



## SAFETY DATA SHEET

### TG.L20.22 TensorGrip L20 Canister

According to Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, December 2011

#### SECTION 1: Identification: Product identifier and chemical identity

##### Product identifier

**Product name** TG.L20.22 TensorGrip L20 Canister

##### Relevant identified uses of the substance or mixture and uses advised against

**Application** Adhesive.

**Uses advised against** Use only for intended applications.

##### Details of the supplier of the safety data sheet

##### **Supplier**

Quin Global PTY LTD  
63 Hincksman Street  
Queanbeyan NSW 2620  
(02) 6175 0574  
info@quin-global.com.au

##### Emergency telephone number

**Emergency telephone** +61 2 6175 0574 National Poison Line AU 13 11 26

#### SECTION 2: Hazard(s) identification

##### Classification of the substance or mixture

**Physical hazards** Aerosol 1 - H222, H229 Press. Gas, Compressed - H280

**Health hazards** Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H336 Asp. Tox. 1 - H304

**Environmental hazards** Aquatic Chronic 2 - H411

##### Label elements

##### **Pictogram**



##### **Signal word**

Danger

##### **Hazard statements**

H229 Pressurised container: may burst if heated  
H280 Contains gas under pressure; may explode if heated.  
H304 May be fatal if swallowed and enters airways.  
H312+H332 Harmful in contact with skin or if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

##### **Additional information**

For professional users only.

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### Precautionary statements

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. - No smoking.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P312 Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P337+P313 If eye irritation persists: Get medical advice/ attention.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
 P501 Dispose of contents/ container in accordance with national regulations.

### Contains

METHYL ACETATE, HEPTANE

### Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition and information on ingredients

### Mixtures

<b>methyl acetate</b> <span style="float: right;">30-60%</span> CAS number: 79-20-9
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2A - H319 STOT SE 3 - H336
<b>heptane</b> <span style="float: right;">10-30%</span> CAS number: 142-82-5 M factor (Acute) = 1                      M factor (Chronic) = 1
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
<b>Carbon dioxide</b> <span style="float: right;">5-10%</span> CAS number: 124-38-9
<b>Classification</b> Press. Gas, Liquefied - H280
<b>Dimethyl ether</b> <span style="float: right;">5-10%</span> CAS number: 115-10-6
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas, Liquefied - H280

The full text for all hazard statements is displayed in Section 16.

## SECTION 4: First aid measures

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### Description of first aid measures

<b>General information</b>	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
<b>Skin Contact</b>	Remove contamination with soap and water or recognised skin cleansing agent. Continue to rinse for at least 15 minutes. If adhesive bonding occurs, do not force skin apart.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes and get medical attention. If adhesive bonding occurs, do not force eyelids apart.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

### Most important symptoms and effects, both acute and delayed

<b>General information</b>	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	A single exposure may cause the following adverse effects: Headache. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic effect. During application and drying, solvent vapours will be emitted. Vapours in high concentrations are narcotic.
<b>Ingestion</b>	May cause stomach pain or vomiting. May cause drowsiness or dizziness.
<b>Skin contact</b>	Redness. Irritating to skin. Bonds skin and eyes in seconds.
<b>Eye contact</b>	Irritating to eyes. Bonds skin and eyes in seconds.

### Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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### **SECTION 5: Firefighting measures**

#### Extinguishing media

<b>Suitable extinguishing media</b>	The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

#### Special hazards arising from the substance or mixture

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<b>Specific hazards</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up. Bursting aerosol containers may be propelled from a fire at high speed. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Vapours may form explosive mixtures with air.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Harmful gases or vapours.
<b>Advice for firefighters</b>	
<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to Australia/New Zealand Standards AS/NZS 4967 (for clothing) AS/NZS 1801 (for helmets), AS/NZS 4821 (for protective boots), AS/NZS 1801 (for protective gloves) will provide a basic level of protection for chemical incidents.
<b>Hazchem Code</b>	2YE

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Evacuate area. Risk of explosion. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated.
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#### Environmental precautions

<b>Environmental precautions</b>	Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).
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#### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Approach the spillage from upwind. Under normal conditions of handling and storage, spillages from aerosol containers are unlikely. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Small Spillages: Wipe up with an absorbent cloth and dispose of waste safely. Large Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Flush away spillage with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
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#### Reference to other sections

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**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

### SECTION 7: Handling and storage, including how the chemical may be safely used

#### Precautions for safe handling

##### **Usage precautions**

For professional users only. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Avoid exposing aerosol containers to high temperatures or direct sunlight. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin. Avoid contact with eyes.

##### **Advice on general occupational hygiene**

Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

#### Conditions for safe storage, including any incompatibilities

##### **Storage precautions**

Store at temperatures between 10°C and 25°C. Store away from incompatible materials (see Section 10). Store in accordance with national regulations. Keep away from oxidising materials, heat and flames. Keep only in the original container. Keep container tightly closed and in a well-ventilated place. Keep containers upright. Protect containers from damage. Protect from sunlight. Do not store near heat sources or expose to high temperatures. Do not expose to temperatures exceeding 50 °C/ 122 °F. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

##### **Storage class**

Flammable compressed gas storage.

#### Specific end use(s)

##### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.

### SECTION 8: Exposure controls and personal protection

#### Control parameters

#### Occupational exposure limits

##### **heptane**

Long-term exposure limit (8-hour TWA): 400 ppm 1640 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): 500 ppm 2050 mg/m<sup>3</sup>

##### **Carbon dioxide**

Long-term exposure limit (8-hour TWA): 12500 ppm 22500 mg/m<sup>3</sup> in coal mines

Short-term exposure limit (15-minute): 30000 ppm 54000 mg/m<sup>3</sup> in coal mines

Long-term exposure limit (8-hour TWA): 5000 ppm 9000 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): 30000 ppm 54000 mg/m<sup>3</sup>

##### **Dimethyl ether**

Long-term exposure limit (8-hour TWA): 400 ppm 760 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): 500 ppm 950 mg/m<sup>3</sup>

#### Exposure controls

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### Protective equipment



### Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure the ventilation system is regularly maintained and tested. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with Australia/New Zealand Standard AS/NZS 1337. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacture, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with Australia/New Zealand Standard AS/NZS 2161. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

### Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

### Hygiene measures

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.

### Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and complies with Australia/New Zealand Standard AS/NZS 1716. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716. Full face mask respirators with replaceable filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716. Half mask and quarter mask respirators with replaceable filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716.

### Environmental exposure controls

Keep container tightly sealed when not in use.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

Aerosol.

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<b>Colour</b>	Amber.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	57°C @ 1013 hPa
<b>Flash point</b>	-15°C
<b>Evaporation rate</b>	Not available.
<b>Evaporation factor</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Flammability Limit - Lower(%)</b>	Lower flammable/explosive limit: 1.0 % Upper flammable/explosive limit: 13 %
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	0.83
<b>Solubility Value (g/100g H<sub>2</sub>O 20°C)</b>	Insoluble in water.
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	275°C
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 273 g/l.

### SECTION 10: Stability and reactivity

<b>Reactivity</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
<b>Possibility of hazardous reactions</b>	The following materials may react strongly with the product: Oxidising agents.
<b>Conditions to avoid</b>	Avoid exposing aerosol containers to high temperatures or direct sunlight. Containers can burst violently or explode when heated, due to excessive pressure build-up.
<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
<b>Hazardous decomposition products</b>	Thermal decomposition or combustion products may include the following substances: Acrid smoke or fumes.

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### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.0

**Species** Rabbit

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE dermal (mg/kg)** 2,000.0

##### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 5.0

**Species** Rat

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE inhalation (vapours mg/l)** 11.0

##### Skin corrosion/irritation

**Skin corrosion/irritation** Causes skin irritation.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye irritation.

##### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

##### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

##### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

##### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

##### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

##### Specific target organ toxicity - single exposure

**STOT - single exposure** May cause drowsiness or dizziness.

**Target organs** Central nervous system

##### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

##### Aspiration hazard

**Aspiration hazard** May be fatal if swallowed and enters airways.

##### General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.



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<b>Inhalation</b>	A single exposure may cause the following adverse effects: Headache. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic effect. During application and drying, solvent vapours will be emitted. Vapours in high concentrations are narcotic.
<b>Ingestion</b>	Gastrointestinal symptoms, including upset stomach.
<b>Skin Contact</b>	Redness. Irritating to skin. Bonds skin and eyes in seconds.
<b>Eye contact</b>	Irritating to eyes. Bonds skin and eyes in seconds.

### SECTION 12: Ecological Information

**Toxicity** Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

#### Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

#### Bioaccumulative potential

**Bioaccumulative Potential** No data available on bioaccumulation.

**Partition coefficient** Not available.

#### Mobility in soil

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

#### Other adverse effects

**Other adverse effects** None known.

### SECTION 13: Disposal considerations

#### Waste treatment methods

**General information** The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**Disposal methods** Do not empty into drains. Empty containers must not be punctured or incinerated because of the risk of an explosion. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

### SECTION 14: Transport information

#### UN number

**UN No. (ADG)** 3501

**UN No. (IMDG)** 3501

**UN No. (ICAO)** 3501

#### UN proper shipping name

## TG.L20.22 TensorGrip L20 Canister

**Proper shipping name (ADG)** CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (METHYL ACETATE, HEPTANE)

**Proper shipping name (IMDG)** CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (METHYL ACETATE, HEPTANE)

**Proper shipping name (ICAO)** CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (METHYL ACETATE, HEPTANE)

### Transport hazard class(es)

**ADG class** 2.1

**ADG classification code** 8F

**ADG label** 2.1

**IMDG class** 2.1

**ICAO class/division** 2.1

### Transport labels



### Packing group

No information required.

### Environmental hazards

**Environmentally hazardous substance/marine pollutant**



### Special precautions for user

**EmS** F-D, S-U

**Hazchem Code** 2YE

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information required.

## SECTION 15: Regulatory information

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

**Guidance** Workplace Exposure Limits EH40.  
Introduction to Local Exhaust Ventilation HS(G)37.

## SECTION 16: Any other relevant information

**Classification abbreviations and acronyms**

- Aerosol = Aerosol
- Eye Irrit. = Eye irritation
- Skin Irrit. = Skin irritation
- STOT SE = Specific target organ toxicity-single exposure
- Aquatic Chronic = Hazardous to the aquatic environment (chronic)

**Training advice** Read and follow manufacturer's recommendations. Only trained personnel should use this material.

**Revision date** 30/03/2017

**TG.L20.22 TensorGrip L20 Canister**

<b>Revision</b>	3
<b>Supersedes date</b>	24/08/2016
<b>SDS No.</b>	21703
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H229 Pressurised container: may burst if heated H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.