



SAFETY DATA SHEET

TENSORGRIP L71 SPRAY ADHESIVE CANISTER

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 L71 SPRAY ADHESIVE CANISTER

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 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335, H336 STOT RE 2 - H373

Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word

Danger

SENSORGRIP L71 SPRAY ADHESIVE CANISTER

Hazard statements	<p>H222 Extremely flammable aerosol.</p> <p>H229 Pressurised container: may burst if heated</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H351 Suspected of causing cancer.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p>
Additional information	For professional users only.
Precautionary statements	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P211 Do not spray on an open flame or other ignition source.</p> <p>P251 Do not pierce or burn, even after use.</p> <p>P260 Do not breathe spray.</p> <p>P261 Avoid breathing spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P284 [In case of inadequate ventilation] wear respiratory protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/ attention.</p> <p>P312 Call a POISON CENTER/ doctor if you feel unwell.</p> <p>P314 Get medical advice/ attention if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
Contains	Dichloromethane, Formaldehyde, oligomeric reaction products with aniline and phosgene, Ethyl acetate

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

SENSORGRIP L71 SPRAY ADHESIVE CANISTER

Dimethyl ether 30-60%		
CAS number: 115-10-6	EC number: 204-065-8	REACH registration number: 01-2119472128-37-XXXX
Classification Flam. Gas 1 - H220 Press. Gas, Liquefied - H280		
Dichloromethane 30-60%		
CAS number: 75-09-2	EC number: 200-838-9	REACH registration number: 01-2119480404-41-XXXX
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Carc. 2 - H351 STOT SE 3 - H336		
Formaldehyde, oligomeric reaction products with aniline and phosgene 10-30%		
CAS number: 32055-14-4	EC number: 500-079-6	REACH registration number: 01-2119457024-46-XXXX
Classification Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373		
Ethyl acetate 5-10%		
CAS number: 141-78-6	EC number: 205-500-4	REACH registration number: 01-2119475103-46-XXXX
Classification 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****General information**

If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.

SENSORGRIP L71 SPRAY ADHESIVE CANISTER

Inhalation	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.
Ingestion	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.
Skin contact	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.
Eye contact	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

General information	Prolonged or repeated exposure may cause the following adverse effects: May cause cancer. May cause damage to organs .
Inhalation	Coughing, chest tightness, feeling of chest pressure. May cause sensitisation or allergic reactions in sensitive individuals. Vapours may cause drowsiness and dizziness.
Ingestion	May cause chemical burns in mouth and throat.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	May cause severe eye irritation.

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

Notes for the doctor	If adhesive bonding occurs, do not force eyelids apart. Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
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. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure build-up.
Hazardous combustion products	Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrogen chloride (HCl).

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.
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TENSORGRIP L71 SPRAY ADHESIVE CANISTER

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 waste via a licensed waste disposal contractor. 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 inhalation of vapours. Avoid contact with skin and eyes. 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

Storage precautions Keep away from heat, sparks and open flame. Keep container tightly closed. Store in a cool and well-ventilated place. Keep locked up. 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

Long-term exposure limit (8-hour TWA): 200

Short-term exposure limit (15-minute): 400

Dimethyl ether

Long-term exposure limit (8-hour TWA): WEL 400 ppm 766 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 958 mg/m³

Dichloromethane

TENSORGRIP L71 SPRAY ADHESIVE CANISTER

Long-term exposure limit (8-hour TWA): WEL 100 ppm 350 mg/m³

Short-term exposure limit (15-minute): WEL 300 ppm 1060 mg/m³

Sk

Formaldehyde, oligomeric reaction products with aniline and phosgene

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m³(Sen)

Short-term exposure limit (15-minute): WEL 0.07 mg/m³(Sen)

Ethyl acetate

Long-term exposure limit (8-hour TWA): WEL 200 ppm

Short-term exposure limit (15-minute): WEL 400 ppm

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

Dimethyl ether (CAS: 115-10-6)

DNEL	Workers - Inhalation; Long term systemic effects: 1894 mg/m ³ General population - Inhalation; Long term systemic effects: 471 mg/m ³
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

Dichloromethane (CAS: 75-09-2)

DNEL	Workers - Inhalation; Long term systemic effects: 353 mg/m ³ Workers - Inhalation; Short term systemic effects: 706 mg/m ³ Workers - Dermal; Long term systemic effects: 12 mg/kg/day General population - Inhalation; Long term systemic effects: 88.3 mg/m ³ General population - Inhalation; Short term systemic effects: 353 mg/m ³ General population - Dermal; Long term systemic effects: 5.82 mg/kg/day General population - Oral; Long term systemic effects: 0.06 mg/kg/day
PNEC	- Fresh water; 0.31 mg/l - Marine water; 0.031 mg/l - Intermittent release; 0.27 mg/l - STP; 26 mg/l - Sediment (Freshwater); 2.57 mg/kg - Sediment (Marinewater); 0.26 mg/kg - Soil; 0.33 mg/kg

Formaldehyde, oligomeric reaction products with aniline and phosgene (CAS: 32055-14-4)

DNEL	Workers - Inhalation; Long term local effects: 0.05 mg/m ³ Workers - Inhalation; Short term local effects: 0.1 mg/m ³ General population - Inhalation; Long term systemic effects: 0.025 mg/m ³ General population - Inhalation; Short term local effects: 0.05 mg/m ³
PNEC	- Fresh water; 1 mg/l - Marine water; 0.1 mg/l - Intermittent release; 10 mg/l - STP; 1 mg/l - Soil; 1 mg/kg

SENSORGRIP L71 SPRAY ADHESIVE CANISTER

Ethyl acetate (CAS: 141-78-6)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 734 mg/m³</p> <p>Workers - Inhalation; Short term systemic effects: 1468 mg/m³</p> <p>Workers - Inhalation; Long term local effects: 734 mg/m³</p> <p>Workers - Inhalation; Short term local effects: 1468 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 63 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 367 mg/m³</p> <p>General population - Inhalation; Short term systemic effects: 734 mg/m³</p> <p>General population - Inhalation; Long term local effects: 367 mg/m³</p> <p>General population - Inhalation; Short term local effects: 734 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 37 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 4.5 mg/kg/day</p>
PNEC	<p>- Fresh water; 0.24 mg/l</p> <p>- Marine water; 0.024 mg/l</p> <p>- Intermittent release; 1.65 mg/l</p> <p>- STP; 650 mg/l</p> <p>- Sediment (Freshwater); 1.15 mg/kg</p> <p>- Sediment (Marinewater); 0.115 mg/kg</p> <p>- Soil; 0.148 mg/kg</p>

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

Eye/face protection

Wear chemical splash goggles. 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.

TENSORGRIP L71 SPRAY ADHESIVE CANISTER

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.
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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.
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	<-40°C
Evaporation rate	Not available.
Evaporation factor	Not available.
Flammability (solid, gas)	Extremely flammable aerosol.
Upper/lower flammability or explosive limits	: 1.8
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Bulk density	Not available.
Solubility(ies)	Not available.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Volatile organic compound	This product contains a maximum VOC content of 225 g/l.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	See the other subsections of this section for further details.
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10.2. Chemical stability

TENSORGRIP L71 SPRAY ADHESIVE CANISTER

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Static electricity and formation of sparks must be prevented.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Acrid smoke or fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No data recorded.

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

ATE inhalation (dusts/mists mg/l) 7.69

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation Sensitising.

Skin sensitisation

Skin sensitisation Sensitising.

Germ cell mutagenicity

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

Carcinogenicity

Carcinogenicity Suspected of causing cancer.

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 - H335 May cause respiratory irritation.

TENSORGRIP L71 SPRAY ADHESIVE CANISTER

Target organs Respiratory system, lungs

Specific target organ toxicity - repeated exposure

STOT - repeated exposure STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.

General information Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation Coughing, chest tightness, feeling of chest pressure. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Ingestion May cause discomfort if swallowed.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Acute and chronic health hazards Suspected of causing cancer.

Toxicological information on ingredients.

Dimethyl ether

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ 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

Dichloromethane

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ : > 2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ : > 2000 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ 49000 mg/m³, Inhalation, Mouse

TENSORGRIP L71 SPRAY ADHESIVE CANISTER

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit Irritating.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity LOAEC 2000 ppm, Inhalation, Mouse

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

Reproductive toxicity

Reproductive toxicity - fertility Two-generation study - NOAEC \geq 1500 ppm, Inhalation, Rat P, F1

Reproductive toxicity - development Developmental toxicity: - LOAEC: 4500 ppm, Inhalation, Rat

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 6 mg/kg/day, Oral, Rat

Formaldehyde, oligomeric reaction products with aniline and phosgene

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ : > 2000 mg/kg, Oral, Rat Read-across data.

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ : > 9400 mg/kg, Dermal, Rabbit Read-across data.

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 0.31

Species Rat

ATE inhalation (dusts/mists mg/l) 1.5

Skin corrosion/irritation

Animal data Dose: 0.5 ml, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2). Oedema score: Very slight oedema - barely perceptible (1). Read-across data. Irritating.

Respiratory sensitisation

Respiratory sensitisation Rat: Sensitising. Read-across data.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. Read-across data.

Genotoxicity - in vivo Chromosome aberration: Negative. Read-across data.

TENSORGRIP L71 SPRAY ADHESIVE CANISTER

Carcinogenicity

Carcinogenicity NOAEC 1 mg/m³, Inhalation, Rat Read-across data.

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - development Developmental toxicity: - NOAEC: 4 mg/m³, Inhalation, Rat Read-across data.

Specific target organ toxicity - single exposure

STOT - single exposure STOT SE 3 - H335 May cause respiratory irritation.

Target organs Respiratory system, lungs

Specific target organ toxicity - repeated exposure

STOT - repeated exposure STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.

Ethyl acetate

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ : > 20000 mg/kg, Dermal, Rabbit

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 ml, 24 - 72 hours, Rabbit Not irritating.

Skin sensitisation

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

Germ cell mutagenicity

Genotoxicity - in vitro Ames test: Negative.

Genotoxicity - in vivo Chromosome aberration: Negative.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 900 mg/kg/day, Oral, Rat

SECTION 12: Ecological Information

Ecotoxicity The product is not expected to be toxic to aquatic organisms. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity No data available.

Ecological information on ingredients.

Dimethyl ether

Acute toxicity - fish LC₅₀, 96 hours: > 4100 mg/l, Poecilia reticulata (Guppy)
NOEC, 96 hours: ≥ 4100 mg/l, Poecilia reticulata (Guppy)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 4400 mg/l, Daphnia magna
NOEC, 48 hours: ≥ 4400 mg/l, Daphnia magna

Dichloromethane

TENSORGRIP L71 SPRAY ADHESIVE CANISTER

Acute toxicity - fish	LC ₅₀ , 96 hours: 193 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	LC ₅₀ , 48 hours: 27 mg/l, Daphnia magna
Acute toxicity - microorganisms	EC ₅₀ , 40 minutes: 2590 mg/l, Activated sludge
Chronic toxicity - fish early life stage	LC ₅₀ , 8 days: 471 mg/l, Pimephales promelas (Fat-head Minnow) NOEC, 8 days: 357 mg/l, Pimephales promelas (Fat-head Minnow) NOEC, 28 days: 142 mg/l, Pimephales promelas (Fat-head Minnow)

Formaldehyde, oligomeric reaction products with aniline and phosgene

Acute toxicity - fish	LC ₅₀ , 96 hours: > 1000 mg/l, Brachydanio rerio (Zebra Fish) Read-across data.
Acute toxicity - aquatic invertebrates	EC ₅₀ , 24 hours: 129.7 mg/l, Daphnia magna Read-across data.
Acute toxicity - aquatic plants	EC ₅₀ , 72 days: > 1640 mg/l, Desmodesmus subspicatus Read-across data.
Acute toxicity - microorganisms	EC ₅₀ , 72 hours: > 100 mg/l, Activated sludge Read-across data.
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: ≥ 10 mg/l, Daphnia magna Read-across data.

Ethyl acetate

Acute toxicity - fish	LC ₅₀ , 96 hours: 230 mg/l, Pimephales promelas (Fat-head Minnow) EC ₅₀ , 96 hours: 220 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic plants	NOEC, 72 hours: > 100 mg/l, Desmodesmus subspicatus
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 2.4 mg/l, Daphnia magna EC ₅₀ , 24 hours: 2306 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Ecological information on ingredients.

Dimethyl ether

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

Biodegradation	Water - Degradation (68%): 28 days
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Formaldehyde, oligomeric reaction products with aniline and phosgene

Phototransformation	Air - DT ₅₀ : 0.92 days Calculation method.
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TENSORGRIP L71 SPRAY ADHESIVE CANISTER

Biodegradation Water - Degradation (0%): 28 days
Not readily biodegradable.
Read-across data.

Ethyl acetate

Biodegradation Water - Degradation (69%): 15 - 20 days
The substance is readily biodegradable.

Chemical oxygen demand 1.69 g O₂/g substance

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

Dichloromethane

Bioaccumulative potential BCF: 2.0 - 5.4, Cyprinus carpio (Common carp)

Partition coefficient log Pow: 1.25

Formaldehyde, oligomeric reaction products with aniline and phosgene

Partition coefficient log Pow: 4.51

Ethyl acetate

Bioaccumulative potential BCF: 30, Leuciscus idus (Golden orfe)

Partition coefficient log Pow: 0.68

12.4. Mobility in soil

Mobility Volatile liquid.

Ecological information on ingredients.

Dimethyl ether

Mobility The product is soluble in water.

Dichloromethane

Mobility The product is soluble in water.

Henry's law constant 0.002 atm m³/mol @ 25°C

Formaldehyde, oligomeric reaction products with aniline and phosgene

Mobility The product is partly soluble in water and may spread in the aquatic environment.

Ethyl acetate

TENSORGRIP L71 SPRAY ADHESIVE CANISTER

Mobility The product is soluble in water.

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.

Dichloromethane

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

Formaldehyde, oligomeric reaction products with aniline and phosgene

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

Ethyl acetate

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

General information Empty containers must not be punctured or incinerated because of the risk of an explosion.

Disposal methods Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3501

UN No. (IMDG) 3501

UN No. (ICAO) 3501

UN No. (ADN) 3501

14.2. UN proper shipping name

Proper shipping name (ADR/RID) CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETYHL ETHER)

Proper shipping name (IMDG) CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETYHL ETHER)

Proper shipping name (ICAO) CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETYHL ETHER)

Proper shipping name (ADN) CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETYHL ETHER)

TENSORGRIP L71 SPRAY ADHESIVE CANISTER

14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	8F
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

No.

14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Emergency Action Code	2YE
Hazard Identification Number (ADR/RID)	23
Tunnel restriction code	(B/D)

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

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

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).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

TENSORGRIP L71 SPRAY ADHESIVE CANISTER

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>LC₅₀: Lethal Concentration to 50 % of a test population.</p> <p>LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>Kow: Octanol-water partition coefficient.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p> <p>EC₅₀: 50% of maximal Effective Concentration.</p>
Classification abbreviations and acronyms	<p>Aerosol = Aerosol</p> <p>Eye Irrit. = Eye irritation</p> <p>Skin Irrit. = Skin irritation</p> <p>Skin Sens. = Skin sensitisation</p> <p>Resp. Sens. = Respiratory sensitisation</p> <p>STOT SE = Specific target organ toxicity-single exposure</p> <p>STOT RE = Specific target organ toxicity-repeated exposure</p> <p>Carc. = Carcinogenicity</p>
Classification procedures according to Regulation (EC) 1272/2008	<p>Aerosol 1 - H222, H229: Expert judgement. Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Resp. Sens. 1 - H334, Skin Sens. 1 - H317, Carc. 2 - H351, STOT SE 3 - H335, H336, STOT RE 2 - H373: Calculation method.</p>
Revision date	01/07/2016
Revision	9
Supersedes date	23/02/2016
Hazard statements in full	<p>H220 Extremely flammable gas.</p> <p>H222 Extremely flammable aerosol.</p> <p>H225 Highly flammable liquid and vapour.</p> <p>H229 Pressurised container: may burst if heated</p> <p>H280 Contains gas under pressure; may explode if heated.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H351 Suspected of causing cancer.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> <p>H373 May cause damage to organs (Respiratory system, lungs) through prolonged or repeated exposure if inhaled.</p>

TENSORGRIP L71 SPRAY ADHESIVE CANISTER

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