# SAFETY DATA SHEET

## Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

| | |
|---|---|
| **Product Name:** | **Enamel Gloss Paint Aerosol 400ml (Various colours)** |
| **Product Code:** | Gloss White 8694, Gloss Silver 8684 |
| **Uses:** | Quick dry enamel paint. |
| **Company:** | Chemz Limited |
| **Address:** | 80 Rangitane Place |
| | Whakatu, Hastings |
| **Telephone:** | +64 6 877 9690 |
| **Email:** | info@chemz.co.nz |
| **Emergency Phone Number:** | 0800 764 766 (0800 POISON) National Poison Centre 24 Hr |

## Section 2 – HAZARDS IDENTIFICATION

**Classification of the product**

Considered a hazardous substance according to the Hazardous Substances (Hazard Classification) Notice 2020.
Classified as a dangerous goods for transport purposes.

**GHS Classifications:**

Aerosol Category 1
Skin irritation Category 2
Eye irritation Category 2
Reproductive Toxicity Category 2
STOT (Single exposure) Category 2
Hazardous to Aquatic Environment (Chronic) Category 2

**HSNO Classifications:**

| | |
|---|---|
| 2.1.2A | Flammable aerosol |
| 6.3A | Irritating to the skin |
| 6.4A | Irritating to the eye |
| 6.8B | Suspected human reproductive or developmental toxicants |
| 6.9B | Harmful to human target organs (single exposure) |
| 9.1B | Toxic to the aquatic environment with long lasting effects |



**Signal Words**: Danger

**Hazard Statements:**

| | |
|---|---|
| H222 | Extremely flammable aerosol |
| H229 | Pressurised container: May burst if heated |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H371 | May cause damage to organs |
| H411 | Toxic to aquatic life with long lasting effects. |

**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. |

P211 Do not spray on an open flame or other ignition source.
P251 Pressurised container: Do not pierce or burn, even after use.
P271 Use only outdoors or in a well-ventilated area.
P264 Wash hands thoroughly after handling.
P281 Use personal protective equipment as required.
P412 Do not expose to temperatures exceeding 50 °C.
P391 Collect spillage
P405 Store locked up.

## Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

| Hazardous Ingredients | CAS No. | Proportion, % m/m |
|---|---|---|
| Naphtha (Petroleum) Hydrotreated Light | 64742-49-0 | 10 - 30 |
| Acetone | 67-64-1 | 10 -30 |
| Xylene | 1330-20-7 | 1 - 10 |
| Toluene | 108-88-3 | 1 - 10 |
| LPG (butane, propane) | 68476-85-7 | 10 - 30 |
| Non-hazardous ingredients | | 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 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.

**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.

**Skin contact:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice.

**Ingestion:** Not considered a normal route of entry. IF SWALLOWED: Immediately call a POISON CENTRE or doctor. Do NOT induce vomiting. Obtain immediate medical attention.

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

## Section 5 – FIRE-FIGHTING MEASURES

**General fire hazards:** Pressurised container, 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. Contents 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 discharge extinguishing waters into the aquatic environment. Do NOT use straight streams of water.

**Protective equipment:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**Firefighting 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.

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**Hazchem Code:** 2YE

## Section 6 – ACCIDENTAL RELEASE MEASURES

**Minor spills:** Clean up all spills immediately. Remove all sources of ignition. Wipe up with absorbent material. Avoid breathing vapours and contact with skin and eyes. Wear protective clothing, gloves and safety glasses. Provide ventilation in workplace environment if necessary. If safe to do, damaged containers should be placed in a container outdoors, away from all ignition sources.

**Major spills:** Evacuate the spill area and move upwind. Call the Fire Brigade. Remove all sources of ignition. No smoking. May be violently or explosively reactive. Increase ventilation if possible. Wear breathing apparatus and protective gloves.

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. Undamaged containers should be gathered and stored safely, away from ignition sources.

## Section 7 – HANDLING AND STORAGE

**Handling Precautions:** Read product label before use. Keep out of reach of children. Do not handle until all safety precautions have been read and understood.

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

Use outdoors or in a well-ventilated area. Avoid breathing spray or vapours. In confined areas, wear a respirator. 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. Do not store in basements or areas where vapours may accumulate. Keep away from heat, sparks, and flame. Store away from incompatible materials. 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/m³ | STEL, mg/m³ | Cat/Notices |
|---|---|---|---|
| Naphtha (Petroleum) Hydrotreated Light | 1,640 | 2,050 | Not available |
| Acetone | 1,185 | 2,375 | bio |
| Toluene | 188 | Not available | skin |
| Xylene | 217 | Not available | Not available |
| LPG (butane, propane) | 1,800 | Not available | Not available |

(bio) - Exposure can also be estimated by biological monitoring.

**Emergency Limits (TEEL)** **Temporary Emergency Exposure Limits**

| Material | TEEL-1 | TEEL-2 | TEEL-3 |
|---|---|---|---|
| Naphtha (petroleum), Hydrotreated Light | 1,200 mg/m³ | 6,700 mg/m³ | 40,000 mg/m³ |
| Acetone | Not available | Not available | Not available |
| Toluene | Not available | Not available | Not available |
| Xylene | Not available | Not available | Not available |
| Butane | Not available | Not available | Not available |
| Propane | Not available | Not available | Not available |

**Emergency Limits (IDLH)**

**Immediately Dangerous To Life or Health (IDLH) Values**

| Material | Original IDLH | Revised IDLH |
|---|---|---|
| Naphtha (petroleum), Hydrotreated Light | 2,500 mg/m$^3$ | Not available |
| Acetone | 2,500 ppm (10% LEL) | Not available |
| Toluene | Not available | Not available |
| Xylene | 900 ppm | Not available |
| Butane | 1,600 ppm | Not available |
| Propane | Not available | 2,100 ppm |

**Material Data**

Butane: Odour Threshold Value 2590 ppm (recognition)

Butane in common with other straight chain saturated aliphatic hydrocarbons is not characterised by its toxicity but by its narcosis-inducing effects at high concentrations. It is considered that this limit will protect workers against drowsiness and other narcotic effects.

Butane Odour Safety Factor (OSF) = 0.22

Propane: Odour Safety Factor (OSF) = 0.16

**Additional Information:** Wash hands before eating, drinking and smoking.

**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:** **Eye and face protection:** Safety glasses or goggles.

**Skin Protection:** No special equipment needed for minor exposure to small quantities. For moderate exposures wear general protective light weight latex gloves. For heavy exposures, wear chemical protective (PVC) and safety boots.

**Other Protection:** Protective clothing such as overalls, apron and boots are recommended for moderate or heavy use. Operators insulated from earth may develop static charges sufficient to ignite flammable gas/air mixtures. Avoid by wearing low resistivity outer material.

Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

**Respiratory Protection:** Where the concentration of gas/particulates in the breathing zone exceeds the "Exposure Standard" (or ES), respiratory protection is required**.**

Use Type AX-P filter (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88)

The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator.

Cartridge performance is affected by humidity. Cartridges should be changed after 2 hours of continuous use unless the humidity is less than 75%, when cartridges can be used for 4 hours. Used cartridges should be discarded daily, regardless of the length of time used.

## Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**: Coloured, liquid spray.

**Odour**: Ketone odour.

**Odour Threshold**: Not available.

**pH:** Not applicable.

**Melting Point, °C:** Not available.

**Freezing Point, °C:** Not available.

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**Initial Boiling Point, °C:** 55 (base liquid)

**Boiling Point Range, °C:** 55 – 115 (base liquid)

**Flash Point, °C:** < 0 (propellant)

**Flammability:** Highly flammable liquid and vapour.

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

**Vapour Pressure, kPa:** 300 - 600

**Vapour Density (Air = 1):** > 1

**Relative Density:** 0.76

**Solubility:** Insoluble in water.

**Partition Coefficient:** Not available (n-octanol/water)

**Autoignition Temp, °C:** Not available.

**Decomposition Temp, °C:** Not available.

**Kinematic Viscosity, $mm^2/s$:** Not available.

**Particle Characteristics:** Not available.

## 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:** $LD_{50}$ estimated to be 3,155 mg/kg (based on component mixture, excluding propellant).

**Acute Dermal Toxicity:** $LD_{50}$ estimated to be > 2,000 mg/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.

**Toxicity of Components:**

| Material | Toxicity | Irritation |
|---|---|---|
| Naphtha (petroleum), Hydrotreated Light | Oral (rat) $LD_{50}$ > 4,500 mg/kg<br>Dermal (rabbit) $LD_{50}$ 1,900 mg/kg<br>Inhalation (rat) $LC_{50}$ 29.3 mg/L 4 hr | Slight eye and skin irritant. |
| Acetone | Oral (rat) $LD_{50}$ 3,000 mg/kg<br>Dermal (guinea pig) $LD_{50}$ 7,436 mg/kg<br>Inhalation (rat) $LC_{50}$ 50 mg/L | Moderate eye irritant. |
| Toluene | Oral (rat) $LD_{50}$ 636 mg/kg<br>Dermal (rabbit) $LD_{50}$ > 2,000 mg/kg<br>Inhalation (rat) $LC_{50}$ 49 mg/L 4 hr | Mild eye irritant. |
| Xylene | Oral (rmouse) $LD_{50}$ 4,300 mg/kg<br>Dermal (rabbit) $LD_{50}$ 2,000 mg/kg<br>Inhalation (rat) $LC_{50}$ > 27.6 mg/L | Slight skin irritant.<br>Moderate eye irritant. |
| Hydrocarbon Propellant | Oral (rat) $LD_{50}$ > 10,000 mg/kg<br>Dermal (rabbit) $LD_{50}$ > 10,000 mg/kg<br>Inhalation (rat) $LC_{50}$ 438 mg/L 4 hr | Not a skin or eye irritant. |

Not Available: Applies to data either not available or does not fill the criteria for classification.

**Skin Irritation:** May cause skin irritation. Avoid contact with skin.

**Eye Irritation:** Spray may be irritating to the eye. Avoid contact with eyes.

**Inhalation:** May cause drowsiness or dizziness.

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

**Sensitisation:** Contains a contact sensitiser and may cause an allergic skin reaction in sensitive persons.

**Mutagenicity:** Not expected to be mutagenic.

**Carcinogenicity:** Not expected to be carcinogenic.

**Reproductive toxicity:** Contains a reproductive toxicant.

**Specific Target Organ Toxicity:** Harmful to human target organs (single exposure).

**STOT (Narcotic):** Prolonged inhalation of vapours may cause drowsiness or dizziness.

**Repeated Dose Toxicity:** Repeated prolonged contact 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:** For Hydrocarbons: log Kow 1, BCF ~ 1

| Material | Test | Value | Source |
|---|---|---|---|
| Liquid Product | Not available | Not available | Not available |
| Acetone | Not available | Not available | Not available |
| Naphtha (petroleum) Hydrotreated Light | $LC_{50}$ Fish, 96 hr<br>$EC_{50}$ Crustacean, 48 hr<br>$EC_{50}$ Algae 72 hr | 4.1 mg/L<br>3.0 mg/L<br>> 1 mg/L | EchaChem<br>EchaChem<br>EchaChem |
| Toluene | $LC_{50}$ Fish, 96 hr<br>$EC_{50}$ Crustacean, 48 hr<br>$EC_{50}$ Algae 72 hr | 0.0073 mg/L<br>3.78 mg/L<br>12.5 mg/L | US EPA Ecotox<br>ECETOC<br>US EPA Ecotox |
| Xylene | $LC_{50}$ Fish, 96 hr<br>$EC_{50}$ Crustacean, 48 hr<br>$EC_{50}$ Algae 72 hr | 2.6 mg/L<br>1.8 mg/L<br>3.2 mg/L | EchaChem<br>EchaChem<br>EchaChem |

**Persistence/degradability:** No data available for all ingredients (Air, Water, Soil).

**Bioaccumulation Potential:** No data available for all ingredients

**Mobility in Soil:** No data available for all ingredients.

**Other Adverse Effects:** Components are harmful to aquatic life with long lasting effects.

**Ecotoxicity:** Harmful to aquatic life with long lasting effects.

**Mobility:** Mobility is expected to be low.

**Persistence/degradability:** Not readily biodegradable.

**Bioaccumulation Potential:** Some components are persistent and may bioaccumulate.

## Section 13 – DISPOSAL CONSIDERATIONS

**Material Disposal:** Product wastes are ecotoxic and should be disposed of in accordance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water.

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 or dispose in landfill. Product containers are also considered wastes of the same class of the contents and should be disposed of in accordance with applicable regulations.

If it is a class 6, 8 or 9 it must be disposed by treating it so it is no longer a hazardous substance. If it contains components that are bioaccumulative and not rapidly degradable, it must be treated so that the substance is no longer a hazardous substance.

**Container Recycling:** Recyclable metal - Recycle if possible. Packages which hazardous content have been appropriately treated to remove residual contents may be recycled.

**Workplace:** Send empty cans to a metal recycler, approved aerosol recycler or commercial waste stream.
**Consumer:** Recycle if possible or place empty can in normal household waste stream.

## 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 (Land, Sea and Air)

| Land, Sea, Air | MP |
|---|---|
|  |  |

**Subsidiary Risk:** Not applicable

**Packing Group:** Not applicable

**Marine Pollutant:** Yes

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

**DG Segregation:** This product is classified as a Dangerous Goods. Consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.

## Section 15 – REGULATORY INFORMATION

**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.

**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 (Consolidated 30 September 2022)

## Section 16 – OTHER INFORMATION

**Additional information** Personal Protective Equipment Guidelines: The recommendation for protective equipment contained is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

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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 |
| $LC_{50}$ | Lethal Concentration, 50% / Median Lethal Concentration |
| $LD_{50}$ | Lethal Dose, 50% / Median Lethal Dose |
| LEL | Lower Explosion Limit |
| $mg/m^3$ | 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.