



Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Chemz Log & Ground Marker Aerosol (All standard colours)

Product Code: 8404, 8414, 8424, 8434, 8444, 8454, 8474, 8484, 8494

Uses: Log marker aerosol for all marking applications. Suitable for wet weather use.

Company: Chemz Limited

Address: 80 Rangitane Place

Whakatu, Hastings

Telephone: +64 6 877 9690

Email: info@chemz.co.nz

Emergency Number 24 hr: 0800 764 766 (0800 POISON) National Poison Centre

Section 2 – HAZARDS IDENTIFICATION

Classification of the product

Considered a hazardous substance according to the Hazardous Substance (Minimum Degrees of Hazard) Regulations NZ. Classified as a dangerous goods for transport purposes.

GHS Classifications:

Aerosol Category 1

Eye irritation Category 2

Aquatic toxicity (Chronic) Category 2

HSNO Classifications:

2.1.2A Extremely flammable aerosol

6.4A Irritating to the eye

9.1B Ecotoxic in the aquatic environment with lasting effects







Signal Words: Danger

Hazard Statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
Ethanol Denatured	64-17-5, 67-56-1	10 - 30
Acetone	67-64-1	10 - 30
Heptanes	64742-49-0	10 - 30
Hydrocarbon propellant (LPG - Propane, Butane)	68476-85-7	30 - 60
Other Ingredients determined not to be hazardous	-	to 100

Section 4 – FIRST AID MEASURES

If medical advice is needed, have product container or label at hand.

Ref: Log & Ground Marker Aero (All colours) Date: 18.6.23 Supersedes: 19.9.18 Issue No: 7 Page 1 of 5 pages





If exposed or if you feel unwell: Call a POISON CENTRE or 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. Direct contact may cause irritation in sensitive

individuals. If skin irritation or rash occurs: Get medical advice/ attention.

Inhalation: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for

breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTRE or doctor. Do NOT induce vomiting. Where there is

risk of vomiting, lean person forward or place on left side to avoid aspiration of product into lungs.

Obtain immediate medical attention.

Notes to physician: Treat symptomatically and supportively. No specific antidote.

Section 5 – FIRE-FIGHTING MEASURES

General fire hazards Pressurised, extremely flammable aerosol.

Specific hazards: Containers can build up pressure if exposed to heat and/or fire and may explode. Vapours may form an

explosive mixture with air. Vapours can travel to a source of ignition and flash back. May float and be re-

ignited on surface water.

Further advice: On burning may emit toxic fumes including those of carbon monoxide and carbon dioxide. Fire fighters to

wear self-contained breathing apparatus if risk of exposure to products of combustion.

Extinguishing media: Use water spray, fog, or foam. Use water spray to cool fire-exposed containers. Water may be ineffective.

Do NOT use straight streams of water. Do not discharge extinguishing waters into the aquatic

environment.

Protective equipment Firefighters must use standard protective equipment including flame retardant coat, helmet with face

shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting instructions In the event of fire, cool containers with water spray to prevent vapour pressure build up. Move

containers from fire area if you can do so without risk. Runoff can cause environmental damage.

Hazchem Code: 2YE

Section 6 – ACCIDENTAL RELEASE MEASURES

Minor spills: Clean up all spills immediately. Remove all sources of ignition. If safe to do, damaged cans should be

placed in a container outdoors, away from all ignition sources, until pressure has dissipated. Undamaged

cans should be gathered and stowed safely. Provide ventilation. Wash with water.

Major spills: Evacuate the spill area. Call the Fire Brigade. Remove all sources of ignition. If safe to do so, prevent

spillage from entering drains or water courses. If material enters drains, advise emergency services. Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers for disposal.

Section 7 - HANDLING AND STORAGE

Handling Precautions: Read product label before use. Keep out of reach of children.

This product is highly flammable. Keep away from heat and open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurised container: Do not pierce or burn, even

after use.

Use in a well-ventilated area. Avoid breathing spray. Wash hands with soap and water after handling.

Storage: 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.

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: No value assigned for product. Exposure standards for constituents (NZ WES);

Ref: Log & Ground Marker Aero (All colours) Date: 18.6.23 Supersedes: 19.9.18 Issue No: 7 Page 2 of 5 pages





Material	TWA, mg/m ³	STEL, mg/m ³
Ethanol Denatured	1,880	-
Acetone	1,185	2,375
Heptanes	1,200	1,600
LPG (Liquefied petroleum gas – butane, propane)	1,800	-

Additional Information: Wash hands before eating, drinking and smoking. Beware: Deliberately sniffing or inhaling concentrated

contents can be harmful or fatal. Avoid breathing spray.

Engineering Controls: No controls generally required when handling small quantities. Use with adequate ventilation.

Larger quantities: General exhaust is adequate under normal operating conditions. Exhaust ventilation should be designed to prevent accumulation and recirculation in the workplace. Ventilation equipment

and lighting should be explosion-resistant.

Protective Equipment: General protective gloves are recommended. In an industrial environment: chemical protective gloves,

safety glasses or chemical goggles are recommended. Wash contaminated clothing before reuse.

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

In case of inadequate ventilation wear respiratory protection. If TWA is exceeded, wear an approved

respirator with a type A filter.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Coloured liquid spray with characteristic odour.

Not applicable.

pH: Not applicable.

Vapour Density: > 1 (Air =1)
Vapour Pressure, kPa: 300 - 600

Boiling Point, °C:

Melting Point, °C: Not applicable.

Specific Gravity: About 0.90

Flash Point, °C: < 0 (propellant)

Explosion Limit, % v/v: LEL 1.2% UEL 9.5%

Autoignition Temp, °C: Not applicable.

Solubility: Not soluble in water.

Section 10 - STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use. Not reactive. Avoid oxidisers. Avoid elevated temperatures.

Section 11 - TOXICOLOGICAL INFORMATION

Basis for Assessment: Information given is based on product testing, and/or similar products, and/or components.

Acute Oral Toxicity: LD₅₀ estimated to be > 5,000 mg/kg (based on component mixture, excluding propellant).

Acute Dermal Toxicity: LD₅₀ estimated to be > 5,000mg/kg (based on component mixture, excluding propellant).

Acute Inhalation Toxicity: LC_{50} estimated to be > 20 mg/L, Rat 4 hour (based on component mixture).

Beware: Deliberately sniffing or inhaling concentrated contents can be harmful or fatal.

Skin Irritation: May cause skin irritation. Prolonged/repeated contact may cause defatting of the skin and dermatitis.

Eye Irritation: Spray may be seriously irritating to the eye.

Inhalation: May cause drowsiness or dizziness.

Ref: Log & Ground Marker Aero (All colours) Date: 18.6.23 Supersedes: 19.9.18 Issue No: 7 Page 3 of 5 pages





Respiratory Irritation: Inhalation of vapours or mists may cause irritation to the respiratory system.

Sensitisation: Product is not expected to be a contact or respiratory sensitiser.

Mutagenicity: Not expected to be mutagenic.

Carcinogenicity: Not expected to be carcinogenic.

Reproductive toxicity: Not expected to be a human reproductive or developmental toxicant.

STOT (Narcotic): Prolonged inhalation of vapours may be narcotic and cause drowsiness or dizziness.

Repeated Dose Toxicity: Repeated, prolonged exposure by inhalation may cause damage to organs.

Additional Information: None of the components present in this material at concentrations equal to or greater than 0.1% are

listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

Section 12 – ECOTOXICITY INFORMATION

Ecotoxicity: Large quantities may be ecotoxic in the aquatic environment with long lasting effects.

Mobility: Product is largely volatile and will rapidly evaporate to the air.

Persistence/degradability: Some components may be persistent and may bioaccumulate.

Section 13 – DISPOSAL CONSIDERATIONS

Material Disposal: Product wastes should be disposed of in accordance with applicable regulations. Do not dispose into the

environment, in drains or in water courses.

Large quantities should be degassed by an aerosol recycler. Do not dispose of large quantities of

pressurised aerosols in landfills. Incineration in an authorised facility is suggested.

Container Disposal: Recycle empty container if possible. Product containers are also considered wastes of the same class of

the contents and should be disposed of in accordance with applicable regulations.

Section 14 – TRANSPORT INFORMATION

Transport: Classified as a Dangerous Good for transport purposes.

Class 2.1 should not be loaded on the same vehicle as Classes 1, 3 (where both are in bulk), 4, 5, and 7.

They may be loaded with Classes 3, 6, 8, 9, foodstuffs and foodstuff empties.

Proper Shipping Name: Aerosols
UN Number: 1950
Dangerous Goods Class: 2.1

Transport Labels Required: Class 2 Flammable



Subsidiary Risk: Not applicable

Packing Group: Not applicable

Marine Pollutant: No

EMS Number F-D, S-U (UN 1950 Flammable aerosols)

DG Segregation: This product is classified as a Dangerous Goods. Please consult the Land Transport Rule: Dangerous

Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.

Ref: Log & Ground Marker Aero (All colours) Date: 18.6.23 Supersedes: 19.9.18 Issue No: 7 Page 4 of 5 pages





Section 15 - REGULATORY INFORMATION

Inventory Listing NZIOC (New Zealand Inventory of Chemicals); All components of this product are listed.

SDS regulations This Safety Data Sheet was prepared in accordance with the EPA Hazardous Substances (Safety Data

Sheets) Notice July 2017.

EPA Approval Number: HSR002515 Aerosols (Flammable) Group Standard 2020.

EPA Hsno Controls: Refer to www.epa.govt.nz for information on Controls.

This substance is to be managed using the conditions specified in an applicable Group Standard.

Section 16 - OTHER INFORMATION

Additional information Health Effects from Exposure: It should be noted that the effects from exposure to this product will

depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the

risks and apply control methods where appropriate.

Abbreviations CAS Chemical Abstract Service number

EMS Emergency Response Procedures for Ships Carrying Dangerous Goods

EPA Environmental Protection Agency
GHS Globally Harmonized System

IARC International Agency for Research on Cancer
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods

LC₅₀ Lethal Concentration, 50% / Median Lethal Concentration

LD₅₀ Lethal Dose, 50% / Median Lethal Dose

LEL Lower Explosion Limit
mg/m³ Milligrams per Cubic Metre

NZIoC New Zealand Inventory of Chemicals

N.O.S. Not otherwise specified
 OEL Occupational Exposure Limit
 PEL Permissible Exposure Limit
 STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

TLV Threshold Limit Value
TWA Time Weighted Average
UEL Upper Explosion Limit

This SDS summarises our best knowledge of the health and safety hazard information. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Since we cannot control the conditions under which the product may be used, each user must review this SDS in the context of how the user intends to use the product. End of sds.

Ref: Log & Ground Marker Aero (All colours) Date: 18.6.23 Supersedes: 19.9.18 Issue No: 7 Page 5 of 5 pages