

**1 Identification**

- **Product identifier**
- **Trade Name: Tekton Gravel Guard**  
**Article number: Tekton 38**
- **Application of the substance / the mixture** Anticorrosion additive
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Chemicar USA  
670 New York Street  
Memphis, TN 38104  
Tel: 1 (800) 261-7976  
Fax: 1 (901) 274-8816  
Email: Gino.Bauwens@chemicar.com
- **Information department:** Product safety department.
- **Emergency telephone number:** Tel: 1 (800) 424-9300

**2 Hazard(s) identification**

- **Classification of the substance or mixture**



Highly flammable liquid and vapor.



May cause cancer.



Toxic to aquatic life with long lasting effects.



Causes skin irritation.  
Causes serious eye irritation. May  
cause drowsiness or dizziness.

Toxic to aquatic life.

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



- **Signal word** Danger
- **Hazard-determining components of labeling:**  
Naphtha (petroleum), hydrotreated light  
Ethanol

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- Ethyl acetate
- Naphtha (petroleum), hydrotreated light
- **Hazard statements**
- H225 Highly flammable liquid and vapor.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H350 May cause cancer.
- H336 May cause drowsiness or dizziness.
- H401 Toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P243 Take precautionary measures against static discharge.
- P280 Wear protective gloves/protective clothing/eye protection.
- 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.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2  
Fire = 3  
Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**3 Composition/information on ingredients**

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with additions.

· **Dangerous components:**

CAS: 64742-49-0 EC number: 927-510-4	Naphtha (petroleum), hydrotreated light	10-<25%
CAS: 141-78-6 EINECS: 205-500-4	Ethyl acetate	10-<25%
CAS: 64742-49-0 EC number: 921-024-6	Naphtha (petroleum), hydrotreated light	5-<10%
CAS: 64742-49-0 EC number: 920-750-0	Naphtha (petroleum), hydrotreated light	5-<10%
CAS: 64742-95-6 EC number: 918-668-5	Solvent naphtha (petroleum), light arom.	3-<5%
CAS: 64-17-5 EINECS: 200-578-6	Ethanol	<1%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.



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CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	1,000 mg/m <sup>3</sup>
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	1,000 mg/m <sup>3</sup>
CAS: 64-17-5	Ethanol	1,800 ppm
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	0.075 mg/m <sup>3</sup>
CAS: 71-36-3	butan-1-ol	60 ppm
CAS: 1185-55-3	trimethoxy(methyl)silane	38 mg/m <sup>3</sup>
CAS: 50-00-0	formaldehyde	0.90 ppm

**· PAC-2:**

CAS: 471-34-1	Calciumcarbonate	210 mg/m <sup>3</sup>
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	11,000 mg/m <sup>3</sup>
CAS: 141-78-6	Ethyl acetate	1,700 ppm
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	11,000 mg/m <sup>3</sup>
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	11,000 mg/m <sup>3</sup>
CAS: 64-17-5	Ethanol	3300* ppm
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	33 mg/m <sup>3</sup>
CAS: 71-36-3	butan-1-ol	800 ppm
CAS: 1185-55-3	trimethoxy(methyl)silane	410 mg/m <sup>3</sup>
CAS: 50-00-0	formaldehyde	14 ppm

**· PAC-3:**

CAS: 471-34-1	Calciumcarbonate	1,300 mg/m <sup>3</sup>
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	66,000 mg/m <sup>3</sup>
CAS: 141-78-6	Ethyl acetate	10000** ppm
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	66,000 mg/m <sup>3</sup>
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	66,000 mg/m <sup>3</sup>
CAS: 64-17-5	Ethanol	15000* ppm
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	200 mg/m <sup>3</sup>
CAS: 71-36-3	butan-1-ol	8000** ppm
CAS: 1185-55-3	trimethoxy(methyl)silane	2,500 mg/m <sup>3</sup>
CAS: 50-00-0	formaldehyde	56 ppm

**7 Handling and storage**

**· Handling:**

**· Precautions for safe handling**

- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- Use only in well ventilated areas.

**· Information about protection against explosions and fires:**

- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- Keep respiratory protective device available.

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

**· Storage:**

- Requirements to be met by storerooms and receptacles:** Store in a cool location.
- Information about storage in one common storage facility:** Not required.
- Further information about storage conditions:**
  - Keep receptacle tightly sealed.
  - Store in cool, dry conditions in well sealed receptacles.

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· **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.

**CAS: 141-78-6 Ethyl acetate**

PEL Long-term value: 1400 mg/m<sup>3</sup>, 400 ppm

REL Long-term value: 1400 mg/m<sup>3</sup>, 400 ppm

TLV Long-term value: 1440 mg/m<sup>3</sup>, 400 ppm

**CAS: 64-17-5 Ethanol**

PEL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

REL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

TLV Short-term value: 1880 mg/m<sup>3</sup>, 1000 ppm

· **Regulatory information**

PEL: Guide to Occupational Exposure Values (OSHA PELs)

REL: Guide to Occupational Exposure Values (NIOSH RELs)

TLV: Guide to Occupational Exposure Values (ACGIH)

· **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 and skin.

· **Breathing equipment:**



Filter A

· **Protection of hands:**



Protective gloves

· **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.

Fluorocarbon rubber (Viton)

Recommended thickness of the material:  $\geq 0.12$  mm

· **Penetration time of glove material**

> 480 min.

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 protection:**



Tightly sealed goggles

· **Body protection:** Use protective suit.

## 9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

· <b>Form:</b>	Fluid
· <b>Color:</b>	Grey
· <b>Odor:</b>	Characteristic
· <b>Odor threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	77 °C

· **Flash point:** -5 °C (DIN 53213)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** >200 °C

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

· <b>Lower:</b>	0.6 Vol %
· <b>Upper:</b>	10.5 Vol %

· **Vapor pressure at 20 °C:** 98.3 hPa

· **Vapour pressure at 50 °C:** 306 hPa

· **Density at 20 °C:** 1.04 g/cm<sup>3</sup> (DIN 51757)

· **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:**

· <b>Dynamic at 20 °C:</b>	690 mPas
· <b>Kinematic:</b>	Not determined.

· **Solvent content:**

· <b>Organic solvents:</b>	52.8 %
· <b>VOC content:</b>	52.76 %

· **Solids content:** 47.0 % (DIN 53216)

· **Other information** No further relevant information available.

· **VOC (EU):** 52.76 %

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· **VOC (EU):** 548.7 g/l  
· **VOC (US):** 548.7 g/l / 4.58 lb/gal

### 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

### 11 Toxicological information

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

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

**ATE (Acute Toxicity Estimate)**

Oral	LD50	>15,516 mg/kg
Dermal	LD50	>7,088 mg/kg
Inhalative	LC50/4 h	>73.7 mg/l (RAT)

**CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light**

Oral	LD50	>5,840 mg/kg (RAT)
Dermal	LD50	>2,920 mg/kg (RAT)
Inhalative	LC50/4 h	>23.3 mg/l (RAT)

**CAS: 141-78-6 Ethyl acetate**

Oral	LD50	>2,000 mg/kg (RABBIT)
Inhalative	LC50/4 h	1,600 mg/l (RAT)
	LC50/96 h	230 mg/l (pimephales promelas)

**CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light**

Oral	LD50	>5,840 mg/kg (RAT)
Dermal	LD50	>2,920 mg/kg (RABBIT)
Inhalative	LC50/4 h	>25.2 mg/l (RAT)

**CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light**

Oral	LD50	>5,000 mg/kg (RAT)
Dermal	LD50	>2,800 mg/kg (RABBIT)
Inhalative	LC 50	>23.3 mg/l (RAT)

**CAS: 64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD50	3,492 mg/kg (RAT)
Dermal	LD50	>3,160 mg/kg (RABBIT)
Inhalative	LC50/4 h	>6,193 mg/l (RAT)

**CAS: 64-17-5 Ethanol**

Oral	LD50	7,060 mg/kg (rat)
Inhalative	LC50/4 h	20,000 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.

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· **on the eye:**

Irritation to eyes possible after a long exposure time.  
Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

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

Irritant

No further relevant information available.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

CAS: 9003-55-8	Benzene, ethenyl-, polymer with 1,3-butadiene	3
CAS: 64-17-5	Ethanol	1
CAS: 14808-60-7	Quartz (SiO <sub>2</sub> )	1
CAS: 1333-86-4	Carbon black	2B
CAS: 50-00-0	formaldehyde	1

· **NTP (National Toxicology Program)**

Quartz (SiO <sub>2</sub> )	K	<1%
formaldehyde	K	<1%

· **OSHA-Ca (Occupational Safety & Health Administration)**

CAS: 50-00-0	formaldehyde
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**12 Ecological information**

· **Toxicity**

· **Aquatic toxicity:**

**CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light**

LL50/96 h >13.4 mg/l (SALMO GAIRDNERI / ONCORHYNCHUS MYKISS)

EL50/48 h 3 mg/l (DAPHNIA MAGNA)

EL50/72 h 10-30 mg/l (SELENASTRUM CAPRICORNUTUM)

**CAS: 141-78-6 Ethyl acetate**

EC50/48 h 5,600 mg/l (ALGAE)

610 mg/l (DAPHNIA MAGNA)

**CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light**

LL50/96 h 11.4 mg/l (SALMO GAIRDNERI / ONCORHYNCHUS MYKISS)

EC50/48 h 10 mg/l (PHAEOPHYTA)

EL50/48 h 3 mg/l (DAPHNIA MAGNA)

EL50/72 h 30-100 mg/l (SELENASTRUM CAPRICORNUTUM)

**CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light**

LL50/96 h >13.4 mg/l (SALMO GAIRDNERI / ONCORHYNCHUS MYKISS)

EL50/48 h 3 mg/l (DAPHNIA MAGNA)

EL50/72 h 10-30 mg/l (SELENASTRUM CAPRICORNUTUM)

**CAS: 64742-95-6 Solvent naphtha (petroleum), light arom.**

LL50/96 h 9.2 mg/l (SALMO GAIRDNERI / ONCORHYNCHUS MYKISS)

EC50/48 h 7.4 mg/l (DAPHNIA MAGNA)

EL50/48 h 3.2 mg/l (DAPHNIA MAGNA)

EL50/72 h 2.9 mg/l (SELENASTRUM CAPRICORNUTUM)

· **Persistence and degradability** No further relevant information available.

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- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **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.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **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.  
Dispose of as dangerous waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **UN-Number**
- **DOT, ADR/RID/ADN, IMDG, IATA**      UN1139
- **UN proper shipping name**
- **DOT**      Coating solution
- **ADR/RID/ADN**      1139 Coating solution, ENVIRONMENTALLY HAZARDOUS, special provision 640D
- **IMDG**      COATING SOLUTION (HEPTANES, Naphtha (petroleum), hydrotreated light), MARINE POLLUTANT
- **IATA**      COATING SOLUTION
- **Transport hazard class(es)**
- **DOT**
- 
- **Class**      3 Flammable liquids
- **Label**      3
- **ADR/RID/ADN, IMDG**
- 
- **Class**      3 Flammable liquids


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· <b>Label</b>	3
· <b>IATA</b>	
	
· <b>Class</b>	3 Flammable liquids
· <b>Label</b>	3
· <b>Packing group</b>	
· <b>DOT, ADR/RID/ADN, IMDG, IATA</b>	II
· <b>Environmental hazards:</b>	Product contains environmentally hazardous substances: Naphtha (petroleum), hydrotreated light
· <b>Marine pollutant:</b>	Yes
· <b>Special marking (ADR/RID/ADN):</b>	Symbol (fish and tree)
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Danger code (Kemler):</b>	33
· <b>EMS Number:</b>	F-E, <u>S-E</u>
· <b>Stowage Category</b>	B
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	Transport classification ADR/IMGD is based on packaging >30ltr(IMDG), <450ltr(ADR). For other packaging untis different classification can apply.
· <b>DOT</b>	
· <b>Quantity limitations</b>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· <b>ADR/RID/ADN</b>	
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1139 COATING SOLUTION, SPECIAL PROVISION 640D, 3, II, ENVIRONMENTALLY HAZARDOUS

**15 Regulatory information**

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

· Sara

· **Section 355 (extremely hazardous substances):**

formaldehyde	<1%
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· **Section 313 (Specific toxic chemical listings):**

butan-1-ol	<1%
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formaldehyde	<1%
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· **Proposition 65**

· **Chemicals known to cause cancer:**

Quartz (SiO <sub>2</sub> )	<1%
Carbon black	<1%
formaldehyde	<1%

· **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:**

Ethanol	<1%
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· **Carcinogenity categories**

· **EPA (Environmental Protection Agency)**

butan-1-ol	D	<1%
formaldehyde	B1	<1%

· **TLV (Threshold Limit Value established by ACGIH)**

Ethanol	A3	<1%
Quartz (SiO <sub>2</sub> )	A2	<1%
Carbon black	A4	<1%
formaldehyde	A2	<1%

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

Quartz (SiO <sub>2</sub> )	<1%
Carbon black	<1%
formaldehyde	<1%

· **GHS label elements**

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

· **Hazard pictograms**



GHS02 GHS07 GHS08 GHS09

· **Signal word Danger**

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

Naphtha (petroleum), hydrotreated light

Ethanol

Ethyl acetate

Naphtha (petroleum), hydrotreated light

· **Hazard statements**

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H350 May cause cancer.

H336 May cause drowsiness or dizziness.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/protective clothing/eye protection.

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- 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.*
- P403+P233 *Store in a well-ventilated place. Keep container tightly closed.*
- P405 *Store locked up.*
- P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

- **National regulations:**
- **Additional classification according to Decree on Hazardous Materials:**  
Carcinogenic hazardous material group III (dangerous).
- **Information about limitation of use:**  
*Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.*
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **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.*

- **Department issuing SDS:** Product safety department.
- **Contact:** gino.bauwens@chemicar.com
- **Date of preparation / last revision** 09/27/2018 / 19
- **Abbreviations and acronyms:**  
*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*  
*ICAO: International Civil Aviation Organisation*  
*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)*  
*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. 2: Flammable liquids – Category 2*  
*Skin Irrit. 2: Skin corrosion/irritation – Category 2*  
*Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A*  
*Carc. 1A: Carcinogenicity – Category 1A*  
*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*  
*Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2*  
*Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*
- **\* Data compared to the previous version altered.**