

Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Graphite SPL Aerosol 500ml

Product Code: 7455

Uses: Lubricant for railway track and rail switch plates.

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: HSNO Classifications:

Aerosol Category 1 2.1.2A Extremely flammable aerosol

Acute toxicity Category 4 (dermal 6.1D Acutely toxic (dermal)

Skin irritation Category 2 6.3A Irritating to the skin

Eye irritation Category 2 6.4A Irritating to the eye

Reproductive toxicity Category 2 6.8B Suspected human reproductive or developmental toxicants

STOT (chronic) Category 2 6.9B Harmful to human target organs or systems (chronic)

Aquatic toxicity (Chronic) Category 2 9.1B Ecotoxic in the aquatic environment with long lasting effects









Signal Words: Danger

Hazard Statements

H222 Extremely f	flammable	aerosol.
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H229 Pressurised container: May burst if heated.

H312 Harmful in contact with skinH315 May cause skin irritation.

H319 May cause serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Ref: Graphite SPL Aero 7455 Date: 3.7.23 Supersedes: 1.7.18 Issue No: 4 Page 1 of 6 pages





Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
Heptanes (Aliphatic Hydrocarbons)	64742-49-0	10 - 30
Aromatic Hydrocarbon	1330-20-7	1 - 10
Acetone	67-64-1	1 - 10
2-Propanol	67-63-0	1 - 10
Hydrocarbon Propellant (LPG - Propane, Butane)	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 well with water for fifteen minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Transport to hospital or doctor without delay.

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, 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.

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

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.

Ref: Graphite SPL Aero 7455 Date: 3.7.23 Supersedes: 1.7.18 Issue No: 4 Page 2 of 6 pages





Section 7 – HANDLING AND STORAGE

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

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

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

Use outdoors or in a well-ventilated area. Avoid breathing spray or vapours. 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 ³	STEL, mg/m ³
Heptanes	1,620	2,05
Aromatic Hydrocarbon	217	-
Acetone (bio)	1,185	2,375
2-Propanol	983	1,230
Hydrocarbon Propellant (LPG - Propane, Butane)	1,800	-

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: 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: Black spray with characteristic odour.

pH: Not applicable.Vapour Density: > 1 (Air =1)

Vapour Pressure, kPa: 300 - 600

Boiling Point, °C: About 70

Melting Point, °C:

Specific Gravity:

About 0.85

Flash Point, °C:

Explosion Limit, % v/v:

LEL 1.2% UEL 9.5%

Autoignition Temp, °C: > 200

Solubility: Not soluble in water.

Ref: Graphite SPL Aero 7455 Date: 3.7.23 Supersedes: 1.7.18 Issue No: 4 Page 3 of 6 pages





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 > 5,000 mg/kg (based on component mixture, excluding propellant).

Acute Inhalation Toxicity: LC₅₀ 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: May cause serious eye irritation. 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: Not expected to be a contact or respiratory sensitiser.

Carcinogenicity: Product is not a suspected human carcinogen.

Reproductive toxicity: Product contains a suspected 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. Accumulation in the human

body may occur and may cause some concern following repeated or long-term occupational exposure.

Section 12 - ECOTOXICITY INFORMATION

Ecotoxicity: Harmful to aquatic life with long lasting effects.

Mobility: Some components have low mobility.

Persistence/degradability: Product is largely biodegradable.

Bioaccumulation Potential: Some components 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 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.

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

Ref: Graphite SPL Aero 7455 Date: 3.7.23 Supersedes: 1.7.18 Issue No: 4 Page 4 of 6 pages





Transport Labels Required: Class 2 Flammable (Land, Sea, Air), EHSM (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

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 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.

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 specifiedOEL Occupational Exposure LimitPEL Permissible Exposure Limit

Ref: Graphite SPL Aero 7455 Date: 3.7.23 Supersedes: 1.7.18 Issue No: 4 Page 5 of 6 pages



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: Graphite SPL Aero 7455 Date: 3.7.23 Supersedes: 1.7.18 Issue No: 4 Page 6 of 6 pages