s) Identification

- **Classification of the substance or mixture:**



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements:**

- **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:**

Fatty acids, C18-unsatd., dimers, polymers with bisphenol  
A, epichlorohydrin, tall-oil fatty acids, tetraethylenepentamine and TETA  
Benzyl alcohol  
diethylenetriamine (DETA)

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Bisphenol A

**Hazard statements:**

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H361 Suspected of damaging fertility or the unborn child.

**Precautionary statements:**

- P260 Do not breathe dusts or mists.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P280 Wear protective gloves.
- P280 Wear eye protection / face protection.
- 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.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.
- P310 Immediately call a POISON CENTER/doctor.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P363 Wash contaminated clothing before reuse.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Unknown acute toxicity:**

12 % of the mixture consists of component(s) of unknown toxicity.

**Classification system:**

**NFPA ratings (scale 0 - 4)**



**HMIS-ratings (scale 0 - 4)**



**Hazard(s) not otherwise classified (HNOC):** None known

\* **3 Composition/Information on Ingredients**

- Chemical characterization: Mixtures**
- Description:** Mixture: consisting of the following components.

(Contd. on page 3)

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OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/25/2016

Reviewed on 03/15/2016

**Trade name: 1150FC Activator**

· <b>Dangerous Components:</b>		
CAS: 106906-26-7	Fatty acids, C18-unsatd., dimers, polymers with bisphenol A, epichlorohydrin, tall-oil fatty acids, tetraethylenepentamine and TETA ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	40-60%
CAS: 100-51-6 RTECS: DN 3150000	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	25-30%
CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	10-15%
CAS: 111-40-0 RTECS: IE 1225000	diethylenetriamine (DETA) ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	1-5%
CAS: 80-05-7 RTECS: SL 6300000	Bisphenol A ⚠ Repr. 2, H361; ⚠ Eye Dam. 1, H318; ⚠ Skin Sens. 1, H317; STOT SE 3, H335	1-3%
CAS: 112-57-2	3,6,9-triazaundecamethylenediamine ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	1-2%
CAS: 112-24-3	triethylenetetramine ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	1-2%

### \* 4 First-Aid Measures

· **Description of first aid measures:**

· **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Immediate medical treatment is necessary. Failure to treat burns can prevent wounds from healing.

Seek medical treatment.

· **After eye contact:**

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** 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.

### \* 5 Fire-Fighting Measures

· **Extinguishing media:**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards arising from the substance or mixture:** No further relevant information available.

(Contd. on page 4)



# Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/25/2016

Reviewed on 03/15/2016

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- **Advice for firefighters:**
- **Protective equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

## \* 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**

Do not inhale gases / fumes / aerosols  
Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:** No special measures required.

- **Methods and material for containment and cleaning up:**

Ensure adequate ventilation.  
Use neutralizing agent.  
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.

- **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

- **Handling**

- **Precautions for safe handling:**

Avoid contact with skin, eyes and clothing  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

- **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities:**

- **Storage**

- **Requirements to be met by storerooms and receptacles:** Store in a cool, dry place.

- **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 section 7.

- **Control parameters:**

- **Components with occupational exposure limits:**

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.

<b>100-51-6 Benzyl alcohol</b>	
WEEL	Long-term value: 10 ppm
<b>111-40-0 diethylenetriamine (DETA)</b>	
REL	Long-term value: 4 mg/m <sup>3</sup> , 1 ppm Skin
TLV	Long-term value: 4.2 mg/m <sup>3</sup> , 1 ppm Skin

(Contd. on page 5)

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/25/2016

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<b>112-57-2 3,6,9-triazaundecamethylenediamine</b>	
WEEL	Long-term value: 5 mg/m <sup>3</sup> Skin; DSEN
<b>112-24-3 triethylenetetramine</b>	
WEEL	Long-term value: 6 mg/m <sup>3</sup> , 1 ppm Skin

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls:**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Breathing equipment:**



NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

· **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.

Select glove material based on penetration times, rates of diffusion and 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 cannot 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 determined and observed by the manufacturer of the protective gloves.

· **Eye protection:**



Tightly sealed goggles

### \* 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:**

Liquid

**Color:**

Dark yellow

(Contd. on page 6)

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/25/2016

Reviewed on 03/15/2016

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- **Odor:** Ammonia-like
- **Odor threshold:** Not determined.
- **pH-value:** Alkaline
- **Change in condition**
  - Melting point/Melting range:** Not determined.
  - Boiling point/Boiling range:** 205 °C (401 °F)
- **Flash point:** None
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 435 °C (815 °F)
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower:** 1.3 Vol %
  - Upper:** 13.0 Vol %
- **Vapor pressure @ 20 °C (68 °F):** 0.1 hPa
- **Density @ 20 °C (68 °F):** 1.02 g/cm<sup>3</sup> (8.512 lbs/gal)
- **Relative density:** Not determined.
- **Vapor density:** Not determined.
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with:**
  - Water:** Soluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Solvent content:**
  - Organic solvents:** 29.0 %
  - VOC content:** 29.0 %
- **Solids content:** 1.8 %
- **Other information:** No further relevant information available.

**\*10 Stability and Reactivity**

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **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 further relevant information available.

(Contd. on page 7)

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/25/2016

Reviewed on 03/15/2016

**Trade name: 1150FC Activator**

**\* 11 Toxicological Information**

- **Information on toxicological effects:**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

<b>100-51-6 Benzyl alcohol</b>		
Oral	LD50	1230 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
<b>111-40-0 diethylenetriamine (DETA)</b>		
Oral	LD50	1080 mg/kg (rat)
Dermal	LD50	1090 mg/kg (rabbit)
<b>80-05-7 Bisphenol A</b>		
Oral	LD50	3250 mg/kg (rat)
Dermal	LD50	3000 mg/kg (rabbit)
<b>112-57-2 3,6,9-triazaundecamethylenediamine</b>		
Dermal	LD50	660 mg/kg (rabbit)
Inhalative	LC50/96 hours	420 mg/l (Trout)
<b>112-24-3 triethylenetetramine</b>		
Oral	LD50	2500 mg/kg (rat)
Dermal	LD50	805 mg/kg (rabbit)

- **Primary irritant effect:**
- **On the skin:**  
Strong caustic effect on skin and mucous membranes.  
May cause an allergic skin reaction.
- **On the eye:**  
Strong irritant with the danger of severe eye injury.  
Corrosive effect.  
Causes serious eye irritation.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful  
Corrosive  
Irritant  
Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· **Carcinogenic categories:**

· <b>IARC (International Agency for Research on Cancer):</b>
None of the ingredients are listed.
· <b>NTP (National Toxicology Program):</b>
None of the ingredients are listed.
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration):</b>
None of the ingredients are listed.

(Contd. on page 8)



**Safety Data Sheet (SDS)**

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/25/2016

Reviewed on 03/15/2016

**Trade name: 1150FC Activator****12 Ecological Information**· **Toxicity:**· **Aquatic toxicity:****112-57-2 3,6,9-triazaundecamethylenediamine**

EC50 24.1 mg/l (daphnia)

· **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:** Must not reach bodies of water or drainage ditch undiluted or unneutralized.· **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. Observe all federal, state and local environmental regulations when disposing of this material.

· **Uncleaned packagings**· **Recommendation:** Disposal must be made according to official regulations.**\* 14 Transport Information**· **UN-Number:**· **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material· **UN proper shipping name:**· **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material· **Transport hazard class(es):**· **DOT, ADR, ADN, IMDG, IATA**· **Class:** Non-Regulated Material· **Packing group:**· **DOT, ADR, IMDG, IATA** Non-Regulated Material· **Environmental hazards:** Not applicable.· **Special precautions for user:** Not applicable.· **Transport in bulk according to Annex II of****MARPOL73/78 and the IBC Code:** Not applicable.· **UN "Model Regulation":** Non-Regulated Material**15 Regulatory Information**· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**· **SARA (Superfund Amendments and Reauthorization):**· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

(Contd. on page 9)



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OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/25/2016

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**Trade name: 1150FC Activator**

<b>· Section 313 (Specific toxic chemical listings):</b>		
80-05-7	Bisphenol A	
<b>· TSCA (Toxic Substances Control Act):</b>		
106906-26-7	Fatty acids, C18-unsatd., dimers, polymers with bisphenol A, epichlorohydrin, tall-oil fatty acids, tetraethylenepentamine and TETA	
100-51-6	Benzyl alcohol	
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	
111-40-0	diethylenetriamine (DETA)	
80-05-7	Bisphenol A	
112-57-2	3,6,9-triazaundecamethylenediamine	
112-24-3	triethylenetetramine	
<b>· California Proposition 65:</b>		
<b>· Chemicals known to cause cancer:</b>		
None of the ingredients are listed.		
<b>· Chemicals known to cause reproductive toxicity for females:</b>		
80-05-7	Bisphenol A	
<b>· Chemicals known to cause reproductive toxicity for males:</b>		
None of the ingredients are listed.		
<b>· Chemicals known to cause developmental toxicity:</b>		
None of the ingredients are listed.		
<b>· New Jersey Right-to-Know List:</b>		
111-40-0	diethylenetriamine (DETA)	
80-05-7	Bisphenol A	
112-57-2	3,6,9-triazaundecamethylenediamine	
112-24-3	triethylenetetramine	
<b>· New Jersey Special Hazardous Substance List:</b>		
111-40-0	diethylenetriamine (DETA)	CO
112-57-2	3,6,9-triazaundecamethylenediamine	CO
112-24-3	triethylenetetramine	CO
<b>· Pennsylvania Right-to-Know List:</b>		
None of the ingredients are listed.		
<b>· Pennsylvania Special Hazardous Substance List:</b>		
80-05-7	Bisphenol A	E
<b>· Carcinogenic categories:</b>		
<b>· EPA (Environmental Protection Agency):</b>		
None of the ingredients are listed.		
<b>· TLV (Threshold Limit Value established by ACGIH):</b>		
None of the ingredients are listed.		
<b>· NIOSH-Ca (National Institute for Occupational Safety and Health):</b>		
None of the ingredients are listed.		

**· GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 10)

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/25/2016

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· **Hazard pictograms:**



GHS05 GHS07 GHS08

· **Signal word:** Danger

· **Hazard-determining components of labeling:**

Fatty acids, C18-unsatd., dimers, polymers with bisphenol A, epichlorohydrin, tall-oil fatty acids, tetraethylenepentamine and TETA  
Benzyl alcohol  
diethylenetriamine (DETA)  
Bisphenol A

· **Hazard statements:**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H361 Suspected of damaging fertility or the unborn child.

· **Precautionary statements:**

P260 Do not breathe dusts or mists.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P280 Wear protective gloves.  
P280 Wear eye protection / face protection.  
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.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.  
P310 Immediately call a POISON CENTER/doctor.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P363 Wash contaminated clothing before reuse.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. on page 11)



## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/25/2016

Reviewed on 03/15/2016

**Trade name: 1150FC Activator**

### 16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision:** 03/25/2016 / 1

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
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  
BEI: Biological Exposure Limit  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
Repr. 2: Reproductive toxicity, Hazard Category 2  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· **\* Data compared to the previous version altered.**

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