



# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Diesel Power Up  
Other Names: Diesel MAX  
Product Code: s2222  
Recommended Use: Engine oil  
Supplier: Smith Lubricants  
Street Address: 26 Hall Street  
Texas, Queensland 4385  
AUSTRALIA  
Telephone Number: +61 427 274 152  
Chemical Nature: Petroleum-derived severely refined mineral-base product in which the polycyclic aromatic hydrocarbons (PAC or PAH) content, measured by IP 346 is less than 3%

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## 2. HAZARDS IDENTIFICATION

### Statement of Hazardous Nature

This material is classified as: Not classified as hazardous according to criteria of Safe Work Australia SWA. Classified as Not A Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code)

Risk Phrases: Not hazardous - No criteria found.  
Safety Phrases: S23, S24/25: Do not breathe mists. Avoid contact with skin and eyes  
SUSMP Classification: None allocated  
ADG Classification: None allocated. Not a Dangerous Good under the ADG Code.  
UN Number: None allocated

## Emergency Overview

**Physical Description & Colour:** Clear yellow to Amber Liquid

**Odour:** Characteristic odour

**Major Health Hazards:** No significant risk factors have been found for this product.

## Potential Health Effects

**Inhalations:**



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**Short Term Exposure:** Available data indicates that this product is not harmful. However, the product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

**Long Term Exposure:** No data for health effects associated with long term inhalation

## **Skin Contact:**

**Short Term Exposure:** Available data indicates that this product is not harmful. It should present no hazards in normal use. In addition, the product is unlikely to cause any discomfort in normal use.

**Long Term Exposure:** No data for health effects associated with long term skin exposure

## **Eye Contact:**

**Short Term Exposure:** This product may be irritating to the eyes, but is unlikely to cause anything more than mild transient discomfort.

**Long Term Exposure:** No data for health effects associated with long term eye exposure.

## **Ingestion**

**Short Term Exposure:** Significant oral exposure is considered to be unlikely. This product, while believed to be not harmful, is likely to cause headaches and gastric disturbance such as nausea and vomiting if ingested in significant quantities. This product is unlikely to cause any irritation problems in the short or long term.

**Long Term Exposure:** No data for health effects associated with long term ingestion

## **Carcinogen Status:**

**SWA:** No significant ingredient is classified as carcinogenic by SWA

**NTP:** No significant ingredient is classified as carcinogenic by NTP

**IARC:** No significant ingredient is classified as carcinogenic by IARC



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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Ingredient	CAS No.	Conc, %	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Mineral oil group 2	8042-47-5	>90	5(mist)	not set
Zinc alkyl dithiophosphate	68649-42-3	<0.86	not set	not set
Branded alkylphenol	74499-35-7	<0.14	not set	not set
Calcium branched alkylphenol	132752-19-3	<0.14	not set	not set

This is a commercial product whose exact ratio of components may vary slightly

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5-day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should never be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times a day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

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## 4. FIRST-AID MEASURES

### General Information:

You should call the Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is: phone Australia 131 126; New Zealand 0800 764 766) and is available at all times. Have this MSDS with you when you call.

### Inhalation:

No first aid measure is normally required. However, if annihilation has occurred, and irrigation have developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists for more than about 30 minutes, seek medical advice.

### Skin Contact:

Gently blot away excess liquid. Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until the chemical is removed.

### Eye Contact:

Quickly and gently blot material from the eyes. No effects are expected. If irritation does occur, flush contaminated eyes with lukewarm, gently flowing water for 5 minutes or until the chemical is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if the exposed person is wearing contact lenses.



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## Ingestion:

If the product is swallowed or gets in the mouth, do NOT induce vomiting. Wash your mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

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## 5. FIRE-FIGHTING MEASURES

**Fire and Explosion Hazards:** This product is classified as a C2 combustible product. There is little risk of an explosion from this product if commercial quantities are involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Vapors from this product are heavier than air and may accumulate in sumps, pits, and other low-lying spaces, forming potentially explosive mixtures. They may also flashback considerable distances. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. There may be highly dangerous if inhaled in confined spaces or at high concentrations.

**Extinguishing Media:** Suitable extinguishing media are carbon dioxide, dry chemical powder, foam, water fog.

### Fire fighting:

If a significant quantity of this product is involved in a fire, call the fire brigade.

**Flashpoint:** 235°C , ASTM D92

**Upper Flammability Limit:** No data

**Lower Flammability Limit:** No data

**Autoignition Temperature:** >250°C (ASTEM E 659-78) This temperature may be significantly lower under particular conditions (slow oxidation on finely divided materials).

**Flammability Class** C2

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## 6. ACCIDENTAL RELEASE MEASURES

### Accidental release:

Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or watercourses. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapors or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this



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product. However, if you have any doubts consult the Australian Standard mentioned below (section 8). Otherwise, not normally necessary. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If the spill is too large or if absorbent material is not available, try to create a dike to stop material from spreading or going into drains or waterways. Sweep up and shovel or collect recoverable products into labeled containers for recycling or salvage, and dispose of them promptly. Can be slippery on floors, especially when wet. Recycle containers wherever possible after careful cleaning. After spills, wash the area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for an approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of the nature of contamination when sending contaminated clothing to laundry.

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## 7. HANDLING AND STORAGE

### Handling:

Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under “Storage” should be followed during handling in order to minimise risks to person using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

### Storage:

Note that this product is combustible and therefore, for storage, meets the definition of Dangerous Goods in some States. If you store large quantities (tonnes) of such products, we suggest that you consult your State’s Dangerous Goods authority in order to clarify your obligations regarding their storage.

Store packages of this product in a cool place. Make sure that containers of this product are kept tightly closed. Keep containers of this product in a well-ventilated area. Make sure that the product does not come into contact with substances listed under ‘incompatibilities’ in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

The following Australian Standards will provide general advice regarding safety clothing and equipment:



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Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

<b>SWA Exposure Limites</b>	<b>TWA (mg/m<sup>3</sup>)</b>	<b>STEL (mg/m<sup>3</sup>)</b>
Mineral Oil	5 (mist)	not set

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation:** This product should only be used in a well-ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

**Eye protection:** Eye protection such as protective glasses or google sis recommended when this product is being used.

### **Skin Protection:**

The information at hand indicated that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow length) when skin contact is likely.

**Protective Material Types:** We suggest that protective clothing be made from the following materials: Rubber - PVC

**Respirator:** Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above. Otherwise, not normally necessary.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow to amber liquid
Odour	Characteristic odour
Boiling point/range	Not available
Freezing/Melting Point (°C)	No specific data
Volatiles	No data
Vapour Pressure	No data
Relative Vapour Density	No data
Specific Gravity	0.875 at 15°C
Solubility in Water	Insoluble
pH:	No data
Volatility:	No data
Odor Threshold	No data
Evaporation rate:	No data
Coeff Oil/Water Distribution	No data
Viscosity:	Approx 16.5mm <sup>2</sup> /sec at 100°C
Autoignition temp:	>250°C

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## 10. STABILITY AND REACTIVITY

Reactivity:	This product is unlike to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
Conditions to avoid:	This product should be kept in a cold place, preferable below 30°C. Keep containers tightly closed. Keep containers and surrounding areas well ventilated.
Incompatible materials:	Strong oxidising agents.
Fire Decompositions:	Combustion forms carbon dioxide, and if incomplete, carbon monoxide and smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstance, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. May form oxides of sulfur ( sulfure dioxide is a respiratory hazard and aother suflur compounds. Most will have a foul odour. May form oxides of phosphorous and other phosphorous compounds. Small quantities of zinc and calcium compounds. Carbon monoxide poisoning produces headache, weakness,nausea, dizziness, confusion, dimness of vision, disturbance of judgement and unconsciousness followed by coma and death.
Polymerisations:	Polymerisation reactions are unlikely; they are not expected to occur.

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## 11. TOXICOLOGICAL INFORMATION

### Local Effects:

**Target Organs:** There is no data to hand indicating any particular target organs

### Classification of Hazardous Ingredients

Ingredient	Risk Phase
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No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.



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<b>Inhalation:</b>	No classified. Inhalation of vapors or aerosols in high concentrations may cause irritation of the respiratory system.
<b>Ingestion:</b>	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhoea
<b>Skin contact:</b>	Risk is unlikely under normal conditions of use
<b>Sensitization:</b>	No data
<b>Carcinogenicity:</b>	During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water

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## 12. ECOLOGICAL INFORMATION

<b>Mobility:</b>	<b>Air:</b> Loss by evaporation is limited <b>Soil:</b> Given its physical and chemical characteristics, the product generally shows low soil mobility <b>Water:</b> Insoluble. This product spreads on the surface of the water.
<b>Zinc alkyl dithiophosphate</b>	EC <sub>50</sub> Daphnia magna (48h) 1 - 1.5 mg/l LC <sub>50</sub> Pimephales promelas (static) (96h) 1.0-5.0 mg/L LC <sub>50</sub> Pimephales promelas (semi-static) (96h) 10.0-35.0 mg/L

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## 13. DISPOSAL CONSIDERATIONS

### Disposal methods:

This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the



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product by filtration, distillation or some other means. If neither of these options is suitable, consider controlled incineration, or landfill.

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## 14. TRANSPORTATION INFORMATION

**ADG Code:** This product is NOT Classified as a Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code). No special transport conditions are necessary unless required by other regulations.

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## 15. REGULATORY INFORMATION

**AICS:** All fo the significant ingredients in this formulation are compliant with NICNAS regulations.

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## 16. OTHER INFORMATION

**This MSDS contains only safety-related information. For other data see product literature**

**Acronyms:**

<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Rail and Road (7th Edition)
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>SWA</b>	Safe Work Australia, Formally ASCC & NOHSC
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
<b>IARC</b>	International Agency for Research on Cancer
<b>NOS</b>	Not otherwise specified
<b>NTP</b>	National Toxicology Program (USA)
<b>R-Phase</b>	Risk Phrase
<b>SUSMP</b>	Standard for the Unifrom Scheduling of Medicines & Poisons
<b>UN Number</b>	United Nations Number

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