

Section 1 - Identification of The Material and Supplier

Product Name: Vertex Ground Marker Fluoro Green

Product Use: Marking Paint

Supplier: Lubricants NZ LTD
22 Marphona Crescent



Takanini 2105

NEW ZEALAND

Phone: (09) 640 0004

Fax: (09) 266 4004

EMERGENCY

TELEPHONE NUMBER: 0800 734 607

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This version issued: December 22 and is valid for 5 years from this date.

Section 2 - Hazards Identification

Classified as a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land.

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Subclasses: Subclass 2.1.2 Category A - Flammable Aerosols.

Subclass 6.1 Category E - Substances which are acutely toxic.

Subclass 6.3 Category B - Substances that are mildly irritating to the skin.

Subclass 9.1 Category B - Substances that are ecotoxic in the aquatic environment.

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Hazard and Precautionary Information:

Warning. Flammable aerosol. Causes mild skin irritation. May be harmful if inhaled.

Toxic to aquatic life with long lasting effects. Keep out of reach of children. Read label

before use. Read Safety Data Sheet before use. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C

Risk Phrase(s)

R12 Extremely Flammable.

R36 Irritating to eyes.

R38 Irritating to skin.

R44 Risk of explosion if heated under confinement.

R67 Vapours may cause drowsiness and dizziness

Safety Phrase(s)

S16 Keep away from sources of ignition - No smoking.

S23 Do not breathe gas/fumes/vapour/spray

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S33 Take precautionary measures against static discharges.

S35 This material and its container must be disposed of in a safe way.

S36/37 Wear suitable protective clothing and gloves.

S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

S9 Keep container in a well ventilated place.

Section 3 - Emergency Overview

Physical Description & Colour: Green Liquid.

Odour: Characteristic odour.

Section 4 - Potential Health Effects

Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice.

Skin Contact:

If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

Eye Contact:

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion:

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.

Medical attention and special treatment:

Treat symptomatically

Section 5 - Composition/Information on Ingredients

Ingredients	CAS No	Conc %
Aliphatic hydrocarbon (heptanes)	64742-49-0	30-60%
Butane	106-97-8	10-<30%
Propane	74-98-6	10-<30%
Acetone	67-64-1	<10%
Isopropanol	67-63-0	<10%
Non-Hazardous	N/A	To 100%

Section 6 - First Aid Measures

Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice.

Skin Contact:

If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

Eye Contact:

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If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion:

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.

Medical attention and special treatment:

Treat symptomatically.

Section 7 - Fire Fighting Measures

Hazards from combustion products:

Flammable gas. On burning will emit toxic fumes, including those of oxides of carbon.

Precautions for fire fighters and special protective equipment:

Heating can cause expansion or decomposition of the material, which can lead to the containers exploding.

If safe to do so, remove containers from the path of fire. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Suitable Extinguishing Media:

Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

Hazchem Code: 2YE

Section 8 - Accidental Release Measures

Emergency procedures:

Shut off all possible sources of ignition. Clear area of all unprotected personnel.

Methods and materials for containment and clean up:

In the event of an aerosol can developing a leak, allow to fully discharge in the open air before disposal.

Section 9 - Handling and Storage

Precautions for safe handling: Avoid skin and eye contact and breathing in vapour, mists and aerosols. Ensure spray nozzle is always directed away from the user. May form flammable vapour mixtures with air. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke. Vapour may travel a considerable distance to source of ignition and flash back.

Conditions for safe storage: Store in cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidising agents. Keep containers closed when not in use - check regularly for leaks.

Section 10 - Exposure Controls and Personal Protection

Occupational Exposure Limits: No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH). However, Workplace Exposure Standard(s) for constituent(s): Butane: WESTWA 800 ppm, 1,900 mg/m³

Propane: Simple asphyxiant-may present an explosion hazard

White spirits (Stoddard solvent): WES-TWA 100 ppm, 525 mg/m³

As published by the New Zealand Occupational Safety and Health Service (OSH).

No Exposure Standards assigned to other constituents. WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

Asphyxiant - gases which can lead to reduction of oxygen concentration by displacement or dilution. The minimum oxygen content in air should be 18% by volume under normal atmospheric pressure.

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These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering controls:

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Use in well ventilated areas. Keep containers closed when not in use. An asphyxiant gas which can lead to the displacement or dilution of oxygen. The minimum oxygen content in air should be 18% by volume under normal atmospheric pressure.

Personal Protective Equipment:

The selection of PPE is dependant on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Wear clean overalls, safety boots, general purpose gloves (PVC) and safety spectacles. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. For leaking aerosol cans: Wear clean overalls, safety boots, general purpose gloves (PVC) and full face visor. If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

FOR CONSUMER USE: Wear rubber gloves and eye protection while handling the product. Wash hands after use.

Section 11 - Physical and Chemical Properties

Physical state:	Aerosol
Odour:	Hydrocarbon
Solubility:	Insoluble in Water
Specific Gravity:	0.70@20°C
Relative Vapour Density (air=1) :	>1
Vapour Pressure (20 °C):	N Av
Flash Point (°C) :	<0 (Hydrocarbon propellant)
Flammability Limits (%):	N Av
Can Pressure <8 bar	
Auto ignition Temperature (°C):	N Av

Section 12 - Stability and Reactivity

Chemical stability: Stable under normal conditions of use.

Conditions to avoid: Avoid exposure to heat, sources of ignition, and open flame.

Incompatible materials: Incompatible with oxidising agents.

Hazardous decomposition products: Oxides of carbon.

Hazardous reactions: Hazardous polymerisation will not occur.

Section 13 - Toxicological Information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is showing signs of central system depression (like those of drunkenness) there is greater likelihood of the patient breathing in vomit and causing damage to the lungs. Breathing in vomit may lead to aspiration pneumonia (inflammation of the lung).

Eye contact: May be an eye irritant.

Skin contact: Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Inhalation: Breathing in vapour can result in headaches, dizziness, drowsiness, and possible



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nausea. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness. Intentional misuse by deliberately concentrating and breathing the contents can be harmful or fatal.

Long Term Effects: No information available for the product.

Toxicological Data: No LD50 data available for the product.

Section 14 - Ecological Information

Ecotoxicity Avoid contaminating waterways.

Section 15 - Disposal Considerations

Disposal methods: Refer to Waste Management Authority. Advise flammable nature. Do not puncture or burn can when empty; contents are under pressure. If aerosol can develops a leak, allow to fully discharge before disposal.

Normally suitable for disposal at approved land waste site.

Section 16 - Transport Information

Road and Rail Transport:

Classified as a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land.

UN No: 1950

Class-primary: 2.1 Flammable Gas

Proper Shipping Name: AEROSOLS

Hazchem Code: 2YE

Marine Transport:

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN No: 1950

Class-primary 2.1 Flammable Gas

Proper Shipping Name: AEROSOLS

Air Transport:

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods

Regulations for transport by air; DANGEROUS GOODS.

UN No: 1950

Class-primary: 2.1 Flammable Gas

Proper Shipping Name: AEROSOLS, FLAMMABLE.

Section 17 - Regulatory Information

Classification: Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Subclasses:

Subclass 2.1.2 Category A - Flammable Aerosols.

Subclass 6.1 Category E - Substances which are acutely toxic.

Subclass 6.3 Category B - Substances that are mildly irritating to the skin.

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Section 18 - Other Information

This MSDS contains only safety-related information. For other data see product literature.

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or

completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

Lubricants NZ shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to

adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the

information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.