

## Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Zap Engine Degreaser Liquid

**Product Code:** 7868 5L, 7869 20L

**Uses:** Multipurpose engine degreaser and water soluble cleaner.

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:

Flammable Liquids Category 3 3.1C Flammable Liquids: medium hazard

Aspiration hazard Category 1 6.1E Acutely toxic (aspiration)
Eye irritation Category 2 6.4A Irritating to the eye

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







Signal Words: Danger

#### **Hazard Statements**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

## Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
Kerosene	8008-20-6	30 - 60
Naphtha (Petroleum) Hydrotreated	64742-82-1	30 - 60
Nonyl Phenol Ethoxylate	Proprietary	< 10
Butoxyethanol	111-76-2	< 10
Non Hazardous Ingredients	-	to 100%

# Section 4 – FIRST AID MEASURES

If medical advice is needed, have product container or label at hand.  $% \label{eq:container} % \label{eq:container} %$ 



If exposed or if you feel unwell: Call a POISON CENTRE or doctor.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTRE or doctor. Do NOT induce vomiting. Obtain

immediate medical attention.

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.

**Skin contact:** IF ON SKIN: Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation or rash

occurs: 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.

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

## Section 5 – FIRE-FIGHTING MEASURES

General fire hazards: Flammable liquid and vapour.

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. 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. Do not discharge extinguishing waters into the aquatic

environment.

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: 3Y

## Section 6 - ACCIDENTAL RELEASE MEASURES

Minor spills: 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. 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.

This product is flammable. Keep away from heat and open flames. No smoking. Do not use near an open flame or other ignition source. Gloves and eye protection are recommended. Keep container tightly

closed. Avoid release to the environment.

Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary

measures against static discharge.

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

**Storage:** Store in a well ventilated, cool, dry place. Keep away from heat, sparks, and flame. Keep container tightly

closed. 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/m <sup>3</sup>	STEL, mg/m <sup>3</sup>	Cat/Notices
Kerosene	350 mg/m <sup>3</sup>	Not available	Not available
Naphtha (Petroleum) Hydrotreated	525 mg/m <sup>3</sup>	Not available	Not available
Butoxyethanol	121 mg/m <sup>3</sup>	Not available	Skin
Nonyl Phenol Ethoxylate	Not available	Not available	Not available

#### **Emergency Limits (TEEL)**

#### **Temporary Emergency Exposure Limits**

Material	TEEL-1	TEEL-2	TEEL-3
Kerosene	290 mg/m <sup>3</sup>	1,100 mg/m <sup>3</sup>	6,600 mg/m <sup>3</sup>
Naphtha (Petroleum) Hydrotreated	300 ppm	395 ppm	395 ppm
Butoxyethanol	60 ppm	120 ppm	700 ppm
Nonyl Phenol Ethoxylate	Not available	Not available	Not available

<sup>\*\*</sup> indicates value is 50 - 99% of LEL, \*\*\* indicates value is 100% or more of LEL

### **Emergency Limits (IDLH)**

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

Material	Original IDLH	Revised IDLH
Kerosene	Not available	Not available
Naphtha (Petroleum) Hydrotreated	Not available	Not available
Butoxyethanol	700 ppm	Not available
Nonyl Phenol Ethoxylate	Not available	Not available

Additional Information:

Wash hands thoroughly after handling.

**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 are recommended.

**Skin Protection:** No special equipment needed for minor exposure to small quantities. For moderate exposures, wear general protective light weight latex gloves or chemical resistant gloves.

**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.

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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: 150

**Boiling Point Range, °C:** 150 – 200

Flash Point, °C: 42

Flammability: Flammable liquid and vapour.

Explosion Limit, % v/v: LEL 1.0% UEL 6.0%

Vapour Pressure, kPa: Not available.

Vapour Density (Air = 1): > 1
Relative Density: 0.84

Solubility: Forms an emulsion with 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.

 $\label{possible Hazardous Reactions:} \textbf{Avoid reaction with oxidising agents.}$ 

**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). Acute Dermal Toxicity:  $LD_{50}$  estimated to be > 5,000 mg/kg (based on component mixture).

Acute Inhalation Toxicity:  $LC_{50}$  estimated to be > 20 mg/L, Rat 4 hour (based on component mixture).

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

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### **Toxicity of Components:**

Material	Toxicity	Irritation
Kerosene	Oral (rat) $LD_{50} > 5,000$ mg/kg Dermal (rabbit) $LD_{50} > 5,000$ mg/kg Inhalation (rat) $LC_{50} > 20$ mg/L 4 hr	Eye irritant. Slight skin irritant.
Naphtha (Petroleum) Hydrotreated	Oral (rat) $LD_{50}$ 4,500 mg/kg Dermal (rabbit) $LD_{50} > 5,000$ mg/kg Inhalation (rat) $LC_{50} > 20$ mg/L 4 hr	Eye irritant.
Butoxyethanol	Oral (rat) $LD_{50}$ 1,300 mg/kg Dermal (rabbit) $LD_{50}$ > 2,000 mg/kg Inhalation (rat) $LC_{50}$ > 4.9 mg/L 4 hr	Moderate skin irritant. Moderate eye irritant.
Nonyl Phenol Ethoxylate	Oral (rat) LD <sub>50</sub> 1,378 mg/kg Dermal (rabbit) LD <sub>50</sub> > 5,000 mg/kg	Moderately irritating to the skin. Moderately irritating to the eyes.

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

**Skin Irritation:** Prolonged/repeated contact may cause defatting of the skin and dermatitis.

Eye Irritation:May cause serious eye irritation. Avoid direct contact with eyes.Inhalation:High concentrations of vapour may cause drowsiness or dizziness.Respiratory Irritation:Inhalation of vapours may cause irritation to the respiratory system.

**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.

**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, mg/L
Liquid Product	Not available	Not available
Kerosene	Fish LC <sub>50</sub> , 96 hr Crustacean EC <sub>50</sub> , (Daphnia 48 hr) Algae EC <sub>50</sub> , 72 hr	10 – 100 mg/L 10 – 100 mg/L 1 – 10 mg/L
Naphtha (Petroleum) Hydrotreated	Fish, Crustacean, Algae toxicity: Non-hazardous.	> 100 mg/L



1	Fish LC <sub>50</sub> (Oncorhynchus mykiss, 96 hr) Crustacean EC <sub>50</sub> (Water Flea, 48 hr) Algae EC <sub>50</sub> (Pseudokirchneriella subcapitata 72 hr)	1,474 mg/L 1,550 mg/L 1,840 mg/L
Nonyl Phenol Ethoxylate	Fish LC <sub>50</sub> 96 hr Crustacean EC <sub>50</sub> (Daphnia 48 hr)	5 – 10 mg/L 1 – 10 mg/L

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.

**Aquatic Ecotoxicity:** Components are harmful to aquatic life with long lasting effects.

Other Adverse Effects: No data available.

### 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:** FLAMMABLE LIQUID, N.O.S.

**UN Number:** 1993 **Dangerous Goods Class:** 3

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





**Subsidiary Risk:** Not applicable

**Packing Group:** Ш **Marine Pollutant:** Yes **EMS Number** F-E, S-D

**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.

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## Section 15 - REGULATORY INFORMATION

EPA Approval Number: HSR002528 Cleaning Products (Flammable) Group Standard 2020.

**EPA Hsno Controls:** Refer to <a href="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.

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.

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<sub>50</sub> Lethal Concentration, 50% / Median Lethal Concentration

LD<sub>50</sub> 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 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 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.