

Product Health & Safety Data

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BAMBI AIR COMPRESSORS LIMITED Product: SB 42/46 Compressor Oil

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

PRODUCT: SB 42/46

PRODUCT No: E-40-217

REVISION: 30 JULY 2002

SUPERSEDES: 20 JANUARY 2002

IN AN EMERGENCY PLEASE CONTACT: 01372 223131

INTENDED USES:

Hydraulic fluid.

REASON FOR THIS REVISION:

Reformatted to be consistent with directive 2001/58/EG

2. COMPOSITION INFORMATION ON INGREDIENTS

Hazardous ingredients present at or above regulatory disclosure levels:

None

3. HAZARD IDENTIFICATION

This product is not considered hazardous according to EU regulatory guidelines.

This product consists of highly refined base oils with additives.

It is of low oral and dermal toxicity and under normal conditions of use should present no significant health hazards. However, in common with most mineral oils, prolonged and repeated skin contact may cause dermatitis.

Handling precautions should be strictly observed.

Note: This product should not be used for any other purpose without expert advice.

4. FIRST AID MEASURES

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INHALATION:

At ambient/normal handling temperatures, inhalation of vapors is normally not a problem. If overexposed to oil mist, remove from further exposure. Administer artificial respiration if breathing is irregular or has stopped. Get prompt medical attention.

SKIN CONTACT:

No adverse effects due to skin contact are expected.

EYE CONTACT:

Rinse immediately with plenty of water until irritation subsides. If irritation persists, obtain medical advice.

INGESTION:

If swallowed, keep at rest and call a physician. Do not induce vomiting unless directed to do so by a medical professional.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:

Do not attempt to extinguish the fire until the source is shut off.

FIRE AND EXPLOSION HAZARDS:

Combustible material, low hazard. The product can form flammable mixtures or can burn only on heating above the flash point. However, minor contamination by hydrocarbons of higher volatility may increase the hazard.

FLASH POINT: > 218 deg. C
METHOD: COC ASTM D92

SPECIAL FIRE-FIGHTING PROCEDURES:

Water fog or spray, to cool fire-exposed surfaces (e.g. containers) and to protect personnel, should only be used by personnel trained in fire fighting.

Cut off "fuel"; depending on circumstances, either allow the fire to burn out under controlled conditions or use foam or dry chemical powder to extinguish the fire.

Respiratory and eye protection required for fire fighting personnel exposed to fumes or smoke.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, and carbon monoxide may be formed in the event of incomplete combustion.

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Possible release of hydrogen sulphide during heating or hot storage.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

See Section 8.

LAND SPILL:

Shut off source taking normal safety precautions. Prevent liquid from entering sewers, water courses or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation. Take measures to minimise the effects on ground water.

Recover by skimming or pumping using explosion-proof equipment, or contain spilled liquid with booms, sand, or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13.

WATER SPILL:

Confine the spill immediately with booms. Warn other shipping. Notify port and other relevant authorities.

Remove from the surface by skimming or with suitable absorbents. Disperse the residue in unconfined waters, if permitted by local authorities and environmental agencies.

7. HANDLING AND STORAGE

SPECIFIC USES: Hydraulic fluid, Compressor lubrication

Store the product in cool, well ventilated surroundings, well away from sources of ignition. Provide suitable mechanical equipment for the safe handling of drums and heavy packages. Electrical equipment and fittings must comply with local regulations regarding fire prevention with this class of product.

LOAD/UNLOAD TEMPERATURE deg. C:

1 minimum for pumpability

STORAGE TEMPERATURE deg. C:

Ambient to 40

SPECIAL PRECAUTIONS:

Keep containers closed when not in use.

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Prevent small spills and leakages to avoid slip hazard.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 OCCUPATIONAL EXPOSURE LIMIT:

ACGIH recommends a TWA of 5 mg/m³ and a 15-minute STEL of 10 mg/m³ for oil mist (Monitoring method; NIOSH 5026)

8.2 PERSONAL PROTECTION:

In open systems where contact is likely, wear safety goggles, chemical resistant overalls, and chemically impervious gloves.

Where only incidental contact is likely, wear safety glasses with side shields. No other special precautions are necessary provided skin/eye contact is avoided.

When concentrations in air may exceed the occupational exposure limit, and where engineering, work practices, or other means of exposure reduction are not adequate, approved respirators may be required.

ENVIRONMENTAL CONTROLS: See section 7.

9. PHYSICAL AND CHEMICAL PROPERTIES

GENERAL:

APPEARANCE/ODOUR: Clear dark amber liquid, mild petroleum odour.

IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION:

DENSITY, g/ml:	0.88 at 15 deg. C Typical
BOILING RANGE:	Data not available.
VISCOSITY, mm ² /S:	68 at 40 deg. C Typical
VISCOSITY, mm ² /S:	9 at 100 deg. C Typical
VAPOUR PRESSURE, kPa:	Non-volatile
VAPOUR DENSITY AT 1 BAR (Air=1):	Heavier than air
EVAPORATION RATE (n-butyl acetate=1):	Non-volatile

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SOLUBILITY IN WATER: 20 deg. e Negligible

pH: Not Applicable,

FLASH POINT: > 218 deg. C

METHOD: **COC** ASTM D92

AUTOIGNITION TEMPERATURE: Data not available.

PARTITION COEFFICIENT n-octanol/water: Data not available.

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC): Stable

CONDITIONS TO AVOID:

Keep away from heat sources, open *flames* and other sources of ignition.

INCOMPATIBLE MATERIALS:

Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen.

HAZARDOUS DECOMPOSITION PRODUCTS:

Product does not decompose at ambient temperature.

11. TOXICOLOGICAL INFORMATION

EFFECTS OF OVER EXPOSURE:

INHALATION:

Negligible hazard at ambient/normal handling temperatures.

Elevated temperatures or mechanical action may *form* vapours, mists, or fumes which may be irritating to the eyes, nose, throat, and lungs.

Avoid breathing vapours, mists, or fumes.

SKIN CONTACT:

Low order of acute toxicity.

Prolonged or repeated contact may lead to mild skin irritation.

EYE CONTACT:

Slightly irritating, but does not injure eye tissue.

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INGESTION:

Low order of acute/systemic toxicity.

CHRONIC:

Although there is no specific test data on all the base oil components, by comparison with base oils of similar composition and refining history the base oil components would not be expected to demonstrate carcinogenic potential. The base oil component which has been tested has exhibited no evidence of carcinogenicity.

TOXICITY DATA:

ACUTE:

No test data are available for the complete formulated product. The potential health hazards described were therefore derived from what is generally known of the toxicity of the base oils and the additives, taking into account the concentrations at which they are present. The general effects of mineral oils of this type are well known and are described in numerous publications including CONCAWE Report 5/87 "Health Aspects of Lubricants".

CHRONIC:

Although there is no specific data on all the base oil components, by comparison with base oils of similar composition and refining history the base oils would not be expected to demonstrate carcinogenic potential. The base oil component which has been tested has been subjected to a skin painting bioassay using a standard Exxon protocol. This base oil component exhibited no evidence of carcinogenicity.

12. ECOLOGICAL INFORMATION

The following information below reflects expected environmental fate and effects of this formulated product.

ENVIRONMENTAL FATE AND EFFECTS:

ECOTOXICITY:

Available ecotoxicity data (LL50 > 1000 mg/L) indicates that adverse effects to aquatic organisms are not expected from this product.

MOBILITY:

When released into the environment, adsorption to sediment and soil will be the predominant behaviour.

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PERSISTENCE AND DEGRADABILITY:

This product is expected to be inherently biodegradable.

BIOACCUMULATIVE POTENTIAL:

Bioaccumulation is unlikely due to the very low water solubility of this product, therefore bioavailability to aquatic organisms is minimal.

13. DISPOSAL CONSIDERATIONS

Collect and dispose of waste product at an authorised disposal facility, in conformance with national and local regulations, and in accordance with EEC Directives on the disposal of waste oil.

EU WASTE DISPOSAL CODE: 130110

(Note: these codes are assigned based upon the most common uses for this product and may not reflect contaminants resulting from actual use. Purchasers may need to reassign waste disposal codes based on actual use.)

14. TRANSPORT INFORMATION

USUAL SHIPPING CONTAINERS:

Rail cars, tank trucks, drums.

TRANSPORT TEMPERATURE deg. C: Ambient to 40

INTERNATIONAL TRANSPORT REGULATIONS

Not regulated for transport by: land under ADR/RID regulations, inland waterways under ADNR regulations, sea under IMO regulations and air under IATA regulations.

15. REGULATORY INFORMATION

HAZARD

CLASSIFICATION: Not regulated

16. OTHER INFORMATION

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LIBRARY OF RISK PHRASES LISTED IN THIS DOCUMENT: None

SOURCE OF KEY DATA:

The recommendations presented in this Material Safety Data Sheet were compiled from actual test data (when available), comparison with similar products, component information from suppliers and from recognised codes of good practice.

The information and recommendations contained herein are, to the best of our knowledge and belief, accurate and reliable as of the date issued, but are offered without guarantee or warranty. They relate to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

END OF DATA