



## SAFETY DATA SHEET

### TENSORGRIP H50 SPRAY ADHESIVE AEROSOL

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Product name TENSORGRIP H50 SPRAY ADHESIVE AEROSOL

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

Identified uses Adhesive.

Uses advised against Use only for intended applications.

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

Supplier QUIN GLOBAL (UK) LTD  
PO BOX 7634  
PERTH  
PH2 1GA  
+44 (0)845 381 2233  
technical.uk@quinglobal.com

##### 1.4. Emergency telephone number

Emergency telephone +44 (0)845 381 2233 (Mon - Fri) 09:00 - 16:00

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

Physical hazards Aerosol 1 - H222, H229

Health hazards Skin Irrit. 2 - H315 STOT SE 3 - H336

Environmental hazards Aquatic Chronic 2 - H411

##### 2.2. Label elements

###### Pictogram



Signal word Danger

Hazard statements  
H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

Additional information For professional users only.

## TENSORGRIP H50 SPRAY ADHESIVE AEROSOL

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing spray.

P264 Wash contaminated skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTRE/doctor if you feel unwell.

P321 Specific treatment (see medical advice on this label).

P332+P313 If skin irritation occurs: Get medical advice/ attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, Acetone

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>Dimethyl ether</b> <span style="float: right;"><b>30-60%</b></span>		
CAS number: 115-10-6	EC number: 204-065-8	REACH registration number: 01-2119472128-37-XXXX
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas (Liq.) - H280		
<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics</b> <span style="float: right;"><b>30-60%</b></span>		
CAS number: —	EC number: 921-024-6	REACH registration number: 01-2119475514-35-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		

## TENSORGRIP H50 SPRAY ADHESIVE AEROSOL

<b>Acetone</b>			<b>1-5%</b>
CAS number: 67-64-1	EC number: 200-662-2	REACH registration number: 01-2119471330-49-XXXX	
<b>Classification</b>			
Flam. Liq. 2 - H225			
Eye Irrit. 2 - H319			
STOT SE 3 - H336			

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Place unconscious person on their side in the recovery position and ensure breathing can take place.
<b>Ingestion</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse nose and mouth with water. Place unconscious person on their side in the recovery position and ensure breathing can take place. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Skin contact</b>	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Remove contamination with soap and water or recognised skin cleansing agent. If adhesive bonding occurs, do not force skin apart. Get medical attention if symptoms are severe or persist after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If adhesive bonding occurs, do not force eyelids apart. Continue to rinse for at least 15 minutes and get medical attention.

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

<b>Inhalation</b>	Coughing, chest tightness, feeling of chest pressure. Irritation of nose, throat and airway. May cause drowsiness or dizziness.
<b>Ingestion</b>	Coughing, chest tightness, feeling of chest pressure. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. May cause chemical burns in mouth, oesophagus and stomach.
<b>Skin contact</b>	Bonds skin and eyes in seconds. Causes skin irritation.
<b>Eye contact</b>	Bonds skin and eyes in seconds. Causes serious eye irritation. Severe irritation, burning and tearing.

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

<b>Notes for the doctor</b>	Treat symptomatically.
-----------------------------	------------------------

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
-------------------------------------	---

## TENSORGRIP H50 SPRAY ADHESIVE AEROSOL

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** The product is highly flammable. Containers can burst violently or explode when heated, due to excessive pressure build-up.

**Hazardous combustion products** Toxic gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Evacuate area. Stop leak if safe to do so. 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. Use water spray to reduce vapours.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

## **SECTION 6: Accidental release measures**

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

**Personal precautions** For personal protection, see Section 8. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Keep unnecessary and unprotected personnel away from the spillage. No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of vapours. Avoid contact with skin, eyes and clothing. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains and the aquatic environment.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Contain spillage with sand, earth or other suitable non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Dispose of contents/container in accordance with national regulations. Wash thoroughly after dealing with a spillage. Under normal conditions of handling and storage, spillages from aerosol containers are unlikely.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Usage precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapour/spray. Avoid the formation of mists. Use only non-sparking tools.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. Wash skin thoroughly after handling. Take off contaminated clothing and wash it before reuse.

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

## TENSORGRIP H50 SPRAY ADHESIVE AEROSOL

### Storage precautions

Keep container tightly closed and at temperature not exceeding 50°C. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight.

### 7.3. Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Dimethyl ether

Long-term exposure limit (8-hour TWA): WEL 400 ppm 766 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 958 mg/m<sup>3</sup>

##### Acetone

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### Dimethyl ether (CAS: 115-10-6)

##### DNEL

Workers - Inhalation; Long term systemic effects: 1894 mg/m<sup>3</sup>

General population - Inhalation; Long term systemic effects: 471 mg/m<sup>3</sup>

##### PNEC

- Fresh water; 0.155 mg/l

- Marine water; 0.016 mg/l

- Intermittent release; 1.549 mg/l

- STP; 160 mg/l

- Sediment (Freshwater); 0.681 mg/kg

- Sediment (Marinewater); 0.069 mg/kg

- Soil; 0.045 mg/kg

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

##### DNEL

Workers - Inhalation; Long term systemic effects: 2035 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 773 mg/kg/day

General population - Inhalation; Long term systemic effects: 608 mg/kg/day

General population - Dermal; Long term systemic effects: 699 mg/kg/day

General population - Oral; Long term systemic effects: 699 mg/kg/day

#### Acetone (CAS: 67-64-1)

##### DNEL

Workers - Inhalation; Long term systemic effects: 1210 mg/m<sup>3</sup>

Workers - Inhalation; Short term local effects: 2420 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 186 mg/kg/day

General population - Inhalation; Long term systemic effects: 200 mg/m<sup>3</sup>

General population - Dermal; Long term systemic effects: 62 mg/kg/day

General population - Oral; Long term systemic effects: 62 mg/kg/day

## TENSORGRIP H50 SPRAY ADHESIVE AEROSOL

### PNEC

- Fresh water; 10.6 mg/l
- Marine water; 1.06 mg/l
- Intermittent release; 21 mg/l
- STP; 100 mg/l
- Sediment (Freshwater); 30.4 mg/kg
- Sediment (Marinewater); 3.04 mg/kg
- Soil; 29.5 mg/kg

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Eye/face protection

Chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. 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.

#### Other skin and body protection

Wear apron or protective clothing in case of contact.

#### Hygiene measures

Wash skin thoroughly after handling. Take off contaminated clothing and wash it before reuse.

#### Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Wear a respirator fitted with the following cartridge: Organic vapour + dust and mist filter.

#### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Clear.
Odour	Characteristic.
Odour threshold	Not available.
pH	Not available.

## TENSORGRIP H50 SPRAY ADHESIVE AEROSOL

<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	55°C @ 1013 hPa
<b>Flash point</b>	-29°C
<b>Evaporation rate</b>	No specific test data are available.
<b>Evaporation factor</b>	Not available.
<b>Flammability (solid, gas)</b>	Extremely flammable aerosol.
<b>Upper/lower flammability or explosive limits</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>	0.66 - 0.70
<b>Bulk density</b>	Not available.
<b>Solubility(ies)</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 determined.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

### 9.2. Other information

<b>Other information</b>	No information required.
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 607 g/l.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	See the other subsections of this section for further details.
-------------------	--

### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
------------------	---

### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Under normal conditions of storage and use, no hazardous reactions will occur.
---	--

### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid exposing aerosol containers to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition. Static electricity and formation of sparks must be prevented.
----------------------------	--

### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong oxidising agents. Strong acids.
---------------------------	--

### 10.6. Hazardous decomposition products

## TENSORGRIP H50 SPRAY ADHESIVE AEROSOL

<b>Hazardous decomposition products</b>	None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Very toxic gases or vapours.
---	---

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Toxicological effects** No data recorded.

#### Acute toxicity - oral

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

#### Acute toxicity - dermal

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

#### Acute toxicity - inhalation

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

#### Skin corrosion/irritation

**Skin corrosion/irritation** Irritating to skin.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Based on available data the classification criteria are not met.

#### 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** STOT SE 3 - H336 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** Not relevant.

**Inhalation** Coughing, chest tightness, feeling of chest pressure. May cause drowsiness or dizziness.

**Ingestion** Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

**Skin contact** Bonds skin and eyes in seconds. May cause skin irritation.

**Eye contact** Irritation of eyes and mucous membranes.

#### Toxicological information on ingredients.



## TENSORGRIP H50 SPRAY ADHESIVE AEROSOL

### Dimethyl ether

#### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> gases ppmV) 164,000.0

Species Rat

ATE inhalation (gases ppm) 164,000.0

#### Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative.

Genotoxicity - in vivo Genome mutation: Negative.

#### Carcinogenicity

Carcinogenicity NOAEL 2.5 %, Inhalation, Rat

#### Reproductive toxicity

Reproductive toxicity - development Developmental toxicity: - NOAEL: 40000 ppm, Inhalation, Rat

#### Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 2.5 %, Inhalation, Rat

### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

#### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,840.0

Species Rat

ATE oral (mg/kg) 5,840.0

#### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,800.0

Species Rat

ATE dermal (mg/kg) 2,800.0

#### Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) LC<sub>50</sub> : >25.2 mg/l, Inhalation, Vapour, Rat 4 hours

#### Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Very slight erythema - barely perceptible (1). Primary dermal irritation index: 0.67 Oedema score: No oedema (0). Irritating.

#### Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.2 ml, 7 days, Rabbit Not irritating.

#### Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

## TENSORGRIP H50 SPRAY ADHESIVE AEROSOL

### Germ cell mutagenicity

**Genotoxicity - in vitro** Bacterial reverse mutation test: Negative. Read-across data.

### Reproductive toxicity

**Reproductive toxicity - fertility** Two-generation study - NOAEL 31680 mg/m<sup>3</sup>, Inhalation, Rat P

**Reproductive toxicity - development** Developmental toxicity: - NOAEC: > 7000 ppm, Inhalation, Rabbit Read-across data.

### Specific target organ toxicity - single exposure

**STOT - single exposure** STOT SE 3 - H336 May cause drowsiness or dizziness.

**Target organs** Central nervous system

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEC 14000 mg/m<sup>3</sup>, Inhalation, Rat

### Aspiration hazard

**Aspiration hazard** Aspiration hazard if swallowed.

### Acetone

### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 5800 mg/kg, Oral, Rat REACH dossier information.

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >15800 mg/kg, Dermal, Rabbit REACH dossier information.

### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> ~132 mg/l, Inhalation, Rat REACH dossier information.

### Skin corrosion/irritation

**Animal data** Dose: 10 µl, 3 days, Guinea pig Erythema/eschar score: No erythema (0). Oedema score: No oedema (0).

### Serious eye damage/irritation

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

### Skin sensitisation

**Skin sensitisation** Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Chromosome aberration: Negative.

### Carcinogenicity

**Carcinogenicity** NOEL 79 mg, Inhalation, Mouse

### Reproductive toxicity

**Reproductive toxicity - development** Maternal toxicity: - NOAEC: 2200 ppm, Inhalation, Rat

### Specific target organ toxicity - single exposure

**STOT - single exposure** STOT SE 3 - H336 May cause drowsiness or dizziness.

## TENSORGRIP H50 SPRAY ADHESIVE AEROSOL

**Target organs** Central nervous system

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure** NOAEL 50000 ppm, Oral, Rat

### SECTION 12: Ecological Information

#### 12.1. Toxicity

**Toxicity** Toxic to aquatic life with long lasting effects.

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >1-10 mg/l, Fish

**Acute toxicity - microorganisms** LC<sub>50</sub>, 96 hours: >1-10 mg/l, Algae

#### Ecological information on ingredients.

#### Dimethyl ether

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: > 4100 mg/l, Poecilia reticulata (Guppy)  
NOEC, 96 hours: ≥ 4100 mg/l, Poecilia reticulata (Guppy)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: > 4400 mg/l, Daphnia magna  
NOEC, 48 hours: ≥ 4400 mg/l, Daphnia magna

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

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

##### Acute aquatic toxicity

**Acute toxicity - fish** LL<sub>50</sub>, 72 hours: 10 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** EL50, 48 hours: 3 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EL50, 72 hours: 10-30 mg/l, Pseudokirchneriella subcapitata

##### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** NOELR, 28 days: 2.045 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 0.17 mg/l, Daphnia magna  
LOEC, 21 days: 0.32 mg/l, Daphnia magna  
EC<sub>50</sub>, 21 days: 0.23 mg/l, Daphnia magna

#### Acetone

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 5540 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 48 hours: 8800 mg/l, Daphnia pulex

**Acute toxicity - microorganisms** EC<sub>50</sub>, 30 minutes: 61150 mg/l, Activated sludge

## TENSORGRIP H50 SPRAY ADHESIVE AEROSOL

### Chronic aquatic toxicity

**Chronic toxicity - aquatic invertebrates** NOEC, 28 days: 2212 mg/l, Daphnia magna

### 12.2. Persistence and degradability

**Persistence and degradability** The product is expected to be slowly biodegradable.

### Ecological information on ingredients.

#### Dimethyl ether

**Biodegradation** Water - Degradation (5%): 28 days  
No biodegradation observed under test conditions.

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

**Biodegradation** Water - Degradation (83%): 16 days  
Water - Degradation (98%): 28 days  
The substance is readily biodegradable.

#### Acetone

**Phototransformation** Air - DT<sub>50</sub> : ~ 10 days

**Biodegradation** Water - Degradation (100%): 4 days  
The substance is readily biodegradable.

### 12.3. Bioaccumulative potential

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

**Partition coefficient** Not available.

### Ecological information on ingredients.

#### Dimethyl ether

**Partition coefficient** log Pow: 0.07

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

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

#### Acetone

**Bioaccumulative potential** The product is not bioaccumulating.

**Partition coefficient** log Pow: -0.24

### 12.4. Mobility in soil

**Mobility** Semi-mobile. The product contains volatile substances which may spread in the atmosphere.

### Ecological information on ingredients.

#### Dimethyl ether

**Mobility** The product is soluble in water.

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

## TENSORGRIP H50 SPRAY ADHESIVE AEROSOL

<b>Mobility</b>	The product has poor water-solubility.
<b>Surface tension</b>	20.9 mN/m @ 25°C

### Acetone

<b>Mobility</b>	The product is soluble in water.
<b>Henry's law constant</b>	3 Pa m <sup>3</sup> /mol @ 25°C
<b>Surface tension</b>	23 mN/m @ 20 - 25°C

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Ecological information on ingredients.

### Dimethyl ether

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### Acetone

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>General information</b>	Empty containers must not be punctured or incinerated because of the risk of an explosion.
<b>Disposal methods</b>	Do not empty into drains. Collect and place in suitable waste disposal containers and seal securely. Dispose of contents/container in accordance with national regulations.

## SECTION 14: Transport information

### 14.1. UN number

<b>UN No. (ADR/RID)</b>	1950
<b>UN No. (IMDG)</b>	1950
<b>UN No. (ICAO)</b>	1950
<b>UN No. (ADN)</b>	1950

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** AEROSOLS

## TENSORGRIP H50 SPRAY ADHESIVE AEROSOL

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class 2.1

ADR/RID classification code 5F

ADR/RID label 2.1

IMDG class 2.1

ICAO class/division 2.1

ADN class 2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS F-D, S-U

ADR transport category 2

Tunnel restriction code (D)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: Regulatory information

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

**National regulations** EH40/2005 Workplace exposure limits.  
The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).

**EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).  
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).

## TENSORGRIP H50 SPRAY ADHESIVE AEROSOL

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	ATE: Acute Toxicity Estimate.
	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
	IATA: International Air Transport Association.
	ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
	IMDG: International Maritime Dangerous Goods.
	Kow: Octanol-water partition coefficient.
	LC <sub>50</sub> : Lethal Concentration to 50 % of a test population.
	LD <sub>50</sub> : Lethal Dose to 50% of a test population (Median Lethal Dose).
	PBT: Persistent, Bioaccumulative and Toxic substance.
	RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
	vPvB: Very Persistent and Very Bioaccumulative.
	MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
	EC <sub>50</sub> : 50% of maximal Effective Concentration.
<b>Classification abbreviations and acronyms</b>	Aerosol = Aerosol
	Skin Irrit. = Skin irritation
	STOT SE = Specific target organ toxicity-single exposure
	Aquatic Chronic = Hazardous to the aquatic environment (chronic)
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Aerosol 1 - H222, H229: Expert judgement. Skin Irrit. 2 - H315, STOT SE 3 - H336, Aquatic Chronic 2 - H411: Calculation method.
<b>Revision date</b>	22/11/2017
<b>Revision</b>	10
<b>Supersedes date</b>	02/08/2017
<b>SDS number</b>	20307
<b>Hazard statements in full</b>	H220 Extremely flammable gas.
	H222 Extremely flammable aerosol.
	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.
	H315 Causes skin irritation.
	H319 Causes serious eye irritation.
	H336 May cause drowsiness or dizziness.
	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.