

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Engine Up

Other Names: Smith Lubricants Engine Formulation

Environmentally Hazardous Substance, Liquid, N.O.S.

(100% Liquid Hydrocarbon)

Recommended Use: Friction Modifier, Extreme Pressure Additive for engine oil.

Supplier: Smith Lubricants
Street Address: 26 Hall Street

Texas, Queensland 4385

**AUSTRALIA** 

Telephone Number: +61 427 274 152

## 2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

This material is hazardous according to criteria of Safe Work Australia. Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail. Hazardous Chemical according to the GHS 7 and WHS regulations. Dangerous Goods according to the ADG Code. Combustible Liquid.

Risk Phrases: May cause harm to breastfed babies. Repeated exposure

may cause skin dryness or cracking. Very toxic to aquatic organisms. May cause long term adverse effects in the

aquatic environment.

Safety Phrases: Avoid contact with skin. This material and its container must

be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions safety data

sheets.

Poisons Schedule: Not applicable

Classification

Reproductive Toxicity Effects on or via lactation

Aquatic Hazard-Acute Category 1
Aquatic Hazard - Chronic Category 1

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### Label Elements including precautionary statements

Signal Word WARNING





#### **GHS Hazard Pictograms**

### **Hazard Statement(s)**

H362 May cause harm to breast fed children

H410 Very toxic to aquatic life with long lasting effects

## **Precautionary Statements - Prevention**

P102 Keep our of reach of children

P103 Read label carefully and follow all instructions.

P201 Obtain special instructions before use P260 Do not breathe mist/vapours/spray.

P264 Wash hands, face, and all exposed skin thoroughly after

handling.

P270 Do not eat, drink, or smoke when using this product.

P273 Avoid release to the environment.

### **Precautionary Statements - Response**

P101 If medical advice is needed, have product container or label

at hand.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician

if you feel unwell.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Gently wash with plenty of soap and water.
P304+P340 IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do – continue

rinsing.

P312 Call a POISON CENTER / Doctor if you feel unwell.

P331 DNOT induce vomiting.

P362+P364 Take off contaminated clothing and wash before re-use.

## **Precautionary Statements - Storage**

P403 Store in a well ventilated place

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## **Precautionary Statements - Disposal**

P501

Dispose of contents/container in accordance to local, regional, national and international regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Ingredient	CAS No.	Proportion % v/v
Distillates (petroleum), hydrotreated, light paraffinic	64742-55-8	>30 - <45
Alkanes, C14-17, chloro-	85535-85-9	>30 - <44
Trimethylolpropane, caprylate caprate triester	11138-60-6	< 20
Calcium Petroleum Sulfonate	61789-86-4	< 5

## 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

#### Inhalation:

If vapours or fumes or decomposition products are inhaled remove from contaminated area.

- Move patient to a source of fresh air & keep calm.
- Remove contaminated clothing and loosen remaining clothing.
- Allow patient to assume most comfortable position and keep warm.
- Keep at rest until fully recovered.
- If rapid recovery does not occur, seek immediate medical assistance.

#### **Skin Contact:**

If skin contact occurs:

- Remove contaminated clothing and wash before re-use.
- Wash skin and hair thoroughly with running water.
- If irritation occurs, seek medical assistance.

#### **Eye Contact:**

If this product comes in contact with the eyes:

- Immediately 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/attention.

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## Ingestion:

If swallowed do NOT induce vomiting.

- Immediately rinse mouth with water.
- If swallowed, DNOT induce vomiting. Give a glass of water.
- Seek medical assistance.

## Symptoms Caused by Exposure

Symptoms/Effects: Symptoms/Effects after eye contact:

Eye irritation

## Medical attention and special treatment:

### Ingestion:

- Immediately rinse mouth with water.
- Give a glass of water.
- If vomiting occurs, give further water
- Seek medical assistance.

#### **Skin Contact:**

- Rinse with soap & water.
- If mild irritation occurs, apply a topical skin lotion to the effected area

#### **Eye Contact:**

 Eye injuries require retraction of the eyelids to ensure thorough irrigation of the conjuctival cul-de-sacs. Irrigation should last at least 20-30 minutes. DNOT use neutralising agents or any other additives. Several litres of saline are required.

## 5. FIRE FIGHTING MEASURES

### Heat and Vapours and incompatibility

- Non-Combustible liquid.
- Heating may cause expansion or decomposition leading to rupture of containers.
- A solid stream of water will spread the burning material.
- Material creates a special hazard because it floats on water.

## Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus.

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### Fire/Explosion Hazard

- Non-Combustible liquid.
- Vapour accumulation could flash and/or explode if in contact with open flame.
- Heating may cause expansion or decomposition leading to rupture of containers.
- On combustion, may emit toxic fumes of carbon monoxide (CO), hydrogen chloride, chlorine. Combustible products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material.
- Environmentally hazardous.

May emit acrid smoke.

## Precautions for firefighters and special protective equipment:

- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
- Use water delivered as a fine spray to control fire and cool adjacent area.
- Do not approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire.

# Suitable Extinguishing Media:

- Water spray or fog.
- Foam.
- Dry powder.
- Carbon dioxide.
- Do not use water jet to extinguish flames as this will spread the fire.

Hazchem Code: · 3Z

# 6. ACCIDENTAL RELEASE MEASURES

## Personal Precautions, Protective Equipment and Emergency Procedures

Personal Protection

and Exposure: Refer to section 8

## **Environmental Precautions**

Environmental Refer to section 12

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## Methods and materials for containment and clean up:

Minor Spills Clean up all spills immediately.

Control personal contact with the substance, by using

protective equipment.

Contain and absorb spill with sand, earth, inert material, or

vermiculite.

Place in a suitable, labelled container for waste disposal.

Major Spills Clear area of personnel.

Isolate all possible sources of ignition.

Alert Fire Brigade and tell them location and nature of

hazard.

Control personal contact with the substance, by using

protective equipment as required.

Prevent spillage from entering drains or waterways.

Contain spill with sand, earth, or vermiculite.

Collect recoverable product into labelled containers for

recycling.

Absorb remaining product with sand, earth, or vermiculite

and place in appropriate containers for disposal.

Wash area and prevent run off into drains and waterways.

If contamination of drains occurs, advise emergency

services.

## 7. HANDLING AND STORAGE

#### Conditions for safe storage including any incompatibilities:

Safe storage:

- Check regularly for spills and leaks
- Store in original containers.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Provide good ventilation in process area to prevent formation of vapour. Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.

Incompatible products & materials:

- Avoid contact with incompatible materials.
- Heat, sparks, flames
- Strong oxidisers.
- Refer Section 10.

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## Precautions for safe handling:

Safe handling:

- Do not breathe mist, vapours, spray.
- Protect containers against physical damage and check regularly for leaks.
- Wear protective clothing when risk of exposure occurs. The risk assessment should consider the work situation, handling methods, the physical form of the chemical, and other environmental factors that may be present.
- Use in a well-ventilated area.
- When handling, do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
- Always wash hands with soap and water after handling.
- Use good occupational work practice.
- Do not allow clothing wet with material to stay in contact with skin.
- Observe manufacturer's storage and handling recommendations contained within this SDS.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Occupational Exposure Limits:**

None of the components have assigned exposure limits.

#### **Engineering controls:**

- Ensure ventilation is adequate to maintain air concentrations below exposure standards.
- Use explosion proof ventilation equipment.
- Prevent vapour concentrating in hollows or sumps.
- DNOT enter confined space where vapour may have collected.
- Keep containers closed when not in use.
- Ensure eyewash stations and safety showers are close to the workstation location.

#### **Personal Protective Equipment:**











## Eye and face protection

- Safety glasses with side shields; or as required,
- Chemical goggles.
- Face shield.

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## Skin protection

See Hand Protection below

### Hands/feet protection

- Nitrile or neoprene gloves
- The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### **Body protection**

See Other Protection below.

### Other protection

- Barrier cream
- Eyewash unit

### **Respiratory protection**

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum	Half Face	Full Face	Powered Aire
Protection Factor	Respirator	Respirator	Respirator
UP to 10 x ES	AB-AUS	-	AB-PAPR-AUS
			Class1
UP to 50 x ES	-	AB-AUS/Class1	-
UP to 100 x ES	-	AB-2	AB-PAPR-2 <sup>^</sup>

A (All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = acid gas or hydrogen cyanide (HCN), B3 = acid gas or hydrogen cyanide (HCN), E = Sulphur dioxide (SO<sub>2</sub>), G = Agricultural chemicals, K = Ammonia (NH<sub>3</sub>), Hg = Mercury, N= oxides of nitrogen, MB = Methyl bromide, AX = low boiling point organic compounds (below 65°C)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on
  detecting any odours through the respirator. The odour may indicate that the mask is
  not functioning properly, that the vapour concentration is too high, or that the mask
  is not properly fitted. Because of these limitations, only restricted use of cartridge
  respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in

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which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid, colourless to slight amber. Sweet ester odour.

Odour Sweet, characteristic

Odour Threshold Not Available

Physical State Liquid – colourless to pale amber

pH Not Available
Boiling point/range >200(°C)
Melting/Freezing Point (°C) Not Available

Flash Point (°C) >260

Flammability Not Available **Evaporation Rate** Not Available **Autoignition Temperature** Not Available **Decomposition Temperature** Not Available Lower Explosion Limit (Vol%) Not Available Upper Explosion Limit (Vol%) Not Available Relative Density (Water=1) 1.12 @ 20°C Solubility in water Insoluble

**Partition Coefficient** 

n-octanol/water: Not Available

Viscosity, cSt @ 20°C: 34

Vapour Pressure @ 40°C (Pa) Not Available Vapour Density (Air=1) Not Available Volatile Component (% vol) Not Available

## 10. STABILITY AND REACTIVITY

Reactivity: See Section 7 Chemical Stability: See Section 7

Stable under normal ambient and anticipated storage and

handling conditions of temperature and pressure.

Possibility of Hazardous Reactions

See Section 7

Hydrogen Chloride, chlorine compounds, carbon monoxide,

carbon dioxide.

The variable nature of the source material must be closely monitored and risk assessments done to ensure the chance

of hazardous reaction is minimised.

Conditions to Avoid: Heat, sparks, open flame, and other ignition sources.

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See Section 7

Incompatible materials: Strong Oxidisers. Alkali and alkaline earth metals.

See Section 7

**Hazardous Decomposition Products** 

See Section 5

Carbon dioxide (CO2), carbon monoxide (CO), oxides of

nitrogen (NOx), acrid smoke.

Hydrogen Chloride, chlorine compounds.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Ingestion:

- Accidental ingestion of the material may be damaging to the health of the individual.
- Swallowing can result in nausea, vomiting, diarrhoea, & irritation of the gastrointestinal tract.
- Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary oedema.

#### **Eye contact:**

May be an eye irritant.

## Skin contact:

- Contact with skin may result in irritation.
- Repeated exposure may cause dryness or cracking of the skin.

#### Inhalation:

- Material may be an irritant to the mucous membranes and respiratory tract.
- The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.
- Inhalation of vapours can result in headaches, dizziness and possible nausea.

## Chronic

- Mutagenicity: The material has been classified as not a mutagen.
- Carcinogenicity: The material has been classified as not a carcinogen.

### **Acute Toxicity**

Oral  $LD_{50}$  Oral (rat) > 5000 mg/kg

Dermal Not Available Inhalation Not Available

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Skin corrosion/irritation Not Available

Serious eye damage/irritation The material has been classified as not corrosive or irritating

to eyes.

Respiratory or Skin sensitisation

Inhalation: The material has been classified as not a

respiratory sensitiser.

Skin: The material has been classified as not a skin

sensitiser.

Germ cell mutagenicity

The material has been classified as not a mutagen. Carcinogenicity The material has been classified as not a carcinogen. Reproductive toxicity The material has been classified as not a reproductive

toxicant.

Aquatic Hazard The material has been classified as a Category 1 hazard.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** 

Very toxic to aquatic organisms. May cause long lasting Acute Toxicity:

harmful effects to aquatic life.

- Fish Not Available - Aquatic invertebrate Not Available - Algae Not Available - Microorganisms Not Available

Chronic Toxicity:

- Fish Not Available - Aquatic invertebrate Not Available - Algae Not Available - Microorganisms Not Available

Persistence and Degradability

Degradability: Water/Soil No information available.

Persistence: Air Low – oxidise by photo-chemical reactions in air

**Bioaccumulative Potential** 

No information available. Bioaccumulation

**Mobility in Soil** 

Mobility Expected to be mobile in soil. Floats on water.

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## 13. DISPOSAL CONSIDERATIONS

### **Disposal methods:**

Product/Packaging disposal

- Do not allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- Consult state land waste authority for disposal.
- Recycle packaging where possible.

## 14. TRANSPORTATION INFORMATION

### Labelling



Marine Pollutant Yes HAZCHEM 3Z

#### **Land Transport:**

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

UN No: 3082

Class-primary: 9 Miscellaneous Dangerous Goods

Packing Group: III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

Hazchem Code: 3Z Environmental Hazards (for Transport)

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or 3082 are not subject to the provisions of the Australian Code for the Transport of

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Dangerous Goods by Road and Rail when transported by road or rail in packagings, IBC's, or any other receptacle not

exceeding 500 kg(L).

Special Precautions For User Limited Quantity

## **Marine Transport:**

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

UN No: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

**Transport Hazard Class:** 

IMDG Code Class 9

IMDG Subrisk Not Applicable

Packing Group: III

**Environmental Hazards (for Transport)** 

Marine Pollutant

Special Precautions for User:

EMS Number F-A / S-F

Special Provisions Limited Quantities

Transport in bulk according to Annex II of MARPOL and the IBC Code

Not Applicable

#### Air Transport:

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S

Transport Hazard Class:

ICAO/IATA Class 9

ICAO/IATA Subrisk Not Applicable

**ERG Code** 

Packing Group III
Environmental Hazrds For Transport

Marine Pollutant

Special Precaustions For User

Special provisions Not applicable

Cargo Only Packing Instructions Cargo Only Maximum Qty/pack

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Passenger & Cargo Packing Instructions
Passenger & Cargo Maximum Qty/pack
Passenger and Cargo Limited Quantity Packing Instructions
Passenger and Cargo Limited Maximum Qty/pack

### 15. REGULATORY INFORMATION

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

- Ingredients are shown on regulatory lists
- Australia Exposure Standards
- Australia Hazardous Substances Information System Consolidated Lists
- Australian Inventory of Chemical Substances (AICS)
- International Agency for Research on Cancer (IARC) Agents Classified by the IARC Monographs
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 2
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 4
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 5
- The Stockholm Convention (Persistent Organic Pollutants)
- International Convention for the Prevention of Pollution from Ships (MARPOL)

#### **National Inventory Status**

Australia – AICS:	Υ
Canada – DSL:	Υ
Canada – NDSL:	Υ
China – IECSC:	Υ
Europe – IENEC / ELINCS / NL	PΥ
Japan – ENCS:	Υ
Korea – KECL:	Υ
Mexico – INSQ:	Υ
New Zealand – NZIOC:	Υ
Philippines – PICCS:	Υ
Russia – ARIPS:	Υ
Taiwan – TCSI:	Υ
USA – TSCA:	Υ
Vietnam – NCI:	Υ

Y = All ingredients are on the inventory

N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing (see specific ingredients in brackets)

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## 16. OTHER INFORMATION

This safety data sheet has been prepared by Smith Lubricants

Date of issue / Revision: 25th September 2023

This SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios, scale of use, frequency of use and current or available engineering controls must be considered.

#### **Disclaimer**

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