

# MATERIAL SAFETY DATA SHEET FOR BOSS SOLUBLE CUTTING OIL



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

<b>Product type:</b>	Water Cutting Soluble Fluid
<b>Trade Name:</b>	BOSS Soluble Cutting Oil
<b>Supplier of product:</b>	The BSS Group plc
<b>Registered Office:</b>	Fleet House, Lee Circle, Leicester, LE1 3QQ
<b>Telephone/Fax Numbers:</b>	0116 262 3232 / 0116 253 1343
<b>E-mail Address</b>	reception@bssgroup.com
<b>Web site Address</b>	www.bss-group.co.uk

## 2. HAZARD IDENTIFICATION

<b>Hazard designation:</b>	Not classified as Hazardous under CHIP regulations.
<b>Information pertaining to particular dangers for man and environment:</b>	Not applicable.
<b>Classification system:</b>	The health and environmental hazards of this preparation have been assessed by the conventional method described in annex II and III of the preparations Directive 1999/45 EC.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS.

<b>Dangerous components:</b>					
<b>Hazardous component:</b>	<b>EEC</b>	<b>Cas No.</b>	<b>Index:</b>	<b>Risk Phrases:</b>	<b>Concentration:</b>
<b>Rapeseed Oil Diethanolamide</b>	269-125-8	68187-80-4	Xi	R36/38	5-10%
<b>Sodium Alkaryl Sulphonate</b>		Polymer	Xi, N	R36/38, R51/53	1-5%
<b>N'N Methylene bis Morpholine</b>	227-062-3	5625-90-1	Xn	R22, R36/38	1-5%

**Additional Information:** For the wording of the listed risk phrases refer to section 16.

## 4. FIRST AID MEASURES

<b>Eye Contact:</b>	Flush with plenty of clean water for at least 15 minutes. If irritation persists obtain medical attention.
<b>Skin Contact:</b>	Wash off with water. The application of skin reconditioning (emollient) cream, can be beneficial.
<b>Inhalation:</b>	Remove to fresh air. Keep warm, seek medical advice.
<b>Ingestion:</b>	Milk or water to drink may be beneficial. Do not induce vomiting without medical advice.

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## 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Foam, Dry Powder, CO <sub>2</sub> , Halon, fine water spray suitable.
<b>Unsuitable Extinguishing Media for Reasons of Safety:</b>	Do not use water jets. Do not spray water directly into storage containers due to boil-over danger.
<b>Special Hazards caused by the material, its products of combustion or flue gases:</b>	Not classed as flammable. Combustion can produce a variety of compounds including oxides of carbon, water vapour and unidentified organic and inorganic compounds, some of which may be toxic.
<b>Protective Equipment:</b>	Standard protective equipment. Fire fighters should enter area wearing breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Safety Precautions:</b>	Wear protective equipment. Keep unprotected persons away. Use protective clothing, chemical eye goggles and PVC or rubber gloves.
<b>Measures for Environmental Protection:</b>	Inform authorities in case of contamination of water or sewage system. Do not allow product to soak into drains or water courses.
<b>Methods for cleaning/collecting:</b>	Soak liquid in absorbent material and collect solids in a container. Wash down floor area as spillages can be slippery. Dispose only in accordance with Local Authority regulations, via authorised waste disposal agent.

## 7. HANDLING AND STORAGE:

<b>Handling:</b>	Avoid contact with skin and eyes. Observe good standards of industrial hygiene.
<b>Information for safe handling:</b>	Keep in tightly closed containers. Take note of emission threshold.
<b>Storage:</b>	
<b>Requirements to be met by storerooms and containers:</b>	Store between 10-35°C. Protect from frost.
<b>Information about storage in a common storage facility:</b>	Do not store in extremes of temperature or near foodstuffs.
<b>Specific Uses:</b>	To be used as a metal working fluid.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure limit values</b>	
<b>Occupational exposure controls:</b>	
<b>Respiratory Protection:</b>	Unlikely to be necessary unless operations generate vapour, mist or fumes where the exposure cannot be controlled by local ventilation measures.
<b>Eyes:</b>	Chemical eye goggles should be worn.
<b>Hand:</b>	PVC or rubber gloves are recommended.
<b>Skin:</b>	Use protective clothing. Remove contaminated clothing and wash with soap and water.
<b>Environmental Exposure Controls:</b>	Dispose only in accordance with Local Authority regulations, via authorised waste disposal agent.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Amber Liquid
<b>Odour:</b>	Bland
<b>pH @ 5% in tap water:</b>	9.50 typical
<b>Boiling Point:</b>	>100°C
<b>Flash Point:</b>	>100°C
<b>Flammability:</b>	Non-Flammable
<b>Vapour Pressure:</b>	Water=18mm Hg
<b>Water Solubility:</b>	Forms emulsion
<b>Specific Gravity @ 20°C:</b>	0.90 typical
<b>Freezing Point:</b>	0°C

## 10. STABILITY AND REACTIVITY

<b>Conditions to Avoid:</b>	Naked flames, hot surfaces, other high temperature sources.
<b>Materials to Avoid:</b>	Strong oxidising agents, strong acids. May soften some rubbers and other elastomeric sealing agents.
<b>Hazardous Decomposition:</b>	Product is stable under normal conditions.

## 11. TOXICOLOGICAL INFORMATION

<b>Eye Contact:</b>	Contact is likely to cause moderate irritation and stinging. Dilute emulsion expected to cause only transient irritation.
<b>Skin Contact:</b>	Brief or occasional contact is unlikely to cause any significant reaction. Prolonged or repeated contact with the undiluted product may lead to de-fating of the skin, slight irritation or dermatitis.
<b>Inhalation:</b>	Excessive exposure to mists caused by atomising systems may cause irritation to eyes and respiratory tract.
<b>Ingestion:</b>	Low order of acute toxicity. Ingestion of this product is not regarded as a significant health hazard, likely to arise in normal use. Swallowing of significant quantities may cause discomfort, nausea and irritation of digestive tract.

## 12. ECOLOGICAL INFORMATION

<b>Eco-toxicity:</b>	There is no data available on the product itself.
<b>Mobility:</b>	The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters. Avoid transfer into the environment.
<b>Persistence and Degradability:</b>	The individual components of the product range from readily to poorly biodegradable. The components are not expected to be highly toxic to aquatic life. If released to water, the product may deplete the oxygen supply to bottom dwelling organisms.
<b>Bio-accumulative Potential:</b>	Small quantities will be absorbed into the upper soil layer where bio-degradation takes place. Large quantities may penetrate into anaerobic soil layers in which some organic components (e.g. mineral oil) may persist. Mineral oil can have a potential to bio-accumulate.

## 13. DISPOSAL RECOMMENDATIONS

Product should be disposed of via an authorised waste disposal contractor in accordance with all local and national regulations. Wash out containers with water, running the washings to sewage treatment plant system. Dispose of empty containers in accordance with local and national regulations. Advice can be obtained from the Waste Regulation Authority whether special waste regulations apply to this product.

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## 14. TRANSPORT INFORMATION

Product is not classified as hazardous for transport.

## 15. REGULATORY INFORMATION

<b>Designation according to EC guidelines:</b>	The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (CHIP).
<b>Risk Phrases:</b>	None
<b>Safety Phrases:</b>	S2: Keep out of reach of children S24/25: Avoid contact with eyes and skin
<b>National Regulations:</b>	
<b>Regulations which may apply in event of accident:</b>	
<b>Control of Major Accident Hazards (COMAH)</b>	
Critical quantity values according to the regulations on accidents should be adhered to.	

## 16. OTHER INFORMATION

Do not mix with other chemicals. Do not add other materials to the product or dilute emulsions unless recommended.

Emulsions should be maintained at the recommended concentration in order to minimise health hazards. In particular, water can evaporate leading to an increase in concentration which may in turn lead to an increased likelihood of skin de-fatting and irritation. A refractometer can be used to give a convenient check on emulsion strength. During machining, coolant can become contaminated with tramp oil, metal debris and other contaminants which can solubilise in the emulsion, such as chromium, nickel cobalt. Metal particles can abrade the skin, increasing the potential for irritation to occur, whilst oil and metal contamination can increase the possibility of allergic skin reactions. This product contains mineral oil with a published TLV/OES of 5mg/m<sup>3</sup> as oil mist. It is advisable to control this level below 2-3mg/m<sup>3</sup> to minimise discomfort and nuisance complaints.

The information provided in this data sheet has been compiled in accordance with the requirements of the Chemicals (Hazard information and packaging) Regulations 2002 (CHIP 3).

This data sheet does not constitute an assessment of the workplace risks as required under the provisions of the Health & Safety at Work act and the Control of Substances Hazardous to Health (COSHH).

### **R - Phrases relevant to the products hazardous ingredients:**

R22: Harmful if swallowed

R36/38: Irritating to eyes & skin

R51/53: Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment

**Training Advice:** Users should be trained in good industrial hygiene practice.

## 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.