

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: **Open Gear Lube**
 Supplier: MMP-International, Division
 of ITW Ltd.
 Brunel Close, Park Farm
 Ind Est,
 Wellingborough, Northants,
 NN8 6QX

Emergency telephone number: +44 (0) 1933 670870
 Fax No: +44 (0) 1933 670800

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation

Chemical Name	CAS-No	EEC-No	Class	Weight %
BITUMEN	64742-93-4		Xn; R40	30-60
BUTANE	106-97-8	601-004-00-0	F+; R12	1-10
PROPANE	74-98-6	601-003-00-5	F+; R12	10-30
HEPTANE	142-82-5	601-008-00-2	F; R11	1-5
	64742-82-1			

3. HAZARDS IDENTIFICATION

Most important hazards: Extremely flammable.
 Specific hazards: Possible risks of irreversible effects.

4. FIRST AID MEASURES

Inhalation: Move to fresh air, Consult a physician after significant exposure.
 Skin contact: Remove immediately adhering matter. Wash off immediately with soap and plenty of water, If skin irritation persists, call a physician.
 Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 Ingestion: Call a physician immediately, Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: alcohol-resistant foam, Carbon Dioxide (CO₂), dry powder, Water spray.
 Specific hazards: In case of fire and/or explosion do not breathe fumes.
 Special protective equipment for firefighters: In case of fire, wear a self contained breathing apparatus, protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not breath vapours or spray mist.
 Environmental precautions: Do not let product enter drains.
 Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Transfer to covered steel drums.

7. HANDLING AND STORAGE

Handling: Use only in well-ventilated areas. Keep away from heat and sources of ignition.

Product name: **Open Gear Lube**

REF: T19

Storage: Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name: National occupational exposure limits (Ref: British COSHH - EH40):

BITUMEN	no data available
BUTANE	600ppm
PROPANE	Asphyxiant.
HEPTANE	500ppm

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas..

- Respiratory protection: Breathing apparatus with filter.
- Hand protection: gloves 9 (Advice should be sought on the type of gloves) .
- Eye protection: safety glasses.
- Skin and body protection: protective suit.

Hygiene measures:

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid - aerosol Colour: black Odour: hydrocarbon-like

pH:	g/l H ₂ O)	N/A
Boiling point/range:	>100	°C
Flash point:	-40	°C
Melting point/range:	<0	°C
Autoignition temperature:	>400	°C
Flammability (solid, gas):	LEL 0.6 (% vol in air at 25°C), UEL 9.0	
Explosive properties:	None	
Oxidizing properties:	None	
Vapour pressure:	2.41 Bar	

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions to avoid: Keep away from heat and sources of ignition.

Materials to avoid: oxidizing agents, strong acids, strong bases.

Hazardous decomposition products: Carbon Dioxide (CO₂), nitrogen oxides (NO_x).

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Components of the product may be absorbed into the body by inhalation, ingestion and through the skin.
Aliphatic Hydrocarbon Solvent Blend: LD50/oral/rat = >5g/kg
White Spirit: LD50/oral/rat = >5g/kg

Local effects: May be harmful by inhalation, ingestion, skin adsorption. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Sensitization: May cause skin irritation and/or dermatitis.

Long term toxicity: Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Repeated or prolonged exposure: Danger of serious damage to health by prolonged exposure, to the renal / Central nervous system.

12. ECOLOGICAL INFORMATION

Mobility: Do not allow material to contaminate ground water system.
Persistence / degradability: Aquatic toxicity is unlikely due to low solubility.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Contaminated packaging: Empty containers can be landfilled after cleaning, when in compliance with local regulations.

European waste Catalogue No: 09/04/2000

14. TRANSPORT INFORMATION

Proper shipping name: Aerosol

UN-No: 1950

ADR/RID Class: 2

HI/UN No: 1950

IMO Class: 2

Proper shipping name: Aerosol

ICAO Class: 2

UN/ID No: 1950

Proper shipping name: Aerosol

15. REGULATORY INFORMATION

Classification according to European directive on classification of hazardous preparations 93/21/EEC

- Contains: PROPANE, BUTANE, BITUMEN.

- Symbol(s):

F+ -
Extremely
flammableXn -
Harmful.

R -phrase(s): R12 - Extremely flammable. R40 - Possible risks of irreversible effects.

S -phrase(s): S2 - Keep out of reach of children. S 9 - Keep container in a well-ventilated place.
S16 - Keep away from sources of ignition - No smoking. S23 - Do not breathe vapour. S29 - Do not empty into drains. S36/37 - Wear suitable protective clothing and gloves.

16. OTHER INFORMATION

Recommended use:

Recommended restrictions:

When used in a mixture, read the labels and safety data sheets of all components.

Revision date: 11/07/2002.