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**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

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**1.1 Product identifier**

**Product name** ZENOX MARINE GRADE PENETRATING LUBE (AEROSOL)  
**Synonyms** MARINE GRADE PENETRATING LUBE • Z009 - PART NUMBER • ZENOX WD AEROSOL (FORMERLY)

**1.2 Uses and uses advised against**

**Uses** DEWATERING AGENT

**1.3 Details of the supplier of the product**

**Supplier name** ZENOX LUBRICANTS  
**Address** PO Box 3189, Yokine, WA, 6060, AUSTRALIA  
**Telephone** 1800 4 93669  
**Email** [info@zenox.com.au](mailto:info@zenox.com.au)  
**Website** <http://www.zenox.com.au>

**1.4 Emergency telephone numbers**

**Emergency** 1800 4 93669

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**2. HAZARDS IDENTIFICATION**

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**2.1 Classification of the substance or mixture**

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**Physical Hazards**

Aerosols - Flammable: Category 1  
Aerosols - Pressurised: Category 1

**Health Hazards**

Aspiration Hazard: Category 1

**Environmental Hazards**

Not classified as an Environmental Hazard

**2.2 GHS Label elements**

**Signal word** DANGER

**Pictograms****Hazard statements**

H222 Extremely flammable aerosol.  
H229 Pressurized container: may burst if heated.  
H304 May be fatal if swallowed and enters airways.

**Prevention statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.

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### Response statements

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.  
P331 Do NOT induce vomiting.

### Storage statements

P405 Store locked up.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C.

### Disposal statements

P501 Dispose of contents/container in accordance with relevant regulations.

### 2.3 Other hazards

No information provided.

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## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

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### 3.1 Substances / Mixtures

| Ingredient                     | CAS Number | EC Number | Content   |
|--------------------------------|------------|-----------|-----------|
| GAS OIL, BLEND                 | 64741-44-2 | 265-044-7 | 50 to 70% |
| BUTANE                         | 106-97-8   | 203-448-7 | 10 to 20% |
| PARAFFIN OIL (SOLVENT REFINED) | -          | -         | 10 to 20% |
| 2-BUTOXYETHANOL                | 111-76-2   | 203-905-0 | <10%      |
| PROPANE                        | 74-98-6    | 200-827-9 | <10%      |
| PETROLEUM WAX                  | -          | -         | <10%      |

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## 4. FIRST AID MEASURES

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### 4.1 Description of first aid measures

**Eye** If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

**Inhalation** If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.

**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

**Ingestion** For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting. Ingestion is considered unlikely due to product form.

**First aid facilities** Normal washroom facilities should be available.

### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

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## 5. FIRE FIGHTING MEASURES

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### 5.1 Extinguishing media

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

### 5.2 Special hazards arising from the substance or mixture

Extremely flammable aerosol. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Aerosol may explode at temperatures exceeding 50°C. Eliminate all ignition sources, including cigarettes, open flames, spark producing switches/tools, heaters, pilot lights, mobile phones, etc when handling. Aerosol cans may explode above 50°C.

### 5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

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### 5.4 Hazchem code

2Y  
2 Fine Water Spray.  
Y Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible.

### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

### 6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool (< 50°C), dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure aerosol containers/ cans are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for damaged/ leaking containers. Large storage areas should have appropriate fire protection systems.

### 7.3 Specific end uses

No information provided.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure standards

| Ingredient             | Reference      | TWA        |                   | STEL |                   |
|------------------------|----------------|------------|-------------------|------|-------------------|
|                        |                | ppm        | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| 2-Butoxyethanol (EGBE) | SWA [AUS]      | 20         | 96.9              | 50   | 242               |
| 2-Butoxyethanol (EGBE) | SWA [Proposed] | 10         | 49                | 50   | 242               |
| Butane                 | SWA [AUS]      | 800        | 1900              | --   | --                |
| Butane                 | SWA [Proposed] | --         | --                | 1000 | 2370              |
| Mineral Oil Mist       | SWA [AUS]      | --         | 5                 | --   | --                |
| Paraffin wax (fume)    | SWA [AUS]      | --         | 2                 | --   | --                |
| Propane                | SWA [AUS]      | Asphyxiant |                   |      |                   |

#### Biological limits

| Ingredient      | Reference | Determinant  | Sampling Time | BEI                 |
|-----------------|-----------|--|---------------|---------------------|
| 2-BUTOXYETHANOL | ACGIH BEI | Butoxyacetic acid (BAA) in urine (with hydrolysis) | End of shift  | 200 mg/g creatinine |

### 8.2 Exposure controls

#### Engineering controls

Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Flammable vapours may accumulate in poorly ventilated or confined areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.

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### PPE

|                    |   |
|--------------------|---|
| <b>Eye / Face</b>  | Wear splash-proof goggles.  |
| <b>Hands</b>       | Wear nitrile or neoprene gloves.  |
| <b>Body</b>        | When using large quantities or where heavy contamination is likely, wear coveralls.               |
| <b>Respiratory</b> | At high vapour levels, wear a Type A-Class P1 (Organic gases/vapours and Particulate) respirator. |



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties

|                                  |                                       |
|----------------------------------|---------------------------------------|
| <b>Appearance</b>                | COLOURLESS LIQUID (AEROSOL DISPENSED) |
| <b>Odour</b>                     | STRONG SOLVENT ODOUR                  |
| <b>Flammability</b>              | HIGHLY FLAMMABLE PROPELLANT           |
| <b>Flash point</b>               | -140°C to 23°C (Propellant)           |
| <b>Boiling point</b>             | NOT AVAILABLE                         |
| <b>Melting point</b>             | NOT AVAILABLE                         |
| <b>Evaporation rate</b>          | NOT AVAILABLE                         |
| <b>pH</b>                        | NOT AVAILABLE                         |
| <b>Vapour density</b>            | NOT AVAILABLE                         |
| <b>Solubility (water)</b>        | INSOLUBLE                             |
| <b>Vapour pressure</b>           | NOT AVAILABLE                         |
| <b>Upper explosion limit</b>     | 9.6% (Propellant)                     |
| <b>Lower explosion limit</b>     | 1.5 % (Propellant)                    |
| <b>Partition coefficient</b>     | NOT AVAILABLE                         |
| <b>Autoignition temperature</b>  | 494°C to 600°C                        |
| <b>Decomposition temperature</b> | NOT AVAILABLE                         |
| <b>Viscosity</b>                 | NOT AVAILABLE                         |
| <b>Explosive properties</b>      | NOT AVAILABLE                         |
| <b>Oxidising properties</b>      | NOT AVAILABLE                         |
| <b>Odour threshold</b>           | NOT AVAILABLE                         |

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## 10. STABILITY AND REACTIVITY

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### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

### 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), heat and ignition sources.

### 10.6 Hazardous decomposition products

May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

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## 11. TOXICOLOGICAL INFORMATION

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### 11.1 Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met. This product may have the potential to cause

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adverse health effects if intentionally misused (e.g. deliberately inhaling contents).

**Information available for the ingredients:**

| Ingredient                     | Oral LD50                   | Dermal LD50           | Inhalation LC50                       |
|--------------------------------|-----------------------------|-----------------------|---------------------------------------|
| GAS OIL, BLEND                 | --                          | --                    | 1700 mg/m <sup>3</sup> /4 hours (rat) |
| BUTANE                         | Study not feasible          | Study not feasible    | 658000 mg/m <sup>3</sup> /4H (rat)    |
| PARAFFIN OIL (SOLVENT REFINED) | > 5000 mg/kg (rat)          | > 2000 mg/kg (rabbit) | --                                    |
| 2-BUTOXYETHANOL                | ~1200 mg/kg (rat)<br>(ECHA) | 220 mg/kg (rabbit)    | 450 mg/L/4hrs (rat)                   |
| PROPANE                        | Study not feasible          | Study not feasible    | > 800000 ppm/15M (rat)                |

|                                 |  |
|---------------------------------|--|
| <b>Skin</b>                     | Not classified as an irritant. Contact may result in mild irritation, drying and defatting of the skin, rash and dermatitis.   |
| <b>Eye</b>                      | Not classified as an eye irritant. Contact may cause discomfort, lacrimation and redness.  |
| <b>Sensitisation</b>            | Not classified as causing skin or respiratory sensitisation.   |
| <b>Mutagenicity</b>             | Not classified as a mutagen.   |
| <b>Carcinogenicity</b>          | Not classified as a carcinogen.  |
| <b>Reproductive</b>             | Not classified as a reproductive toxin.  |
| <b>STOT - single exposure</b>   | Over exposure may result in dizziness and nausea.  |
| <b>STOT - repeated exposure</b> | Not classified as causing organ damage from repeated exposure.   |
| <b>Aspiration</b>               | Ingestion is considered unlikely due to product form. However, if liquid component is ingested, aspiration into the lungs may cause chemical pneumonitis and pulmonary oedema. |

**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

No information provided.

**12.2 Persistence and degradability**

No information provided.

**12.3 Bioaccumulative potential**

No information provided.

**12.4 Mobility in soil**

No information provided.

**12.5 Other adverse effects**

No information provided.

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

**Waste disposal** For small amounts, absorb contents with sand or similar and dispose of to an approved landfill site. Do not puncture or incinerate aerosol cans. Contact the manufacturer/supplier for additional information (if required).

**Legislation** Dispose of in accordance with relevant local legislation.

**14. TRANSPORT INFORMATION**

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



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|                                    | LAND TRANSPORT (ADG) | SEA TRANSPORT (IMDG / IMO) | AIR TRANSPORT (IATA / ICAO) |
|------------------------------------|----------------------|----------------------------|-----------------------------|
| <b>14.1 UN Number</b>              | 1950                 | 1950                       | 1950                        |
| <b>14.2 Proper Shipping Name</b>   | AEROSOLS             | AEROSOLS                   | AEROSOLS                    |
| <b>14.3 Transport hazard class</b> | 2.1                  | 2.1                        | 2.1                         |
| <b>14.4 Packing Group</b>          | None allocated.      | None allocated.            | None allocated.             |

**14.5 Environmental hazards**

Not a Marine Pollutant.

**14.6 Special precautions for user**

|                     |          |
|---------------------|----------|
| <b>Hazchem code</b> | 2Y       |
| <b>GTEPG</b>        | 2D1      |
| <b>EmS</b>          | F-D, S-U |

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**15. REGULATORY INFORMATION**

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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

|                           |   |
|---------------------------|---|
| <b>Poison schedule</b>    | A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). |
| <b>Classifications</b>    | Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).                    |
| <b>Inventory listings</b> | <b>AUSTRALIA: AICC (Australian Inventory of Industrial Chemicals)</b><br>All components are listed on AICC, or are exempt.                                      |

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**16. OTHER INFORMATION**

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**Additional information** AEROSOL CANS may explode at temperatures approaching 50°C.

**RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, 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: form of product; 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.

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|                      |                   |   |
|----------------------|-------------------|---|
| <b>Abbreviations</b> | ACGIH             | American Conference of Governmental Industrial Hygienists                                       |
|                      | CAS #             | Chemical Abstract Service number - used to uniquely identify chemical compounds                 |
|                      | CNS               | Central Nervous System  |
|                      | EC No.            | EC No - European Community Number   |
|                      | EMS               | Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)                   |
|                      | GHS               | Globally Harmonized System  |
|                      | GTEPG             | Group Text Emergency Procedure Guide  |
|                      | IARC              | International Agency for Research on Cancer   |
|                      | LC50              | Lethal Concentration, 50% / Median Lethal Concentration   |
|                      | LD50              | Lethal Dose, 50% / Median Lethal Dose   |
|                      | mg/m <sup>3</sup> | Milligrams per Cubic Metre  |
|                      | OEL               | Occupational Exposure Limit   |
|                      | pH                | relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). |
|                      | ppm               | Parts Per Million   |
|                      | STEL              | Short-Term Exposure Limit   |
|                      | STOT-RE           | Specific target organ toxicity (repeated exposure)  |
|                      | STOT-SE           | Specific target organ toxicity (single exposure)  |
|                      | SUSMP             | Standard for the Uniform Scheduling of Medicines and Poisons                                    |
|                      | SWA               | Safe Work Australia   |
|                      | TLV               | Threshold Limit Value   |
|                      | TWA               | Time Weighted Average   |

**Report status** This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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