

SAFETY DATA SHEET

TG.H50.22 TensorGrip H50 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.H50.22 TensorGrip H50 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

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

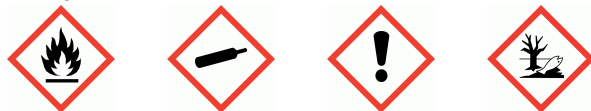
Physical hazards Aerosol 1 - H222, H229 Press. Gas, Compressed - H280

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

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.
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.

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Precautionary statements

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. - No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Pressurized container: 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 soap and water.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P312 Call a POISON CENTER or doctor/ physician 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 before reuse.
 P391 Collect spillage.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P410+P403 Protect from sunlight. Store in a well-ventilated place.
 P412 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, <5% n-hexane, Acetone, n-Hexane

Other hazards

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

SECTION 3: Composition and information on ingredients

Mixtures

Dimethyl ether CAS number: 115-10-6	30-60%
Classification Flam. Gas 1 - H220 Press. Gas, Liquefied - H280	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS number: —	30-60%
Classification Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	

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Acetone		1-5%
CAS number: 67-64-1		
Classification		
Flam. Liq. 2 - H225		
Eye Irrit. 2A - H319		
STOT SE 3 - H336		
n-Hexane		1-5%
CAS number: 110-54-3		
Classification		
Flam. Liq. 2 - H225		
Skin Irrit. 2 - H315		
Repr. 2 - H361f		
STOT SE 3 - H336		
STOT RE 2 - H373		
Asp. Tox. 1 - H304		
Aquatic Chronic 2 - H411		
Cyclohexane		<1%
CAS number: 110-82-7		
M factor (Acute) = 1		
M factor (Chronic) = 1		
Classification		
Flam. Liq. 2 - H225		
Skin Irrit. 2 - H315		
STOT SE 3 - H336		
Asp. Tox. 1 - H304		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		

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

SECTION 4: First aid measures

Description of first aid measures

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

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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.

Most important symptoms and effects, both acute and delayed

Inhalation	Coughing, chest tightness, feeling of chest pressure. Irritation of nose, throat and airway. Vapours may cause drowsiness and dizziness.
Ingestion	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.
Skin contact	Bonds skin and eyes in seconds. Causes skin irritation.
Eye contact	Bonds skin and eyes in seconds. Causes serious eye irritation. Severe irritation, burning and tearing.

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

Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

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.

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 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.

Hazchem Code	2YE
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SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

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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.

Environmental precautions

Environmental precautions Avoid discharge into drains and the aquatic environment.

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.

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, including how the chemical may be safely used

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.

Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed, in a cool, well ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight.

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

Dimethyl ether

Long-term exposure limit (8-hour TWA): 400 ppm 760 mg/m³

Short-term exposure limit (15-minute): 500 ppm 950 mg/m³

Acetone

Long-term exposure limit (8-hour TWA): 500 ppm 1185 mg/m³

Short-term exposure limit (15-minute): 1000 ppm 2375 mg/m³

n-Hexane

Long-term exposure limit (8-hour TWA): 20 ppm 72 mg/m³

Cyclohexane

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

Short-term exposure limit (15-minute): 300 ppm 1050 mg/m³

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 Australia/New Zealand Standard AS/NZS 1337.

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 Australia/New Zealand Standard AS/NZS 2161. 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. 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

Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Not available.
Odour	Characteristic.
Odour threshold	Not available.
pH	Not available.
Melting point	Not available.
Initial boiling point and range	55°C @ 1013 hPa
Flash point	-29°C

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Evaporation factor	Not available.
Flammability (solid, gas)	Extremely flammable aerosol.
Flammability Limit - Lower(%)	Lower flammable/explosive limit: 1.0% Upper flammable/explosive limit: 13%
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0.74
Bulk density	Not available.
Solubility Value (g/100g H₂O 20°C)	Insoluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	275°C
Decomposition Temperature	Not available.
Viscosity	Not determined.
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.
Other information	None.

SECTION 10: Stability and reactivity

Reactivity	See the other subsections of this section for further details.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
Conditions to avoid	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.
Materials to avoid	Strong oxidising agents. Strong acids.
Hazardous decomposition products	None at ambient temperatures. Thermal decomposition or combustion products may include the following substances: Very toxic gases or vapours.

SECTION 11: Toxicological information

Information on toxicological effects

Toxicological effects	No data recorded.
<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.

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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.

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.

SECTION 12: Ecological Information

Toxicity Toxic to aquatic life with long lasting effects.

Acute toxicity - fish LC₅₀, 96 hours: >1-10 mg/l, Algae

Acute toxicity - microorganisms LC₅₀, 96 hours: >1-10 mg/l, Algae

Persistence and degradability

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

Bioaccumulative potential

Bioaccumulative Potential No data available on bioaccumulation.

Partition coefficient Not available.

Mobility in soil

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

Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

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. Collect and place in suitable waste disposal containers and seal securely. Dispose of contents/container in accordance with national regulations.

SECTION 14: Transport information

UN number

UN No. (ADG) 3501

UN No. (IMDG) 3501

UN No. (ICAO) 3501

UN proper shipping name

Proper shipping name (ADG) CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETHYL ETHER)

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

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

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

Not applicable.

Environmental hazards

Environmentally hazardous substance/marine pollutant



Special precautions for user

EmS F-D, S-U

Hazchem Code 2YE

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SECTION 15: Regulatory information

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).

SECTION 16: Any other relevant information

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

Revision date 3/04/2017

Revision 4

Supersedes date 1/07/2016

SDS No. 21629

Hazard statements in full H220 Extremely flammable gas.
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.
H361f CLP only - Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
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.