

. Identification of Substance & Company

Product

Product nameSilcoat Walk PadOther namesGacoFlex Walk Pad

Product code VSC400 HSNO approval HSR002657

Approval description Surface Coatings and Colourants (Combustible) Group Standard 2017

UN number NA
DG class NA
Proper Shipping Name NA
Packaging group NA
Hazchem code NA

Uses Architectural Coating and Waterproofing

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 HSR002657, Surface Coatings and Colourants (Combustible) 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

3.1D H227 - Combustible liquid.

6.5B
6.4A
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.

6.8B H361 - Suspected of damaging fertility or the unborn child.

6.9B H371 - May cause damage to organs through prolonged or repeated exposure.

9.4A H441 - Very toxic to terrestrial invertebrates.

SYMBOLS

WARNING



Other Classifications

This substance does contain silica (quartz) which is classed as a carcinogen (6.7A) if in an inhalable form (e.g. fine dust). Titanium dioxide as ultrafine to fine particle sizes: 50 nm to 1.5 μm has been found to be a suspected carcinogen in animal studies (IARC 2B).

This substance is a liquid and is not considered carcinogenic.

Precautionary Statements

P103 - Read label before use.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe vapours.

P264 - Wash hands thoroughly after handling.

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

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P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

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

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

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

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.

P391 - Collect spillage. P405 - Store locked up.

3. **Composition / Information on Ingredients**

Component	CAS/ Identification	Conc (%)
Dimethylsiloxane, hydroxyl terminated	70131-67-8	30-60%
Nepheline syenite- various grades	37244-86-5	15-40%
Methyl-O,O',O"-butan-2-on-trioximo-silane	22984-54-9	1-5%
Octamethylcyclotetrasiloxane	556-67-2	1-5%
3-Aminopropyltriethoxysilane	919-30-2	0.1-1%

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

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). IF exposed or concerned: Get medical advice/ attention.

Recommended first aid

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

facilities

Exposure

Swallowed Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor.

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 or rash occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Inhaled Generally, inhalation of fumes is unlikely to result in adverse health effects. If coughing,

dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for

transport and contact a doctor.

Advice to Doctor

Treat symptomatically

Firefighting Measures

Fire and explosion hazards: This product is:a combustible liquid, flashpoint 76°C. This product has the potential to

cause fire or to create an additional hazard during fire.

Suitable extinguishing

substances:

Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam.

Unsuitable extinguishing Unknown.

substances:

Products of combustion:

Carbon dioxide, and if combustion is incomplete, carbon monoxide 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: NA

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6. Accidental Release Measures

Containment If greater than 1000L 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. Do not use sawdust. Prevent by whatever means possible any spillage from entering drains, sewers,

or water courses. (If this occurs contact your regional council immediately).

clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or

waterways has occurred advise local emergency services.

Disposal Mop up and collect recoverable material into labelled containers for recycling or salvage.

Recycle containers wherever possible. 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.

7. Storage & Handling

Storage Avoid storage of harmful substances with food. Store out of reach of children.

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

Section 10.

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. Launder contaminated clothing before

reuse. Wash hands before eating, drinking or smoking.

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 Ingredient WES-TWA* WES-STEL

Exposure Stds No ingredients listed

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

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.

Skin Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious

gloves. Replace gloves frequently. Gloves should be checked for tears or holes before use. Remove protective clothing and wash exposed areas with soap and water prior to

eating, drinking or smoking. Wash hands after handling.

Respiratory A respirator when airborne concentrations approach the WES (section 8). Use a

respirator with an organic vapour cartridge and a particulate filter. 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.

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WES Additional Information

Not applicable

Physical & Chemical Properties

Appearance viscous vellow liquid Odour sweet mild odour

pН no data Vapour pressure no data

Viscosity 30,000cP @ 25°C

Boiling point no data Volatile materials 50g/L Freezing / melting point no data

Solubility not soluble in water

Specific gravity / density 1.26g/cm3 Flash point 76°C Danger of explosion no data **Auto-ignition temperature** no data **Upper & lower flammable limits** no data Corrosiveness non corrosive

10. Stability & Reactivity

Stability

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Keep from extreme

heat and open flames.

Oxides of carbon.

Incompatible groups Heat, oxidisers **Substance Specific** None known

Incompatibility

Hazardous decomposition

products

. Hazardous reactions None known

Toxicological Information 11.

IF SWALLOWED: may cause gastrointestinal irritation.

IF IN EYES: causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production with marked redness and swelling of the conjunctiva.

IF ON SKIN: may cause mild skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause allergic skin reactions.

IF INHALED: may cause respiratory irritation.

CHRONIC TOXICITY: Prolonged or repeated ingestion exposure may cause blood damage. Exposure is suspected of causing damage to fertility

Supporting Data

Acute Using LD₅₀'s for ingredients, the calculated LD₅₀ (oral, rat) for the mixture is >5,000 Oral mg/kg. Data considered includes: Methyl-O,O',O"-butan-2-on-trioximo-silane 2463

mg/kg (rat), titanium dioxide >20000mg/kg (rat), 3-aminopropyltriethoxysilane 3.65mL/kg/bw (oral, rat), Dimethylsiloxane, hydroxyl terminated: 15400mg/kg (rat), Octamethylcyclotetrasiloxane: 1540mg/kg (rat).

Dermal Using LD₅₀'s for ingredients, the calculated LD₅₀ (dermal, rat) for the mixture is >5000

mg/kg. Data considered includes: Methyl-O,O',O"-butan-2-on-trioximo-silane > 2000

mg/kg bw (rat), titanium dioxide >10000mg/kg (hamster).

Inhaled Using LC50's for ingredients, the estimated LC50 (inhalation, rat) for the mixture is 20mg/L

ppm. Data considered includes: Methyl-O,O',O"-butan-2-on-trioximo-silane 3.43-6.82mg/l

air (4h, rat), titanium dioxide >20000mg/kg (rat), 3-aminopropyltriethoxysilane 3.65mL/kg/bw (oral, rat), Dimethylsiloxane, hydroxyl terminated: 8750mg/m3 (7h, rat),

Octamethylcyclotetrasiloxane: 8.67mg/L (rat).

The mixture is considered to be an eye irritant. Methyl-O,O',O"-butan-2-on-trioximo-silane Eye

and Dimethylsiloxane. hydroxyl terminated are eye irritants.

Skin The mixture is not considered to be a skin irritant.

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Chronic Sensitisation The mixture is considered to be a contact sensitizer. Methyl-O,O',O"-butan-2-on-trioximo-

silane is a skin sensitiser.

Mutagenicity
Carcinogenicity

No ingredient present at concentrations > 0.1% is considered a mutagen.
No ingredient listed is considered a carcinogen.

Reproductive / Developmental Systemic

Octamethylcyclotetrasiloxane is suspected of damaging fertility.

Prolonged or repeated ingestion exposure to Methyl-O,O',O"-butan-2-on-trioximo-silane

may cause blood damage.

Aggravation of existing conditions

None known.

12. Ecological Data

Summary

No evidence of ecotoxicity. In all cases prevent run-off to sewers, drains and waterways.

Supporting Data

Aquatic Using EC₅₀'s for ingredients, the estimated EC₅₀ for the mixture is > 100 mg/L. Data

considered includes: Methyl-O,O',O"-butan-2-on-trioximo-silane >100mg/L.

Bioaccumulation No data **Degradability** No data

Soil No evidence of soil toxicity.

Terrestrial vertebrateThis mixture is not considered ecotoxic towards terrestrial vertebrates.

Terrestrial invertebrate
Dimethylsiloxane, hydroxyl terminated is classed by EPA as 9.4A.

Biocidal no data

Environmental effect levels No EELs are available for this mixture or ingredients

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 packagingDisposal 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

There are no specific restrictions for this product (not a dangerous good).

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:NAHazchem code:NA

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002657, Surface Coatings and Colourants (Combustible) Group Standard 2017. All ingredients appear on the NZIoC.

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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

substances that have been decanted, transferred or manufactured for own use

or have been supplied

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

Emergency plan Required if > 1000L is stored.

Certified handler Not required.

Tracking Not required.

Bunding & secondary containment Required if > 1000L is stored.

Signage Required if > 10000L is stored.

Location compliance certificate Not required. Flammable zone Not required.

Fire extinguisher Required if > 500L is stored.

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 HSR002657, Surface Coatings and Colourants (Combustible) Group Standard

2017 Controls, EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

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).

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).

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

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



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References

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

DateReason for reviewJuly 2018Not 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). Full formulation details were not available. 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.

