

**1. Identification of Substance & Company**

**Product**

<b>Product name</b>	Low-VOC untack
<b>Product code</b>	not assigned
<b>HSNO approval</b>	HSR002515
<b>Approval description</b>	Aerosols (Flammable) Group Standard 2020
<b>UN number</b>	3501
<b>DG class</b>	2.1
<b>Proper Shipping Name</b>	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Acetone, Perchlorobenzotrifluoride)
<b>Packaging group</b>	NA
<b>Hazchem code</b>	2YE
<b>Uses</b>	Adhesive remover/solvent

**Company Details**

<b>Company</b>	<b>Viking Roofspect</b>	
<b>Physical Address</b>	80 Alexander Crescent Otara Auckland New Zealand	PO Box 14 451 Panmure Auckland 1741 New Zealand
<b>Telephone</b>	0800 729 799	
<b>Fax</b>	0800 729 788	
<b>Website</b>	<a href="http://www.vikingroofspect.co.nz">www.vikingroofspect.co.nz</a>	

**Emergency Telephone Number: 0800 764 766**

**2. Hazard Identification**

**NZ Approval**

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002515, Aerosols (Flammable) Group Standard 2020 ). The substance has been classified as hazardous according to the criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

**GHS 7 Classes**

Flammable aerosol category 1  
Eye irritant category 2  
Skin sensitizer category 1  
STOT\* single exposure category 3  
Chronic aquatic category 2

**Hazard Statements**

H222 - Extremely flammable aerosol.  
H280 - Contains gas under pressure; may explode if heated.  
H319 - Causes serious eye irritation.  
H317 - May cause an allergic skin reaction.  
H336 - May cause drowsiness or dizziness.  
H411 - Toxic to aquatic life with long lasting effects.

\*STOT – System target organ toxicity

**SYMBOLS**

**DANGER**



**Other Classifications**

There are no other classifications that are known to apply.

### Precautionary Statements

<b>Prevention</b>	P102 - Keep out of reach of children. 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. P261 - Avoid breathing vapours/spray. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. 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.
<b>Response</b>	P101 - If medical advice is needed, have product container or label at hand. P312 - Call a POISON CENTRE or doctor/physician if you feel unwell. 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. 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. 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. P391 - Collect spillage.
<b>Storage</b>	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.
<b>Disposal</b>	P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

### 3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Acetone	67-64-1	50-75%
4-Chlorobenzotrifluoride	98-56-6	22-40%
D-Limonene	5989-27-5	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 facilities** Ready access to running water is required. Accessible eyewash is required.

#### Exposure

<b>Swallowed</b>	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting.
<b>Eye contact</b>	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.
<b>Skin contact</b>	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.
<b>Inhaled</b>	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

<b>Fire and explosion hazards:</b>	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 mixtures 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.
<b>Suitable extinguishing substances:</b>	Carbon dioxide, extinguishing powder, foam, fog sprays, water jets.
<b>Unsuitable extinguishing substances:</b>	Unknown.
<b>Products of combustion:</b>	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.
<b>Protective equipment:</b>	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
<b>Hazchem code:</b>	Not applicable for Aerosol. Liquid has Hazchem code: 3YE.

### 6. Accidental Release Measures

<b>Containment</b>	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.
<b>Emergency procedures</b>	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).
<b>Clean-up method</b>	Collect undamaged cans and recycle. Collect damaged cans and seal in properly labelled containers or drums for disposal.
<b>Disposal</b>	Collect 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.
<b>Precautions</b>	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

<b>Storage</b>	Keep out of reach of children. Protect from sunlight. Do not expose to temperatures exceeding 50°C. Store in a well ventilated, cool, dry place. Keep away from heat, sparks, and flame. Store locked up.
<b>Handling</b>	Keep out of reach of children. 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/m<sup>3</sup> for respirable particulates and 10mg/m<sup>3</sup> for inhalable particulates when limits have not otherwise been established.

NZ Workplace Exposure Stds	Ingredient	WES-TWA*	WES-STEL
	Acetone (bio)	500ppm, 1185mg/m <sup>3</sup>	1000ppm, 2375 mg/m <sup>3</sup>

#### 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**

**General**

Personal Protective Equipment (PPE) should not be used as the primary means of exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate. Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and where applicable the cleaning of respirators should be undertaken.

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

**Respiratory**



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

**9. Physical & Chemical Properties**

<b>Appearance</b>	thin, water-white liquid
<b>Odour</b>	solvent odour
<b>Odour Threshold</b>	no data
<b>pH</b>	no data
<b>Freezing/melting point</b>	no data
<b>Boiling Point</b>	56.1°C
<b>Flashpoint</b>	-20°C
<b>Flammability</b>	no data
<b>Upper &amp; lower flammable limits</b>	no data
<b>Vapour pressure</b>	no data
<b>Vapour density</b>	no data
<b>Specific gravity/density</b>	0.899 g/mL
<b>Solubility</b>	insoluble in water
<b>Partition coefficient</b>	no data
<b>Auto-ignition temperature</b>	no data
<b>Decomposition temperature</b>	no data
<b>Viscosity</b>	no data
<b>Particle Characteristics</b>	no data

**10. Stability & Reactivity**

<b>Stability</b>	Stable
<b>Conditions to be avoided</b>	Flammable substance. Keep away from sources of ignition at all times. Containers should be kept closed in order to avoid contamination.
<b>Incompatible groups</b>	Oxidisers, strong acids, bases.
<b>Substance Specific Incompatibility</b>	none known
<b>Hazardous decomposition products</b>	Oxides of carbon
<b>Hazardous reactions</b>	none known

## 11. Toxicological Information

### Summary

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 non-allergic dermatitis. Sensitised individuals may experience an allergic skin reaction.

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

### Supporting Data

<b>Acute</b>	<b>Oral</b>	Using LD <sub>50</sub> 's for ingredients, the calculated LD <sub>50</sub> (oral, rat) for the mixture is between 2000 and 5000 mg/kg. Data considered includes: acetone 3000 mg/kg (mouse), 4-Chlorobenzotrifluoride 5546 mg/kg (rat), D-limonene 4400mg/kg (rat).
	<b>Aspiration</b>	This mixture is not considered an aspiration hazard.
	<b>Dermal</b>	Using LD <sub>50</sub> 's for ingredients, the calculated LD <sub>50</sub> (dermal, rat) for the mixture is >5000 mg/kg. Data considered includes: 4-Chlorobenzotrifluoride >3300mg/kg (rabbit).
	<b>Inhaled</b>	Using LC <sub>50</sub> 's for ingredients, the calculated LC <sub>50</sub> (inhalation, rat) for the mixture is >5,000 ppm. Data considered includes: 4-Chlorobenzotrifluoride > 32.03 mg/l (rat).
	<b>Eye</b>	The mixture is considered to be an eye irritant, because some of the ingredients present are considered eye irritants in more concentrated form.
<b>Chronic</b>	<b>Skin</b>	The mixture is considered to be a skin irritant, because some of the ingredients present are considered skin irritants in more concentrated form.
	<b>Sensitisation</b>	The mixture is considered to be a contact sensitizer. D-Limonene is considered a skin sensitizer.
	<b>Mutagenicity</b>	No ingredient present at concentrations > 0.1% is considered a mutagen.
	<b>Carcinogenicity</b>	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	<b>Reproductive / Developmental</b>	No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.
	<b>Systemic</b>	No ingredient present at concentrations > 1% is considered a target organ toxicant. Inhalation of vapours may cause dizziness and drowsiness.
	<b>Aggravation of existing conditions</b>	None known.

## 12. Ecological Data

### Summary

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

### Supporting Data

<b>Aquatic</b>	Using EC <sub>50</sub> 's for ingredients, the calculated EC <sub>50</sub> for the mixture is between 1 mg/L and 10 mg/L. Data considered includes: 4-Chlorobenzotrifluoride LC <sub>50</sub> : 3mg/L (96h, Danio rerio (zebra fish)), EC <sub>50</sub> : 2mg/L (48h, Daphnia magna), NOEC: 0.41mg/L (72h, Pseudokirchneriella subcapitata (green algae)) D-limonene 0.702 mg/l (96hr, fish), 0.421mg/L (48 hr, Crustacean), 0.719 mg/L (72hr, Algal).
<b>Bioaccumulation</b>	No data
<b>Degradability</b>	No data
<b>Soil</b>	This mixture may be harmful to the soil environment. D-Limonene is classed 9.2B by EPA.
<b>Terrestrial vertebrate</b>	This mixture is not classed as 9.3. See acute toxicity.
<b>Terrestrial invertebrate</b>	No evidence of toxicity towards terrestrial invertebrates.
<b>Biocidal</b>	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 method

Disposal 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 rendered 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.

<b>UN number:</b>	3501	<b>Proper shipping name:</b>	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Acetone, Perchlorobenzotrifluoride)
<b>Class(es)</b>	2.1	<b>Packing group:</b>	NA
<b>Precautions:</b>	Flammable aerosol	<b>Hazchem code:</b>	2YE
<b>IMDG</b>			

<b>UN number:</b>	3501	<b>Proper shipping name:</b>	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Acetone, Perchlorobenzotrifluoride)
<b>Class(es)</b>	2.1	<b>Packing group:</b>	NA
<b>Precautions:</b>	Flammable aerosol	<b>EmS</b>	F-D, S-U

**IATA**

<b>UN number:</b>	3501	<b>Proper shipping name:</b>	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (Acetone, Perchlorobenzotrifluoride)
<b>Class(es)</b>	2.1	<b>Packing group:</b>	NA
<b>Precautions:</b>	Flammable aerosol		

**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 2020 . 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 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 > 1000L 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**

<b>Approval Code</b>	Approval HSR002515, Aerosols (Flammable) Group Standard 2020 Controls, EPA. <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>
<b>CAS Number</b>	Unique Chemical Abstracts Service Registry Number
<b>EC<sub>50</sub></b>	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
<b>EPA</b>	Environmental Protection Authority (New Zealand)
<b>GHS</b>	Globally Harmonised System of Classification and Labelling of Chemicals, 7 <sup>th</sup> revised edition, 2017, published by the United Nations.
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
<b>HSNO</b>	Hazardous Substances and New Organisms (Act and Regulations)
<b>IARC</b>	International Agency for Research on Cancer
<b>LEL</b>	Lower Explosive Limit
<b>LD<sub>50</sub></b>	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
<b>LC<sub>50</sub></b>	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
<b>NZIoC</b>	New Zealand Inventory of Chemicals
<b>STEL</b>	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
<b>STOT RE</b>	System Target Organ Toxicity – Repeated Exposure
<b>STOT SE</b>	System Target Organ Toxicity – Single Exposure
<b>TWA</b>	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
<b>UEL</b>	Upper Explosive Limit
<b>UN Number</b>	United Nations Number
<b>WES</b>	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.

**References**

<b>Data</b>	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).
<b>Controls</b>	EPA notices, <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> , Health and Safety at Work (Hazardous Substances) Regulations 2017, <a href="http://www.legislation.govt.nz">www.legislation.govt.nz</a>
<b>WES</b>	The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their web site – <a href="http://www.worksafe.govt.nz">www.worksafe.govt.nz</a> .
<b>Other References:</b>	Suppliers SDS, EU ECHA, ingredients SDS's, ChemIDplus

**Review**

<b>Date</b>	<b>Reason for review</b>
<b>March 2019</b>	Not applicable – new SDS
<b>May 2023</b>	5 yearly update, HSNO to GHS 7

**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 GHS 7 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](mailto:info@datachem.co.nz) or phone: +64 21 1040951.

