



SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Petrol Up**

Other Names: Smith Lubricants Petrol Power Plus
Flammable Liquid, N.O.S (Isopropyl Alcohol mixture)

Recommended Use: Performance additive for petroleum gasoline fuel

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.

Hazard Category: Harmful, Irritant

Risk Phrases: Irritating to respiratory system. Harmful: May cause lung damage if swallowed and enters airways. Repeated contact may cause skin dryness or cracking. Irritating to eyes. Vapours may cause drowsiness or dizziness. Highly Flammable.

Safety Phrases: Do not breathe vapour/mist/spray. Keep container in a well-ventilated place. Keep away from sources of ignition. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take precautionary measures against static discharges. In case of fire use sand, earth, chemical powder or foam. If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Dangerous Goods Class: 3

Poisons Schedule: 5

Issued: 1st July 2011
Revised: 10th September 2012

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Ingredient	CAS No.	Proportion % v/v
Propan-2-ol	67-63-0	>60
Naptha (petroleum), hydrotreated heavy	64742-48-9	10 - 30
Polyisobutylene	9003-27-4	<10
1,2,4-Trimethylbenzene	95-63-6	<1.2

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:

Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.

Skin Contact:

If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

Eye Contact:

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion:

If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.

Medical attention and special treatment:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazards from combustion products:

Oxides of carbon.

Precautions for fire fighters and special protective equipment:

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition. Decomposes on heating emitting toxic fumes. If safe to do so, remove containers from path of fire.

Suitable Extinguishing Media:

Alcohol resistant foam is the preferred fire fighting medium but, if it is not available, normal protein foam can be used.

Hazchem Code: · 3YE

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6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Wear protective equipment to prevent skin and eye contact. Clear area of all unprotected personnel. Avoid breathing in vapours. Work up wind or increase ventilation.

Methods and materials for containment and clean up:

Eliminate sources of ignition. Warn occupants of downwind areas of possible fire and explosion hazard. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material. Collect and seal in properly labelled containers or drums for disposal. Wash area down with high pressure hot water jet. If contamination of sewers or waterways has occurred advise local emergency services.

7. HANDLING AND STORAGE

Conditions for safe storage:

Store in a cool, dry place away from direct sunlight. Do not pressurise, cut, heat or weld containers - residual vapours are flammable. This product is flammable and will fuel a fire in progress.

Precautions for safe handling:

This product is flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Use grounding leads to avoid discharge (electrical spark).

Storage Life:

In excess of 2 years if stored in accordance with the advice given above.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

The time weighted average concentration (TWA) for this product is: 983 mg/m³ (400 ppm), which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short-term exposure limit (STEL) is: 1230 mg/m³ (500 ppm), which is the maximum allowable exposure concentration at any time.

Engineering controls:

Use in well ventilated areas. If inhalation risk exists: Use with local exhaust ventilation or while wearing organic vapour respirator. Keep containers closed when not in use.

Personal Protective Equipment:

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. Wear overalls, safety glasses and impervious gloves. Always wash hands before smoking, eating, drinking

or using the toilet. If risk of inhalation exists, wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Blue Liquid
Odour	Alcoholic odour
pH	N/A (Organic Matrix)
Boiling point/range	>82°C
Freezing Point (°C)	<-47°C (Pour Point)
Flash Point (°C)	>43°C
Autoignition Temperature	>350°C
Volatile %	>90%
Lower Explosion Limit (Vol%)	1.0%
Upper Explosion Limit (Vol%)	7.0%
Oxidising Properties	None
Vapour Pressure @20°C	>1.0kPa
Relative Vapour Density(air=1.0)	>1.0@20°C
Density (Kg/m ³)	0.78@20°C
Solubility in water	Soluble
Solubility in solvent	Not Applicable

10. STABILITY AND REACTIVITY

Chemical Stability:	The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to avoid:	Avoid exposure to heat, sources of ignition and open flame.
Incompatible materials:	Incompatible with strong oxidising agents.
Hazardous decomposition products:	Oxides of carbon.
Hazardous reactions:	Stored mixtures with MEK produce explosive peroxides. Increased rate of peroxide formation with Isobutanol. Peroxide production sharply decreases the Autoignition Temperature. Violent, explosive reactions with metal oxides, oxidising agents, halogenate.
Hazardous polymerisation:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Accute Effects

- Ingestion:** The single lethal dose for humans is approx. 250ml, however 100ml can be fatal. Symptoms of overexposure include: flushing, pulse rate decrease, blood pressure lowering, anaesthesia, narcosis, headaches, dizziness, mental depression, hallucinations, distorted perceptions, respiratory depression, nausea or vomiting, coma.
- Eye contact:** This product is irritating to eyes and can cause corneal burns.
- Skin contact:** Contact with skin may result in irritation. Repeated exposure may cause skin dryness or cracking.
- Inhalation:** This product is irritating to the respiratory tract. In high doses, this product has narcotic effects. At concentrations of 400ppm or higher, the product may induce a mild narcosis, with transient effects. Exposure to large concentrations over an extended period of time will result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations, and possible loss of consciousness.
- Chronic Effects:** A slight tolerance to this product can be acquired. This product is easily absorbed by the skin yielding a narcotic action. Overexposure may not be immediately determined for those who have built a tolerance. Abuse of this product will be harmful. People with pre-existing liver or kidney conditions must avoid unnecessary product exposure (metabolises similarly to ethanols).
- Toxicological Data:** Oral LD50: 2-propanol: 5045 mg/kg (oral, rat)
Dermal TCLo: TDLo: 223 mg/kg (oral, human)

12. ECOLOGICAL INFORMATION

Ecotoxicity

Avoid contaminating waterways.

Aquatic toxicity

Fish Toxicity (rainbow trout, goldfish, bluegill):	LC50(96hr: Expected to be toxic
Daphnia Magna EC50 (24 hr):	Not Available
Blue-green algae (Toxicity threshold 7-8 days):	Not Available
Green algae (Toxicity threshold 7-8 days):	Not Available

13. DISPOSAL CONSIDERATIONS

Disposal methods:

Refer to local government authority for disposal recommendations. Dispose of material through a licensed waste contractor.

14. TRANSPORTATION INFORMATION

Road and Rail Transport:

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

UN No: 1993
Class-primary: 3 Flammable Liquid
Packing Group: II
Proper Shipping Name: Flammable Liquid, N.O.S. (Isopropyl Alcohol mixture)
Hazchem Code: · 3YE

Marine Transport:

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN No: 1993
Class-primary: 3 Flammable Liquid
Packing Group: II
Proper Shipping Name: Flammable Liquid, N.O.S. (Isopropyl Alcohol mixture)
IMDG EmS Fire: F-E
IMDG EmS Spill: S-E

Air Transport:

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

UN No: 1993
Class-primary: 3 Flammable Liquid
Packing Group: II
Proper Shipping Name: Flammable Liquid, N.O.S. (Isopropyl Alcohol mixture)

15. REGULATORY INFORMATION

Classification: This material is hazardous according to criteria of Safe Work Australia; HAZARDOUS SUBSTANCE.

Hazard Category: Harmful, Irritant



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Poisons Schedule: 5

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

This safety data sheet has been prepared by Bitron International Technical Services.

Date of issue / Revision: 10th September 2012

Reason for revision: Reflect change of principal business address

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 Bitron International Pty 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.