



NEW ZEALAND MADE FOR THE TRADE

## SAFETY DATA SHEET

### Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** Chemz Hi-Viz Fluoro Multi Spray Marker Aerosol [400ml]  
**All Colours including Up Side Down & Right Way Up Aerosols**

**Product Code:** 8114, 8124, 8134, 8144, 8154, 8164, 8174, 8214, 8224, 8234, 8244, 8254, 8394, 8264, 8274

**Uses:** High visibility paint aerosol for all marking applications.

**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:

Flammable aerosol Category 1  
Skin irritation Category 2  
Eye irritation Category 2  
STOT (Repeated exposure) Category 2  
Aquatic toxicity (Chronic) Category 2

#### HSNO Classifications:

2.1.2A Extremely flammable aerosol  
6.3A Irritating to the skin  
6.4A Irritating to the eye  
6.9B Harmful to human target organs or systems (inhaled)  
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.  
H315 Causes skin irritation.  
H320 Causes serious eye irritation.  
H373 May cause damage to organs (repeated exposure).  
H411 Toxic to aquatic life with long lasting effects.

### Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
Heptanes	64742-49-0	30 - 60
2-Propanone	67-64-1	1 - 10
2 Propanol	67-63-0	1 - 10



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Hydrocarbon propellant (LPG - Propane, Butane)	68476-85-7	30 - 60
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### 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 CENTRE or doctor.

<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. Direct contact may cause irritation in sensitive individuals. If skin irritation or rash occurs: Get medical advice/ attention.
<b>Inhalation:</b>	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.
<b>Ingestion:</b>	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.
<b>Notes to physician:</b>	Treat symptomatically and supportively. No specific antidote.

### Section 5 – FIRE-FIGHTING MEASURES

<b>General fire hazards</b>	Pressurised, extremely flammable aerosol.
<b>Specific hazards:</b>	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.
<b>Further advice:</b>	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.
<b>Extinguishing media:</b>	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.
<b>Protective equipment</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Fire fighting instructions</b>	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.
<b>Hazchem Code:</b>	2YE

### Section 6 – ACCIDENTAL RELEASE MEASURES

<b>Spills:</b>	Wear appropriate personal protective equipment. Clear area of unprotected personnel. Remove all sources of ignition. Avoid breathing vapour. Ventilate area where possible. 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.
<b>Environmental precautions:</b>	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
<b>Methods for cleaning up:</b>	Soak up larger spills with sand or other suitable absorbent. Collect into suitable containers for disposal. Wash the contaminated area with excess water, do not release washings to the environment.
<b>Other issues relating to spills:</b>	Clean up in accordance with all applicable regulations.

### Section 7 – HANDLING AND STORAGE

<b>Handling Precautions:</b>	Read product label before use. Keep out of reach of children.
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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);

Material	TWA, mg/m <sup>3</sup>	STEL, mg/m <sup>3</sup>
2-Propanone	1,185	2,375
Heptanes	1,200	1,600
2-Propanol	983	1,230
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:**

General exhaust is adequate under normal operating conditions. Ventilation equipment and lighting should be explosion-resistant.

**Protective Equipment:**

In an industrial environment: 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.

**pH:**

Not applicable.

**Vapour Density:**

> 1 (Air =1)

**Vapour Pressure, kPa:**

300 - 600

**Boiling Point, °C:**

Not applicable.

**Melting Point, °C:**

Not applicable.

**Specific Gravity:**

About 0.81

**Flash Point, °C:**

< 0 (propellant)

**Explosion Limit, % v/v:**

LEL 1.2% UEL 9.5%

**Autoignition Temp, °C:**

Not applicable.

**VOC Content, g/L:**

525

**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.

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<b>Acute Oral Toxicity:</b>	LD <sub>50</sub> estimated to be > 5,000 mg/kg (based on component mixture, excluding propellant).
<b>Acute Dermal Toxicity:</b>	LD <sub>50</sub> estimated to be > 5,000mg/kg (based on component mixture, excluding propellant).
<b>Acute Inhalation Toxicity:</b>	LC <sub>50</sub> 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.
<b>Skin Irritation:</b>	May cause skin irritation. Prolonged/repeated contact may cause defatting of the skin and dermatitis.
<b>Eye Irritation:</b>	Spray may be seriously irritating to the eye. Expected to be reversible in 7 - 21 days.
<b>Respiratory Irritation:</b>	Inhalation of vapours or mists may cause irritation to the respiratory system.
<b>Repeated Dose Toxicity:</b>	Prolonged contact with product may result in irritant contact dermatitis.
<b>Sensitisation:</b>	Product is not expected to be a contact or respiratory sensitiser.
<b>Mutagenicity:</b>	Not expected to be mutagenic.
<b>Carcinogenicity:</b>	Not expected to be carcinogenic.
<b>Reproductive toxicity:</b>	Not expected to be toxic.
<b>Additional Information:</b>	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

<b>Ecotoxicity:</b>	Ecotoxic in the aquatic environment with long lasting effects.
<b>Mobility:</b>	Product is volatile and will rapidly evaporate to the air if released into water.
<b>Persistence/degradability:</b>	More volatile components are expected to degrade in air. Some components may be persistent and may bioaccumulate.

### Section 13 – DISPOSAL CONSIDERATIONS

<b>Material Disposal:</b>	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.
<b>Container Disposal:</b>	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

<b>Transport:</b>	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.
<b>Proper Shipping Name:</b>	Aerosols
<b>UN Number:</b>	1950
<b>Dangerous Goods Class:</b>	2.1
<b>Transport Labels Required:</b>	Class 2 Flammable
	
<b>Subsidiary Risk:</b>	Not applicable
<b>Packing Group:</b>	Not applicable



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<b>Marine Pollutant:</b>	Yes
<b>EMS Number</b>	F-D, S-U (UN 1950 Flammable aerosols)
<b>DG Segregation:</b>	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.

### Section 15 – REGULATORY INFORMATION

<b>Inventory Listing</b>	NZIOC (New Zealand Inventory of Chemicals); All components of this product are listed.
<b>SDS regulations</b>	This Safety Data Sheet was prepared in accordance with the EPA Hazardous Substances (Safety Data Sheets) Notice July 2017.
<b>EPA Approval Number:</b>	HSR002515 Aerosols (Flammable) Group Standard 2020.
<b>EPA Hsno Controls:</b>	Refer to <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for information on Controls. This substance is to be managed using the conditions specified in an applicable Group Standard.

### Section 16 – OTHER INFORMATION

<b>Additional information</b>	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.	
<b>Abbreviations</b>	AICS	Australian Inventory of Chemical Substances
	ADG	Australian Code for the Transport of Dangerous Goods by Road and Rail
	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
	LC <sub>50</sub>	Lethal Concentration, 50% / Median Lethal Concentration
	LD <sub>50</sub>	Lethal Dose, 50% / Median Lethal Dose
	LEL	Lower Explosion Limit
	mg/m <sup>3</sup>	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 msds.