



NEW ZEALAND MADE FOR THE TRADE

SAFETY DATA SHEET

Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

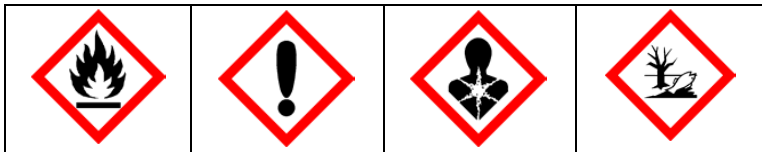
Product Name: Chemz Log Marker & Ground Marker Aerosol (All colours & upside down)
Uses: Log Marker Spray
Company: Chemz Ltd
Address: PO Box 113
Whakatu
Hastings 4180
New Zealand
Telephone: +64 6 877 9690
Email: info@chemz.co.nz
Emergency Number: +64 21 822 233
National Poison Centre: 0800 764 766 (0800 POISON)

Section 2 – HAZARDS IDENTIFICATION

Product is classified as hazardous according to Schedules 1 to 6 of the *Hazardous Substance (Minimum Degrees of Hazard) Regulations 2001* of the HSNO Act, 1996.

HSNO Classifications:

- 2.1.2A Extremely flammable aerosol
- 6.1E Acutely toxic (oral)
- 6.3B Mildly irritating to the skin
- 6.4A Irritating to the eye
- 6.8B Suspected human reproductive or developmental toxicants
- 9.1B Ecotoxic in the aquatic environment



Signal Words: Danger

Hazard Statements

- H222 Extremely flammable aerosol.
- H303 May be harmful if swallowed.
- H316 Causes mild skin irritation.
- H320 Causes eye irritation.
- H361 Suspected of damaging fertility or the unborn child

Precaution Statements

- P102 Keep out of reach of children.
- P103 Read label before use.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat and open flames/hot surfaces. No smoking.



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P211	Do not spray on an open flame or other ignition source.
P264	Wash hands thoroughly after handling.
P251	Pressurised container: Do not pierce or burn, even after use.
P410	Protect from sunlight.
P412	Do not expose to temperatures exceeding 50 °C.
P280	Wear protective gloves, protective clothing and eye protection.
P391	Collect spillage
P405	Store locked up.

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
Heptane SBP	64742-49-0	10 - 30
Hydrocarbon propellant (Propane, Butane)	106-97-8, 74-98-6	10 - 30
Other ingredients determined to not be hazardous	-	to 100%

Section 4 – FIRST AID MEASURES

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

If exposed or if you feel unwell: Call a POISON CENTER 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.
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 CENTER or doctor/ physician.
Ingestion:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. 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.
Skin contact:	Direct contact may cause irritation in sensitive individuals. IF ON SKIN: Remove all contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention.
Notes to physician:	Treat symptomatically and supportively. Risk of aspiration to lungs. No specific antidote. Potential for chemical pneumonitis.

Section 5 – FIRE-FIGHTING MEASURES

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. Will float and can be re-ignited on surface water. Will burn if involved in a fire.
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. Use water spray to keep fire-exposed containers cool.
Extinguishing media:	For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do not discharge extinguishing waters into the aquatic environment. Do NOT use straight streams of water.



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Hazchem Code: 2YE

Section 6 – ACCIDENTAL RELEASE MEASURES

- Minor spills:** Clean up immediately. Remove all sources of ignition. If safe, 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. Wash area down with excess water.
- Disposal Statement** Product wastes may be ecotoxic and should be disposed of in accordance with local legislation. Incineration is suggested. Product containers are also considered wastes of the same class of the contents and should be disposed of in accordance with local legislation.

Section 7 – HANDLING AND STORAGE

- Handling Precautions:** Read product label before use. This product is highly flammable. Do not use near open flame, or sources of ignition. No smoking. Pressurised container: Do not pierce or burn, even after use. Use outdoors or in well-ventilated area. Wear personal protective equipment. Wash hands with soap and water after handling. Wash protective clothing separate to household laundry.
- 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 this specific material. However, exposure standards for constituents;

Material	TWA, mg/m ³	STEL, mg/m ³	Category/Notices
Ethanol Denatured	1880	-	-
Acetone	1185	2375	-
Heptane Isomers	600	930	-
Butane	1900	-	-
Propane	Simple Asphyxiant	-	-

- Additional Information:** Wash hands before eating, drinking and smoking. Do not eat, drink or smoke when using this product.
- Engineering Controls:** No controls required when handling small quantities. Use with adequate ventilation. Larger quantities: General exhaust is adequate under normal operating conditions. Ventilation equipment should be explosion-resistant.
- Protective Equipment:** Gloves, safety glasses or chemical goggles are recommended in an industrial environment. If TWA is exceeded, wear an approved respirator with a type A filter.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

- Physical state:** Coloured volatile liquid with a characteristic solvent odour.
- pH:** Not applicable.
- Vapour Density:** > 1 (Air =1)
- Vapour Pressure, kPa:** 300 - 800
- Boiling Point, °C:** Not applicable.
- Melting Point, °C:** Not applicable.



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Specific Gravity:	Not applicable.
Flash Point, °C:	< 0 (hydrocarbon propellant)
Explosion Limit, % v/v:	LEL 1.2% UEL 9.5%
Autoignition Temp, °C:	Not applicable.
Solubility:	Partially miscible in water.

Section 10 – STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use and storage. Not reactive. Avoid oxidisers. Avoid elevated temperatures.
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Section 11 – TOXICOLOGICAL INFORMATION

Basis for Assessment:	Information given is based on product testing, and/or similar products, and/or components.
Acute Oral Toxicity:	Moderate to low toxicity: LD50 calculated to be > 5000 mg/kg, (Oral, Rat). Harmful if swallowed.
Acute Dermal Toxicity:	Low toxicity: LD50 estimated to be > 2000 mg/kg.
Acute Inhalation Toxicity:	High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea.
Skin Irritation:	May cause mild skin irritation. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.
Eye Irritation:	Vapours may be irritating to the eye.
Respiratory Irritation:	Inhalation of vapours or mists may cause irritation to the respiratory system.
Repeated Dose Toxicity:	Central nervous system: repeated exposure affects the nervous system. May cause damage to organs. Prolonged contact with product may result in irritant contact dermatitis.
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:	Harmful in aquatic environments in high concentrations.
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Section 13 – DISPOSAL CONSIDERATIONS

Material Disposal:	Product wastes are considered ecotoxic and should be disposed of applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water. Collect spillage.
Container Disposal:	Pressurised container: Do not pierce or burn, even after use. Recycle empty container if possible. Large quantities should be degassed by an aerosol recycler. Do not dispose of large quantities of pressurised aerosols in landfills. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Section 14 – TRANSPORT INFORMATION

Transport:	Classified as a dangerous goods according to the NZ Land Transport Rule for road and rail, IMDG for sea, IATA for air. 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



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UN Number: 1950
Dangerous Goods Class: 2.1 Flammable aerosols
Subsidiary Risk: Class 6, Toxic
Packing Group: Not applicable
Hazchem Code: 2YE

Section 15 – REGULATORY INFORMATION

Regulatory information specific for the substance or mixture

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

HSR Number: HSR002515 Aerosols (Flammable) Group Standard 2017

Section 16 – OTHER INFORMATION

This MSDS summarises our best knowledge of the health and safety hazard information. Since we cannot control the conditions under which the product may be used, each user must review this MSDS in the context of how the user intends to use the product.