SAFETY DATA SHEET

Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Grease Eater Liquid**

Product Code: 7888,7889 & 7880

Uses: Water based cleaner and degreaser.

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:
Eye irritation Category 2
Skin sensitisation Category 1

HSNO Classifications:
6.4A Causes serious eye irritation
6.5B Contact sensitiser

Signal Words: Warning

Hazard Statements

H319 Irritating to the eye.
H317 May cause an allergic skin reaction.

Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
2-Butoxyethanol	111-76-2	1 - 10
Sodium Metasilicate	6834-92-0	1 - 10
Dipentene	138-86-3	1 - 10
Ethoxylated alcohols	Proprietary	1 - 10
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 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.

SAFETY DATA SHEET

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: 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: Extremely flammable liquid. Liquid and vapour are highly flammable.

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.

Hazchem Code: 3YE

Section 6 – ACCIDENTAL RELEASE MEASURES

Minor spills: Spills are slippery. Clean up all spills immediately. 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. Remove all sources of ignition. 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. Spills are slippery.

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.

This product is highly flammable. Keep away from heat and open flames. No smoking. Do not use near an open flame or other ignition source.

Avoid personal contact with liquid. Use in a well-ventilated area. Avoid breathing vapour. Wash hands with soap and water after handling and before eating, drinking and smoking. Use good occupational work practice. Avoid physical damage to containers.

Storage: Store in a well ventilated, cool, dry place. Keep away from heat, sparks, and flame. Keep container tightly closed. Do not store in basements or areas where vapours may accumulate. Keep away from heat, sparks, and flame. Store away from incompatible materials.

SAFETY DATA SHEET

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
Isohexane	1,200	-

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: Clear, almost colourless liquid.

Odour: Slight hydrocarbon odour.

Odour Threshold: Not available.

pH: Not applicable.

Melting Point, °C: Not available.

Freezing Point, °C: Not available.

Initial Boiling Point, °C: 55

Boiling Point Range, °C: 55 - 61

Flash Point, °C: - 23

Flammability: Highly flammable liquid and vapour.

Explosion Limit, % v/v: **LEL** 1.0% **UEL** 7.4%

Vapour Pressure, kPa: 23

Vapour Density (Air = 1): > 1

Relative Density: 0.65

Solubility: Not soluble in water.

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

Autoignition Temp, °C: Not available.

Decomposition Temp, °C: Not available.

Kinematic Viscosity, mm²/s: Not available.

Particle Characteristics: Not available.

Section 10 – STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical Stability: Product is considered stable under normal conditions of use. Hazardous polymerisation will not occur.

Possible Hazardous Reactions: Avoid reaction with oxidising agents.

Conditions to Avoid: Avoid elevated temperatures, open flames or ignition sources.

Incompatible Materials: Oxidisers

Hazardous Decomposition Products: Combustion products include carbon monoxide, carbon dioxide and other pyrolysis products typical of burning organic material.

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 > 5,000 mg/kg (based on component mixture). Not considered to be toxic.

Ingestion may be harmful. Significant level of poisoning may cause respiratory depression and unconsciousness which can be fatal.

Acute Dermal Toxicity: LD_{50} estimated to be > 5,000 mg/kg (based on component mixture). Not considered to be toxic.

Acute Inhalation Toxicity: LC_{50} estimated to be > 20 mg/L, Rat 4 hour (based on component mixture). Not considered to be toxic.

High concentrations may cause drowsiness or dizziness and lead to central nervous system depression resulting in headaches and nausea.

Aspiration Hazard: May be fatal if swallowed and enters airways.

Toxicity of Components:

Material	Toxicity	Irritation
Isohexane	Dermal (rabbit) LD_{50} >5,000 mg/kg Oral (rat) LD_{50} > 5,000 mg/kg	Not available

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

Skin Irritation: May cause skin irritation and defatting of the skin which can lead to dermatitis. Avoid contact with skin.

Eye Irritation: May cause serious eye irritation. Avoid direct contact with eyes.

Inhalation: High concentrations of vapour may cause drowsiness or dizziness.

Respiratory Irritation: Not expected to be irritant.

Sensitisation: 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 toxic.

STOT, single exposure: Not available.

STOT, repeated exposure: Not available.

STOT (Narcotic): Not expected to be narcotic. High concentrations may cause drowsiness or dizziness.

SAFETY DATA SHEET

Repeated Dose Toxicity: Prolonged and repeated contact by inhalation is not expected to produce cumulative health effects. Chronic dermal exposure may result in irritant contact dermatitis.

Hydrocarbon solvents have few toxicologically important effects. They can cause chemical pneumonitis if aspirated into the lung. Volatile solvents can cause acute CNS effects and respiratory irritation at concentrations above recommended exposure levels.

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
Isohexane	EC_{50} 48 hr daphnia magna	4.2 mg/L	EchaChem
	EC_{50} 96 hr green algae	4.4 mg/L	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.

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 handled by a suitable disposal facility. 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 plastic – Recycle if possible. Packages which hazardous content have been appropriately treated to remove residual contents removed may be recycled.

Workplace: Send empty containers to a plastics recycler or commercial waste stream.

Section 14 – TRANSPORT INFORMATION

Transport: Classified as a Dangerous Good for transport purposes.

Proper Shipping Name: HEXANES

UN Number: 1208

Dangerous Goods Class: 3

Transport Labels Required: Class 3 Flammable, Marine Pollutant (Land, Sea and Air)

SAFETY DATA SHEET

Subsidiary Risk:	Not applicable
Packing Group:	II
Marine Pollutant:	Yes
EMS Number	F-E, S-D
Special Provisions:	No data available.
Limited Quantity:	1 L
DG Segregation:	Store away from Classes 2, 3.2 and 4. 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

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).
EPA Approval Number:	HSR002603 Lubricants (Flammable) Group Standard 2020. This substance is to be managed using the conditions specified in the applicable Group Standard.
Hazardous Subs Location:	Hazard Class 3.1 (Category 2) Flammable Liquids: Quantity Allowed – 100 Litres (closed containers > 5L).
Certified Handler:	Not applicable.
Tracking Controls:	Not applicable.
Inventory Listing	NZIOC **(**New Zealand Inventory of Chemicals); All components of this product are listed.
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
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

SAFETY DATA SHEET

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 to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Chemz Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact their Chemz representative or Chemz Limited at the contact details on page 1. Chemz Limited's responsibility for the material as sold is subject to the terms and conditions of sale.

End of sds.