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Product

Product nameCav-GripProduct codenot assignedHSNO approvalHSR002515

Approval description Aerosols (Flammable) Group Standard 2017

UN number 350 DG class 2.1

Proper Shipping Name CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Dimethyl ether,

nitrogen)

Packaging group NA Hazchem code NA

Uses Solvent-based adhesive

Company Details

Company Viking Roofspec

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2. Hazard Identification

Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002515, Aerosols (Flammable) Group Standard 2017). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Minimum Degrees of Hazard) Notice 2017.

Classes Hazard Statements

2.1.2A
6.1E (respiratory irritation)
6.3A
6.4A
H222 - Extremely flammable aerosol.
H335 - May cause respiratory irritation.
H315 - Causes skin irritation.
H320 - Causes eye irritation.

6.9B (narcotic) H336 - May cause drowsiness or dizziness.

6.9A H372 - Causes damage to organs through prolonged or repeated exposure.

9.1C H412 - Harmful to aquatic life with long lasting effects.

SYMBOLS

DANGER





Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

P103 - Read label before use.

P210 - Keep away from ignition sources. 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.

P260 - Do not breathe vapours/spray.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

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.

P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

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

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

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

P362 - Take off contaminated clothing and wash before re-use.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P308+P313 - IF exposed or concerned: Get medical advice/ attention.

P410 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

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

P405 - Store locked up.

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)	
methyl acetate	79-20-9	35-60%	
hexane	110-54-3	12-25%	
carbon dioxide	124-38-9	1-7%	
dimethyl ether	115-10-6	1-7%	

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid

Ready access to running water is required. Accessible eyewash is required.

facilities

Exposure

Swallowed IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT

induce vomiting.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin contact IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/ attention. Take off contaminated clothing and wash before re-use.

Inhaled IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

Advice to Doctor

Treat symptomatically

5. Firefighting Measures

Fire and explosion hazards: This product is an aerosol that releases flammable vapours. This product has the

potential to cause fire or to create an additional hazard during fire. Buildup of explosive mixtues possible. Container may rupture/explode in a fire. Remove undamaged cans if safe to do so. Leaking or burning cans should be extinguished only when absolutely necessary. Spontaneous or explosive reignition may occur. Extinguish fire in surrounding

area.
Carbon dioxide, extinguishing powder, foam, fog sprays, water jets.

Suitable extinguishing

substances:

Unsuitable extinguishing

substances:

Unknown.

Products of combustion: Carbon dioxide, and if combustion is incomplete, carbon monoxide, oxides of nitrogen

and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits

and other low-lying spaces, forming potentially explosive mixtures.

Protective equipment: Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat

and eye protection.

Hazchem code: Not applicable for Aerosol. Liquid has Hazchem code: 3YE.

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Product Name: Cav-Grip



6. Accidental Release Measures

Containment If greater than 3000L is stored, secondary containment and emergency plans to manage

any potential spills must be in place. In all cases design storage to prevent discharge to

storm water.

Emergency procedures In the event of spillage alert the fire brigade to location and give brief description of

hazard. Stop the source of the leak, if safe to do so. Shut off all possible sources of ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If

this occurs contact your regional council immediately).

Clean-up method Collect undamaged cans and recycle. Collect damaged cansand seal in properly labelled

containers or drums for disposal.

DisposalCollect recoverable material into labelled containers for recycling or salvage. This

material may be suitable for approved landfill. Dispose of only in accord with all

regulations.

Precautions Wear protective equipment to prevent skin and eye contamination and the inhalation of

vapours. Work up wind or increase ventilation. Be aware of fire risk - avoid sources of

ignition.

7. Storage & Handling

Storage Avoid storage of harmful substances with food.

Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Keep out of direct sunlight. Avoid contact with incompatible substances as listed in Section 10.

Keep out of reach of children.

Handling Keep exposure to a minimum, and minimise the quantities kept in work areas. See

section 8 with regard to personal protective equipment requirements. Avoid skin and eye

contact and inhalation of vapour, mist or aerosols.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Exposure Stds IngredientWES-TWAmethyl acetate200ppm, 606mg/m³hexane20ppm, 72mg/m³carbon dioxide5000ppm, 9000mg/m³dimethyl ether400ppm, 766mg/m³

WES-STEL
250ppm, 757mg/m³
data unavailable
30000ppm 54000mg/m³
500ppm, 958mg/m³

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment

Eyes



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible. Select eye protection in accordance with AS/NZS 1337.

Skin



Avoid any skin contact. Wear overalls, rubber boots and impervious gloves. Nitrile, teflon or PVA gloves are recommended. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use. Protective clothing must comply with AS 2919, AS3765.1 or AS3765.2. PVC or rubber boots must comply with AS/NZS 2210.2 and selected and maintained in

^{*} These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.



Respiratory



accordance with AS/NS2210.1. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking.

A respirator when airborne concentrations approach the WES (section 8). Respirators must have filters appropriate to the duty and comply with AS/NZS1716 and selected, used and maintained in accordance with AS/NS 1715. Use a respirator with an organic vapour cartridge. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Fit testing and clear guidelines and training for use and maintenance of PPE are necessary.

WES Additional Information

Not applicable

Physical & Chemical Properties

Appearance aerosol

Odour Not determined Not available pН . Vapour pressure not available **Viscosity** no data -196°C **Boiling point** Volatile materials 0.6608 Freezing / melting point no data

Solubility insoluble in water Specific gravity / density 0.881 g/mL Flash point -41°C Danger of explosion no data **Auto-ignition temperature** no data **Upper & lower flammable limits** no data Corrosiveness non corrosive

10 Stability & Reactivity

Stability Stable

Conditions to be avoided Flammable substance. Keep away from sources of ignition at all times. Containers should

be kept closed in order to avoid contamination.

Incompatible groups Oxidisers, strong acids, bases.

none known

Substance Specific Incompatibility

products

Hazardous decomposition Oxides of carbon

Hazardous reactions none known

Toxicological Information 11.

IF SWALLOWED: can result in nausea, vomiting and central nervous system depression. If the victim is uncoordinated there is greater likelihood of vomit entering the lungs and causing subsequent acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death.

IF IN EYES: may cause eye irritation.

IF ON SKIN: may cause skin irritation. Repeated or prolonged contact may cause drying out of the skin resulting in nonallergic dermatitis. This product can be absorbed through the skin.

INHALED: high concentrations of vapours may cause dizziness and drowsiness.

CHRONIC TOXICITY: Hexane vapours may cause reversible damage to kidneys and liver. Prolonged exposure can cause nerve damage (CNS).

Supporting Data

Acute Oral Using LD₅₀'s for ingredients, the calculated LD₅₀ (oral, rat) for the mixture is >5,000

mg/kg. Data considered includes: methyl acetate 3705mg/kg (rabbit), hexane

25000mg/kg (rat).

Dermal No evidence of dermal toxicity.

Using LC₅₀'s for ingredients, the calculated LC₅₀ (inhalation, rat) for the mixture is >5,000Inhaled

ppm. Data considered includes: hexane 48000ppm/4H (rat).

The mixture is considered to be an eye irritant, because some of the ingredients (methyl Eye

acetate, dimethyl ether, hexane) present are considered eye irritants in more

concentrated form.





Skin The mixture is considered to be a skin irritant, because some of the ingredients (methyl

acetate, hexane) present are considered skin irritants in more concentrated form.

Chronic Sensitisation No ingredient present at concentrations > 0.1% is considered a sensitizer.

MutagenicityNo ingredient present at concentrations > 0.1% is considered a mutagen.CarcinogenicityNo ingredient present at concentrations > 0.1% is considered a carcinogen.Reproductive /No ingredient present at concentrations > 0.1% is considered a reproductive or

Developmental developmental toxicant or have any effects on or via lactation.

Systemic The mixture is considered to be a target organ toxicant. Hexane is known to affect the

peripheral nervous system. Vapours may cause dizziness and drowsiness.

Aggravation of None known.

existing conditions

12. Ecological Data

Summary

This mixture may be harmful towards aquatic organisms with long lasting effects.

Supporting Data

Aquatic Using EC₅₀'s for ingredients, the calculated EC₅₀ for the mixture is between 10 mg/L and

100 mg/L. Data considered includes: hexane 2.50mg/L (96hr, Fathead minnow), 3.9mg/L

)48hr, Daphnia magna).

Bioaccumulation Hexane may be bioaccumulative.

Degradability No data

Soil No evidence of soil toxicity.

Terrestrial vertebrateThis mixture is not classed as 9.3. See acute toxicity. **Terrestrial invertebrate**No evidence of toxicity towards terrestrial invertebrates.

Biocidal no data

13. Disposal Considerations

Restrictions There are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

Disposal methodDisposal of this product must comply with the Hazardous Substances (Disposal) Notice

2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore

rendered non-hazardous before discharge to the environment.

Contaminated packaging Disposal of contaminated packaging must comply with the Hazardous Substances

(Disposal) Notice 2017 clause 12. Ensure that the package is renedered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible

reuse or recycle packaging.

14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for

transport.

UN number: 3501 Proper shipping name: CHEMICAL UNDER PRESSURE,

FLAMMABLE, N.O.S. (Dimethyl

ether, nitrogen)

Class(es)2.1Packing group:NAPrecautions:Flammable aerosolHazchem code:NA





15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002515, Aerosols (Flammable) Group Standard 2017.

All Ingredients appear on the NZIoC.

Specific Controls

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing any quantity.

Inventory An inventory of all hazardous substances must be prepared and maintained.

Packaging All hazardous substances should be appropriately packaged including substance

manufactured for own use or have been supplied

Labelling Must comply with the Hazardous Substances (Labelling) Notice 2017.

Emergency plan Required if > 3000L is stored.

Certified handler Not required.

Tracking Not required.

Bunding & secondary containment Required if > 3000L is stored.

Signage Required if > 3000L is stored.

Location compliance certificate Required if > 3000L is stored.

Flammable zone Must be established if > 3000L is stored.

Fire extinguisher If > 3000L present.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

16. Other Information

Abbreviations

Approval Code Approval HSR002515, Aerosols (Flammable) Group Standard 2017 Controls, EPA.

www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

Ceiling Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical

agent to which a worker may be exposed at any time.

Controls Matrix List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).

EC50 Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

EPA Environmental Protection Authority (New Zealand)

HAZCHEM Code Emergency action code of numbers and letters that provide information to emergency

services, especially fire fighters

HSNO Hazardous Substances and New Organisms (Act and Regulations)

IARC International Agency for Research on Cancer LeL/UEL Lower Explosive Limit/ Upper Explosive Limit

LD₅₀ Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

LC₅₀ Lethal Concentration 50% − concentration in air which is fatal to 50% of a test population

(usually rats)

MSDS (SDS) Material Safety Data Sheet (or Safety Data Sheet)

NZIoC New Zealand Inventory of Chemicals

PES Prescribed Exposure Standard means a WES or a biological exposure standard that is

prescribed in a regulation, a safe work instrument or an approval under HSNO (including

group standards).

STEL Short Term Exposure Limit - The maximum airborne concentration of a chemical or

biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

TWA Time Weighted Average – generally referred to WES averaged over typical work day

(usually 8 hours)

UN Number United Nations Number

WES Workplace Exposure Standard - The airborne concentration of a biological or chemical

agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring

using procedures that gather air samples in the worker's breathing zone.

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References

Data

Unless otherwise stated comes from the EPA HSNO chemical classification information

database (CCID).

Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)

Regulations 2017, www.legislation.govt.nz

WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available

on their web site - www.worksafe.govt.nz.

Other References: Suppliers SDS, EU ECHA, ingredients SDS's, ChemIDplus

Review

Date Reason for review

March 2019 Not applicable – new SDS

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 9 940 30 80.

