

MATERIAL SAFETY DATA SHEET FOR BOSS THREAD CUTTING LUBRICANT



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product type:	Screw cutting/tapping lubricant
Intended Use:	When applied to cutting tools or work, the cutting effort is reduced, it lubricates the cut metal chip/swarf and allows the cutting tool to cut more cleanly and with a better surface finish. Formulated to be used on all hard metals/stainless steel/ceramics. Ideal for steel pipe fittings, reduces possibility of wall deformation during thread cutting. Use for drilling/sawing/thread cutting.
Trade Name:	BOSS Thread Cutting Lubricant
Supplier of product:	The BSS Group plc
Registered Office:	Fleet House, Lee Circle, Leicester, LE1 3QQ
Telephone/Fax Numbers:	0116 262 3232 / 0116 253 1343
E-mail Address	reception@bssgroup.com
Web site Address	www.bss-group.co.uk

2. COMPOSITION/INFORMATION ON INGREDIENTS.

Ingredients:	Mineral Oil Blend }	
	Butane }	AEROSOL

3. HAZARD IDENTIFICATION

Eye Contact:	Product may cause eye irritation if product comes into physical contact with eyes
Skin Contact:	Slight skin irritant. Prolonged or repeated contact may cause drying of defatting of skin
Inhalation:	High levels of vapour/mist may cause dizziness. Can cause irritation of the respiratory tract

4. FIRST AID MEASURES

Eye Contact:	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
Skin Contact:	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. DO NOT use solvents or thinners. If in doubt, seek medical advice.
Inhalation:	Move the exposed person to fresh air at once. If breathing is irregular or has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.
Ingestion:	If accidentally swallowed, obtain immediate medical attention. Keep at rest. DO NOT INDUCE VOMITING.

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5. FIRE FIGHTING MEASURES

Extinguishing Media:	Alcohol resistant foam/CO ₂ /powder/water spray/mist. DO NOT USE WATER JET
Special Fire Fighting Procedures:	Fire exposed containers should be sprayed with water to lessen risk of explosion.
Unusual fire and explosion hazards:	Fire will produce dense black smoke containing combustion products which may be a health hazard. Appropriate self-contained breathing apparatus may be required. RUN OFF FROM FIRE MUST NOT ENTER DRAINS

6. ACCIDENTAL RELEASE MEASURES

Procedures for leaks or spillages:	Exclude sources of ignition and ventilate the areas. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Section 7 and 8. Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with waste regulations (see Section 13) Do not allow to enter drains or water courses Clean preferably with a detergent; avoid the use of solvents. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the National Rivers Authority
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7. HANDLING AND STORAGE:

Handling:	Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent with creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits. DO NOT USE ON AN ENGINE WHILST IT IS RUNNING Use only in areas from which all sources of heat, sparks and open flame have been excluded. Avoid skin and eye contact Avoid inhalation of vapour and spray mist Smoking, eating and drinking should be prohibited in areas of use and storage READ DIRECTIONS FOR USE PRINTED ON EACH UNIT OF ISSUE
Storage:	Store below 50° in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. NO SMOKING Observe the label precautions Store separately from strong oxidizing agents and strongly alkaline and strongly acidic materials.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient Name	OES/MEL	8hrs TWA	10 min STEL
Mineral Oils (Mist)	OES	5 Mg/M3	10 Mg/M3
Butane	OES	600ppm	750ppm
Ingredient Comments:	OES = Occupational Exposure Standard		

Engineering Measures:	Provide adequate ventilation to maintain the flammable vapour concentration well below the lower explosion limited (LEL) and ensure the airborne concentration of substances to which an OES has been assigned is below that OES (Occupational Exposure Standard)
Respiratory Protection:	Under normal workshop conditions workshop conditions no respiratory equipment is required. Air-fed respiratory equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limited and engineering controls and measures cannot reasonable be improved.
Hand Protection:	Hand protection is not specified for the product use in aerosol form. However, barrier creams may help to protect exposed areas of the skin but are not substituted for full physical protection. They should not be applied once exposure has occurred.
Eye Protection:	Eye protection is not specified for product use in aerosol form. However, bulk application by spray gun or powered system should be carried out by operators wearing appropriate eye protection.
Skin Protection:	Cotton or cotton/synthetic overalls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Aerosol
Colour:	Gold/Brown Liquid
Odour/Taste:	Hydrocarbon
pH:	Not applicable
Boiling Point/Boiling Range:	140°C 0 applies to bulk oil
Melting Point/Melting Range:	<0°C
Flash Point:	N/A to aerosols. Above 170°C for bulk oil
Flammability:	LEL 0.8 (% Vol in Air at 25°C)
	UEL 9.0
Autoflammability:	>460° C
Explosive Properties:	None
Oxidising Properties:	None
Can Pressure:	2.41 bar
Relative Density:	Not applicable
VOC Content:	65g/100ml
Solubility (Water):	Insoluble
Solubility (Solvent):	Soluble in aliphatic hydrocarbons
Stability:	Stable
Conditions to Avoid:	Naked flames, red hot surfaces, other high temperature sources that may induce thermal decomposition
Incompatibility (materials to avoid):	Oxidising agents, strong acids, strong alkalis
Hazardous Decomposition Products:	In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

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10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Naked flames, red hot surfaces, other high temperature sources that may induce thermal decomposition
Incompatibility (materials to avoid):	Oxidising agents, strong acids, strong alkalis
Hazardous Decomposition Products:	In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

11. TOXICOLOGICAL INFORMATION

Ingredient:	LD50 (Animal/Oral)
Mineral Oil	.5g/Kg (Rat)

There is no data available on the specific product itself.
Exposure to organic solvent vapours may result in adverse health effects on the renal and central nervous systems. Symptoms can include: headache, dizziness, fatigue, muscular weakness, drowsiness, in extreme cases, loss of unconsciousness.
Splashes in the eyes may cause irritation and reversible local damage.
Ingestion may cause irritation of mouth, throat and digestive tract causing vomiting and abdominal pain.
Significant absorption can cause sleepiness and pulmonary oedema.
Mineral oil when in frequent or prolonged contact with the skin can cause defatting leading to skin disorders such as "oil acne" and warts or ulcers which may undergo malignant changes.
Inhalation of high concentrations of oil most may produce local irritation of the respiratory tract or systemic effects from absorption into the blood stream.
Ingestion may product irritation of the mouth, the intestinal tract or systemic effect from absorption into the blood stream.

12. ECOLOGICAL INFORMATION

There is no data available on the product itself.
The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.
The Air Pollution Control requirements of regulations may, under the Environmental Protection Agency, apply to use this product.

13. DISPOSAL CONSIDERATIONS

Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.
Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulation made under the Control of Pollution Act.
Using the information provided in this data sheet, advice should be obtained from the Waste Regulation Authority whether the special waste regulations apply.

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14. TRANSPORT INFORMATION

Label for Conveyance:	FLAMMABLE GAS
CCN:	3403 99 10
UN No. Road	1950
Aerosol:	CLASS 2
Packing Group:	2
ADR Item No:	5°F
Dangerous Goods in Limited Quantities:	EEC Tarrif No 340399-10-0
Transport Information for Bulk Oil:	Not classified as hazardous for conveyance

15. REGULATORY INFORMATION

Label for Supply:	(Aerosol) CAUTION FLAMMABLE	
Risk Phrases:	R-12	Extremely flammable
Safety Phrases:	S-2 S-23C S-46	Keep out of reach of children Do not breathe vapour/spray If swallowed seek medical advice immediately and show this container or label

16. OTHER INFORMATION

The information contained in this data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging) Regulations. It does not constitute the user's own assessment of work-place risks as required by other health and safety legislation. The provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of the relevant legislation are complied with.

OES/MEL values are obtained from the current issue of EH40 unless indicated thus (Sup) when a value has been obtained from the supplier.

Further information and advice can be found in the following publications:

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The Control of Substances hazardous to Health Regulations 1988 (SI 1988 : 1657)

Storage of Packaged Dangerous Substances HS(G)71.

The Environmental Protection (Duty of Care) Regulations 1992 (SI 1992 : 2839).

The Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972 (SI 1972 : 917).

Storage of Flammable Liquids in Containers HS(G)51.

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with legal regulations. The information contained herein is based on the current state of our knowledge and is intended to describe products from the point of view of safety requirements and thus should not be construed as guaranteeing specific properties.

We believe the statements/technical information and recommendations contained herein are reliable. However, the information is provided without warranty expressed or implied. It is the user's responsibility both to determine safe conditions for use of this product and assume loss damage or expense direct or consequential arising from use of this product. Before use always read the product label and H & S text.

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DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.