



# Safety Data Sheet      VERTI -CLING

Supersedes Date      Initial Release

Issuing Date DEC 2016

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** VERTI -CLING

**Recommended use** Cleaning agent

**Manufacturer, importer, supplier**

NCH AUSTRALIA PTY LTD, DIV. OF NCH CORPORATION  
5-9,Ralph Street , Alexandria , NSW -2015

**Telephone inquiry**

+61-2-96690260

**Emergency Telephone Number**

+61-2-96690237 / 0401718972

**Fax number**

+61-2-96931562

**Product Code** 5439

**Chemical nature** Foaming orange oil degreaser aerosol

**Distributor**

NCH AUSTRALIA PTY LTD, DIV. OF NCH CORPORATION  
5-9, Ralph Street , Alexandria , NSW -2015

**Telephone Number**

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## 2. HAZARD IDENTIFICATION

Colour Tan Off-white

Physical State Liquid

Odour Lemon/Citrus

Mixture or Pure Substance: Mixture

**GHS****Classification**Physical Hazards

Gases under pressure

Category 1

Health Hazard

Skin Corrosion/Irritation

Category 2

Skin Sensitization

Category 1

Other Hazards**Labelling**Signal Word**Warning**HazardStatements

H280 - Contains gas under pressure; may explode if heated

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

PrecautionaryStatements

P261 - Avoid breathing dust/fume gas/mist/vapours/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling.

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

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

P362 - Take off contaminated clothing and wash before reuse

P363 - Wash contaminated clothing before reuse

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

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

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

P410 + P403 - Protect from sunlight. Store in a well-ventilated place

P501 - Dispose of contents/container in accordance with applicable local regulations.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	ENCS	Weight %
D-Limonene	5989-27-5	Present	0-10
Butane	106-97-8	Present	0-10
Propane	74-98-6	Present	0-10
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS			UP TO 100 %

#### 4. FIRST AID MEASURES

<b>General advice</b>	Avoid contact with skin, eyes and clothing. Avoid breathing vapours, mist, or gas.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
<b>Inhalation</b>	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
<b>Notes to physician</b>	May cause sensitization of susceptible persons. Aspiration hazard if swallowed - can enter lungs and cause damage.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b>	> 94°C	<b>Method</b>	Seta closed cup
<b>Auto ignition Temperature</b>	No information available.		
<b>Flammability Limits in Air % Mixture.</b>	<b>Upper</b> 9.5	<b>Lower</b>	1.2
<b>Suitable Extinguishing Media</b>	Foam. Alcohol-resistant foam. Carbon dioxide (CO <sub>2</sub> ), Foam, Dry Chemical or Water fog. Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
<b>Specific hazards arising from the chemical</b>	Flame extension: 30 inches / 75 cm and Burn back: 3 inch / 7.5 cm. Solvent vapours are heavier than air and may spread along floors. Vapours may ignite and explode. Material can create slippery conditions.		
<b>Protective Equipment and Precautions for Firefighters</b>	Wear self-contained breathing apparatus pressure-demand, Safe Work, Australia (approved or equivalent) and full protective gear.		

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
<b>Environmental Precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
<b>Methods for Cleaning Up</b>	Clean preferably with a detergent, do not use solvents. Pick up and transfer to properly labelled containers.
<b>Neutralizing Agent</b>	Not applicable.

#### 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with skin, eyes and clothing			
<b>Storage</b>	Avoid breathing vapours, mist or gas			
<b>Storage Temperature</b>	Keep containers tightly closed in a dry, cool and well-ventilated place			
<b>Storage Conditions</b>	Freezing will affect the physical condition but will not damage the material. Thaw and mix before using			
<b>Storage Temperature</b>	<b>Minimum</b> 4 °C	<b>Maximum</b>	49 °C	
<b>Storage Conditions</b>	<b>Indoor</b> X	<b>Outdoor</b>	<b>Heated</b>	<b>Refrigerated</b>

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Component	ES-TWA	ISHL	ACGIH TLV
D-Limonene		no data available	No data available
Butane	TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>	no data available	STEL: 1000 ppm
Propane		no data available	TWA: 1000 ppm
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS		no data available	No data available

### Engineering Measures

Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment Respiratory Protection

In case of inadequate ventilation wear respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators  
Tightly fitting safety goggles.

### Eye/Face Protection

### Hand Protection

Protective gloves

### Skin Protection

Wear suitable protective clothing, Impervious gloves.

### General Hygiene Considerations

Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Opaque
Colour	Tan Off-white
Physical State	Liquid
Odour	Lemon/Citrus
Odour Threshold	No data available
pH	8.2
Melting Point/Range	No data available
Freezing Point	No information available
Boiling Point/Range	>100 °C
Flash Point	> 94°C
Method	Seta closed cup
Evaporation Rate	9.77 (BuAc = 1)
Vapour Pressure	82.68 mm Hg @ 21°C
Solubility	Slightly soluble
Vapour Density	1.6 (air = 1)
Specific Gravity	0.94
Auto ignition Temperature	No information available.
Viscosity	Non viscous
Molecular Weight	No data available
Percent Volatile (Volume)	96.0
VOC Content (%)	18.8
VOC Content (g/L)	176

## 10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from open flames, hot surfaces, and sources of ignition
Incompatible Products	Strong oxidizing agents, Reducing agents, Strong acids, Strong bases, Highly halogenated compounds, Vinyl compounds.
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides.
Possibility of Hazardous Reactions	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

### Product Information

**Principle Route of Exposure** Skin contact, Eye contact, Inhalation.

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

**Oral LD50** 40,176.00 mg/kg  
**Dermal LD50** No information available

### Inhalation LC50

**Gas** Not applicable

**Mist** 9.00 mg/L

**Vapour** 8,578.00 mg/L

### Primary Routes of Entry

Inhalation, Skin Absorption.

### Main Symptoms

#### Acute Effects

**Eyes** Severe irritation.

**Skin** Causes skin irritation. May cause allergic skin reaction.

**Inhalation** May cause irritation of respiratory tract & mucous membrane. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

**Ingestion** Irritating to mouth, throat, and stomach. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

#### Chronic Effects

May cause sensitization by skin contact, Prolonged skin contact may defat the skin and produce dermatitis, Liver injury may occur.

#### Target Organ Effects

Respiratory system, Skin, Central nervous system, Liver, Kidney, Immune system, Heart, Testes.

#### Aggravated Medical Conditions

Respiratory disorders, Skin disorders, Neurological disorders, Liver disorders, Kidney disorders, Heart disease.

### Component Information

#### Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
D-Limonene	= 4400 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	no data available	no data available	no data available
Butane	no data available	no data available	= 658 g/m <sup>3</sup> ( Rat ) 4 h	no data available	no data available
Propane	no data available	no data available	= 658 mg/L ( Rat ) 4 h	no data available	no data available
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS	no data available	no data available	no data available	no data available	no data available

#### Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
D-Limonene	no data available	Skin sensitization	no data available	no data available	Immune system
Butane	no data available	no data available	no data available	no data available	CNS, heart
Propane	no data available	no data available	no data available	no data available	CNS, heart
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS	no data available	no data available	no data available	no data available	no data available

#### Carcinogenicity

There are no known carcinogenic chemicals in this product.

Component	ES	ACGIH	IARC	NTP	Other
D-Limonene	not applicable	not applicable	not applicable	not applicable	not applicable
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
Propane	not applicable	not applicable	not applicable	not applicable	not applicable
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS	not applicable	not applicable	not applicable	not applicable	not applicable

## 12. ECOLOGICAL INFORMATION

**Product Information** No data available  
**Component Information**

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
D-Limonene	no data available	LC50 0.619 - 0.796 mg/L Pimephales promelas 96 h LC50 = 35 mg/L Oncorhynchus mykiss 96 h	no data available	no data available	N/A
Butane	no data available	no data available	no data available	no data available	2.89
Propane	no data available	no data available	no data available	no data available	2.3
INGREDIENTS DETERMINED NOT TO BE HAZARDOUS	no data available	no data available	no data available	no data available	N/A

**Eco toxicity effects** No information available  
**Persistence & Degradability** No specific information.  
**Bioaccumulation** No information available  
**Mobility** No information available

### 13. DISPOSAL CONSIDERATIONS

**Product Disposal** Dispose of in accordance with local regulations.  
**Container Disposal** Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

### 14. TRANSPORT INFORMATION

#### ADG 7

**UN-No** UN1950  
**Proper Shipping Name** Aerosols, non-flammable  
**Hazard Class** 2.2  
**Packing Group** Not applicable  
**Hazchem** 2YE  
**Shipping Description** UN1950, Aerosols,non-flammable,2.2 LTD QTY

### 15. REGULATORY INFORMATION

**Australia**  
**POISON SCHEDULE(SUSMP)** None Allocated

### 16. OTHER INFORMATION

**Prepared By** Arvind Rane  
**Super cedes Date** Initial Release  
**Issuing Date** DEC 2016  
**Reason for Revision** GHS-SDS FORMAT  
**List of References.** No information available.

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