

MATERIAL SAFETY DATA SHEET FOR BOSS AC-90 SPRAY LUBRICANT



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product type:	Liquid maintenance spray
Intended Use:	Multipurpose lubricant which will penetrate and release rusty/jammed fixings. Displaces water and moisture from vehicle ignitions systems and aids starting and smooth running. Cleans all metals and removes bloom from enamel surfaces. Degreases and leaves an anti-rust protective film. Does not conduct electricity within the normal range found in home or industry. Does not contain Silicone or CFC's. Perfect formulation for all around the workshop/garage/factory.
Trade Name:	BOSS AC-90 Spray 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. HAZARD IDENTIFICATION

Extremely flammable

Repeated exposure may cause skin dryness/irritation.

SECONDARY HAZARDS

Toxic to aquatic organisms/may cause long term effects in the aquatic environment.

Inhalation may cause dizziness/nausea/upper respiratory irritation.

Eye contact may cause irritation/redness.

Ingestion may cause irritation/nausea/vomiting/diarrhoea.

Vomiting may cause product to enter lungs which may cause chemical pneumonia.

3. COMPOSITION/INFORMATION ON INGREDIENTS.

Ingredients:	Cas No.:	EINECS NR:	Risk Phrases:
White Spirit	64742-82-1	265-185-4	R10, R66, R51, R53
Mineral Oil	64742-65-0	265-169-7	
Non-Hazardous Ingredient	-	-	-
Butane	106-97-8	203-448-7	R12
Propane	74-98-6	200-827-9	R12
Isobutane	75-28-5	200-857-2	R12

Risk phrases allocated to white spirit indicate harmful in the aquatic environment. In practice the unit of issue being under 500 ml in volume and aerosol packed is unlikely to pose a significant hazard.

The full text for all risk phrases are listed in Section 15/16.

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4. FIRST AID MEASURES

Skin Contact:	Wash skin with soap and water seek medical attention if irritation occurs.
Eye Contact:	Ensure contact lenses are removed, rinse eyes with clean cold water or eye rinse fluid, ensure to lift eyelids to flush product from underside of eyelids, continue to rinse until irritation subsides (10-15 mins). Seek Medical attention if discomfort continues.
Ingestion:	Accidental ingestion is an unlikely event. Deliberate ingestion call a doctor. Do not induce vomiting, rinse mouth with water and give water or milk to drink if person is not unconscious.
Inhalation:	Ensure airway is clear and free from any obstruction. Move person to fresh air at once. If breathing is difficult properly trained personnel may assist affected person by administering 100% oxygen. Keep person warm and at rest, seek medical attention if breathing stops or shows signs of failing apply mouth to mouth ventilation.

5. FIRE FIGHTING MEASURES

Store products away from sources of ignition. In the event of fire, remove if possible all unaffected product away from risk. Cool stocks of unburning product with water mist to reduce the possibility of aerosol cans exploding.

Extinguish burning material with CO₂/Dry Foam/Sand.

DO NOT USE WATER

Special exposure hazard - Fire will produce smoke containing combustion products which may be a health hazard. Appropriate self-contained breathing apparatus may be required. Avoid run off from fire entering fresh water drainage system.

6. ACCIDENTAL RELEASE MEASURES

Procedures for leaks or spillages:	Personal Precautions - Exclude non-essential Personnel. Avoid breathing fumes. Wear skin protection. Wear eye protection. Remove all sources of ignition and ventilate the area
Environmental Precautions:	Do not allow to enter drains or water courses. Soak up large spills with sand and place in a suitable container for later disposal in accordance with local waste regulations.

METHOD OF CLEANING UP SPILLS:

Contain and collect spills with absorbent materials sand/earth/vermiculite/diatomaceous earth. Place in a suitable container for disposal.

In the event of a large scale spill resulting from transport collision: Exclude vehicles, contaminated surfaces will be very slippy. Affected areas should be covered in sand/sawdust or suitable absorbent.

Do not wash or rinse into the environment or drains, later remove contaminated absorbent to waste disposal site.

Marine spills should be dealt with in accordance with pollution control procedures relevant to the products

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7. HANDLING AND STORAGE:

Handling:	<p>HANDLING: Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.</p> <p>DO NOT USE ON AN ENGINE WHILST IT IS RUNNING.</p> <p>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.</p>
Storage precautions:	<p>STORAGE: Store below 50°C 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 oxidising agents and strongly alkaline and strongly acidic materials. SPECIFIC USES - SEE SECTION ONE.</p>

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT NAME:	OES	8HR TWA 5Mg/M3	
Mineral Oils (Mist)	OES	5Mg/M3	Suppliers Recommendation
White Spirit	OES	600 MG/M3	
Butane/Propane	OES	600 ppm	
		15 MINS STEL	
White Spirit		1800mg/m3	
Butane/Propane		750 ppm	
Mineral Oil Mist		-	

Engineering Measures:	Provide adequate ventilation to maintain the flammable vapour concentration well below the OES ensure the airborne concentration of substances to which an OES has been assigned is below that OES (Occupational Exposure Standard). REFER TO EH40/2002.
Respiratory Protection/Ventilation:	Provide adequate local exhaust ventilation. No specific respiratory protection recommendations are made, but respiratory protection must be used if the general level exceeds the OES Stated.
Hand Protection:	Hand protection is advised when skin is in regular contact with SC-90. Factory/industrial users are advised to wear non-porous protective gloves, solvent resistant variety advised.
Eye Protection:	Avoid spray from Aerosols entering eyes. Safety Glasses are advised for Factory/Industrial users of the product.
Skin Protection:	Wear appropriate clothing to prevent the possibility of AC-90 contact with skin. Do not place cleaning cloths contaminated with AC-90 into overall pockets.
Hygienic Work Routines:	Do not smoke in the work area or when using AC-90. Wash hands/face at the end of each shift and before eating/smoking/using toilet. Remove promptly any clothing contaminated with AC-90 and wash skin to remove traces of product. Do not eat or drink when using AC-90.
Environmental Exposure Controls:	Dispose of material contaminated with AC-90 in accordance with local waste disposal reg

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid contained in steel aerosol canister.
Appearance:	Brown liquid.
Odour:	Hydrocarbon.
pH:	Not applicable.
Boiling Point/Boiling Range:	140°C.
Melting Point/Melting Range:	Liquid product.
Flash Point:	40°C - refers to bulk product before aerosol packing
Flammability:	LEL 0.8 (% Vol in Air at 25°C) UEL 9.0
Autoflammability:	>230°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.
ACCIDENTAL RELEASE INTO THE ENVIRONMENT SEE SECTION 6.	

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)
White Spirit:	>5g/Kg (Rat)
<p>There is no data available on the specific product itself.</p> <p>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 consciousness.</p> <p>Splashes in the eyes may cause irritation and reversible local damage.</p> <p>White spirit vapour in high concentrations can cause intoxication, headache, nausea, and in extreme cases, coma.</p> <p>Ingestion may cause irritation of mouth, throat and digestive tract causing vomiting and abdominal pain.</p> <p>Significant absorption can cause sleepiness and pulmonary oedema.</p> <p>Mineral oil when in frequent or prolonged contact with the skin can cause defatting leading to skin disorders such as 'oilacne' and warts or ulcers which may undergo malignant changes.</p> <p>Inhalation of high concentrations of oil mist may produce local irritation of the respiratory tract or systemic effects from absorption into the blood stream.</p> <p>Ingestion may produce irritation of the mouth, the intestinal tract or systemic effects from absorption into the blood stream.</p>	

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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 made under the Environmental Protection Act may apply to the use of this product.

White spirit is likely to bio-accumulate. White Spirit is non-toxic to fish although it may effect small organisms by smothering in the aquatic environment.

Mineral oil is toxic to aquatic organisms and may cause long term effect in the aquatic environment. Spills of sufficient quantity of AC-90 from aerosol cans to effect the aquatic environment are unlikely.

MOBILITY - AC-90 is water insoluble. AC-90 will spread over surface water and will slowly evaporate and slowly biodegrade. AC-90 in soil will be absorbed by the upper layers and will biodegrade slowly.

REFER TO SECTION 6 FOR ENVIRONMENTAL RELEASE MEASURES.

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 Regulations 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.

EMPTY AEROSOL CANS SHOULD NOT BE PUNCTURED OR INCINERATED. BURY IN LANDFILL IN ACCORDANCE WITH LOCAL REGULATIONS AND HAVING DUE REGARD TO ENVIRONMENTAL PROTECTION LEGISLATION.

14. TRANSPORT INFORMATION

NOTES: EXEMPT FROM CONTROL AS LIMITED PROVISIONS APPLY	
LABEL FOR CONVEYANCE:	FLAMMABLE GAS
UK ROAD TRANSPORT CLASS:	2.1
UK ROAD PACK GR :	N/A
ADR CLASS NO:	2.1 GASES; COMPRESSED, LIQUEFIED, DISSOLVED UNDER PRESSURE.
ADR CLASS:	DIVISION 2.1 FLAMMABLE GAS
ADR ITEM NO:	5F
ADR MARGINAL:	2201
ADR LABEL NO:	2.1
CEFIC TEC (R) NO:	20G53
SHIPPING NAME:	AEROSOLS
RID CLASS NO:	2.1
RID ITEM NO:	5F
UN NO SEA:	UN1950 EEC TARIFF NO 340399-10
MFAG TABLE NO:	REFER TO GUIDE
MARINE POLLUTANT:	NO
UN NO. AIR:	UN1950
ICAO CLASS:	2.1
AIR PACK GR:	N/A

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15. REGULATORY INFORMATION

Label for Supply:	R12	EXTREMELY FLAMMABLE
Risk Phrases:	R51 R53 R66	Toxic to Aquatic Organisms. May cause long term adverse effect in the aquatic environment. Repeated exposure may cause skin dryness or
Safety Phrases:	S2 S16 S23C S24 S37 S43A S51 S57 S62	Keep out of the reach of children. Keep away from sources of ignition - no smoking Do not breathe vapour/spray. Avoid contact with skin. Wear suitable gloves. In case of fire use sand, earth, chemical powder or foam. Use only in well ventilated areas. Use appropriate containment to avoid environmental contamination. If swallowed do not induce vomiting, seek medical advice show this container or label.
Regulatory References:	The control of Substances hazardous to Health Regulations 1988 Chemical Hazard Information and Packaging Regulations 1993 Rivers (Prevention of Pollution) Act 1961 Control of Pollution (Special Waste Regulations) 1980 Chemicals hazard (Information and Packaging) Regulations Classification and labelling of Substances and preparations Dangerous for supply Occupational Exposure Limits EH40 Introduction to Local Exhaust ventilation HS(G)37 C.H.I.P. for Everyone HSG (108)	

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.

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

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.

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.