

SAFETY DATA SHEET



SCO/5L SOLUBLE CUTTING OIL

1. SUPPLIER

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2. APPLICATION

Non phenolic milky soluble oil - Emulsifiable metalworking fluid.
For specific application advice see appropriate Technical Data Sheet

3. COMPOSITION/INFORMATION OF INGREDIENTS

Distilled Tall Oil 1 - 10%
EINECS: 2323046, CAS: 8002-26-4
Baseoil - unspecified - Distillates (petroleum), Hydrotreated Heavy Naphthenic 70-90%
EINECS: 265-155-0, CAS 8002-26-4
Diethenolamide 1-10%
(Xi) R36/38
2-(2-Butoxyethoxy) Ethanol 1-10%
EINECS: 203-961-6, CAS: 000-112-34-5
(Xi) R36
Naphthenic Acid 1-10%
EINECS: 215-662-8, CAS: 1338-24-5

4. HAZARD IDENTIFICATION

No significant hazard

5. FIRST AID MEASURES

Eyes: Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.
Skin: Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.
Ingestion: If contamination of the mouth occurs, wash out thoroughly with water, and send to hospital immediately. Show this data sheet to the physician.
Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, do not induce vomiting; obtain medical advice.
Inhalation: Remove to fresh air. If rapid recovery does not occur, obtain medical advice.
Medical Advice: Treatment should in general be symptomatic and directed to relieving any effects.

6. FIRE-FIGHTING MEASURES

Extinguishing Media: -Large Fire Foam/water fog- NEVER USE WATER JETS
-Small fire Foam/Dry Powder/APFF/CO2/Sand/Earth

Exposure Hazards: Due to its high water content, Sealey Soluble Cutting Oil will not burn, however on the loss of water in a fire the remaining materials will support combustion. Toxic fumes may be evolved on burning or exposure to heat.

Protection of Fire-Fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

7. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to section 8 for personal protection details. Turn leaking containers leaks side up to prevent the escape of liquid.

Environmental Precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up Procedures: LARGE SPILLS - should be banded by a suitable medium, such as sand or earth. The material should be reclaimed directly or indirectly in an absorbent medium and then transferred to suitable clearly marked containers and disposed of in accordance with local byelaws and the requirements of the Environmental Protection Act 1990.

SMALL SPILLS - should be soaked up with sand or earth and disposed of as for large spills.

8. STORAGE AND HANDLING

Handling Precautions: Sealey Soluble Cutting Oil does not require any special handling techniques, but it should be handled in suitable containers and spillage avoided.

Storage Conditions: The storage of Sealey Soluble Cutting Oil is not subject to any special controls or restrictions. It should be stored in properly designed sealable, labelled containers, eg mild steel or high density polyethylene.

9. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hazardous Ingredients:

Distilled Tall Oil

TWA 10mg/m³

Baseoil - unspecified - Distillates (petroleum), Hydrotreated Heavy Naphthenic

TWA 5mg/m³

Diethenolamide

TWA 5mg/m³ STEL 10mg/m³

Engineering Measures: Ensure there is sufficient ventilation of the area.

Respiratory Protection: Respiratory protection is not required.

Hand Protection: Protective Gloves.

Eye Protection: Safety glasses. Ensure eye bath is to hand.

Skin Protection: Protective clothing.

Protective Clothing: Wear face visor or goggles in circumstances where eye contact can accidentally occur.

If skin contact is likely, wear impervious protective clothing and/or gloves.

Protective clothing should be regularly dry cleaned. Change heavily contaminated clothing as soon as reasonably practicable; dry clean, launder and preferably starch before re-use. Wash any contaminated underlying skin with soap and water.

10. PHYSICAL & CHEMICAL PROPERTIES

(Please note: These properties are for guidance only. They do not constitute a specification)

Typical Values

Physical State Liquid

Colour Amber

Odour Characteristic

Relative Density 0.900

Solubility in Water Soluble

Flash Point >150°C

pH 9.5@5%

11. STABILITY & REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Extremes of temperature - Store between 0° and 30 °C. Protect from frost.

Materials to avoid: Strong oxidising agents eg chlorates which may be used in agriculture.

May soften some rubbers and other elastomeric containing materials.

Strong acids.

Decomposition Products: In combustion, emits toxic fumes.

Thermal decomposition products will vary with conditions

The following substances may be expected from normal combustion:-

Carbon dioxide	Polycyclic aromatic hydrocarbons
Carbon monoxide	Unburnt hydrocarbons
Water	Unidentified organic & inorganic compounds
Particulate matter	Nitrogen oxides
Sulphur oxides	

12. TOXICOLOGICAL INFORMATION

Hazardous ingredients:

Distilled Tall Oil

Oral RAT LD50 21.5ml/Kg

2-(2-Butoxyethoxy)ethanol

Oral RAT LD50 >2000mg/Kg

Naphthenic Acid

Oral RAT LD50 3.0mg/Kg

Acute Health Hazards & Advice: Toxicity following single exposure to high levels (orally, dermally, or by ingestion) is of a low order. The main hazards are in the unlikely event of ingestion, aspiration into the lungs with possible resultant chemically induced pneumonia and if the products are handled at high pressure, of high pressure injection injuries.

Eyes: Eye contact may cause some discomfort. Flush the eye with copious quantities of water. If the irritation persists refer for medical attention. If there is a risk of splashing whilst handling this liquid appropriate eye protection should be worn

Skin: Skin contact presents no acute health hazard, except in the case of high pressure injection injuries. These can lead to the loss of the affected limbs if not treated immediately and properly. Avoid contact with the skin by the use of suitable protective clothing. Where skin contact is unavoidable, a high standard of personal hygiene should be practiced. Extreme care should be exercised where the product is likely to be encountered at high pressures, when it is recommended that safe systems of work be employed. Skin contact does not normally require first aid, but oil soaked clothing should be removed, and contaminated skin washed with soap and water.

If persistent irritation occurs, medical advice should be sought without delay

Ingestion: The main hazard following ingestion is of aspiration into the lungs during subsequent vomiting.

Accidental ingestion is unlikely. Normal handling and hygiene precautions should be taken to avoid ingestion

Do NOT induce vomiting. If ingestion is suspected, wash out the mouth with soap and water, and send to hospital immediately. Show this data sheet to the physician drawing attention to the "Notes for Doctors" below.

Inhalation: Under normal conditions of use inhalation of vapours is not likely to present a hazard.

Care should be taken to keep exposures below applicable occupational exposure limits by the use of general or local ventilation.

If this cannot be achieved, use of a respirator fitted with an organic vapour cartridge combined with a particulate pre-filter.

Remove to fresh air. If rapid recovery does not occur, obtain medical attention.

CHRONIC HEALTH HAZARD & ADVICE:

Prolonged and repeated contact with oil products can be detrimental to health. The main hazards arise from skin contact and the inhalation of mists. Skin contact under conditions of poor hygiene and over prolonged periods can lead to defatting of the skin, dermatitis, erythema, oil acne, and oil folliculitis. Excessive and prolonged inhalation of oil mists may cause a chronic inflammatory reaction of the lungs and a form of pulmonary fibrosis.

13. ECOLOGICAL INFORMATION

Hazardous ingredients: Distilled Tall Oil

FISH Zebra fish 96H LC50 5-10 mg/l

Mobility: Readily absorbed into soil

Bio-accumulative potential: No bioaccumulation potential

Other adverse effects: Negligible ecotoxicity.

Air: Mineral base oil is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. The negligible quantities that do evaporate react quickly with hydroxyl radicals and ozone.

Water: If released to water, Sealey Soluble Cutting Oil will disperse as an emulsion. Its components will not evaporate to any great extent. Dissolved components will be absorbed in sediments. In aerobic water and sediments they will biodegrade, but in anaerobic conditions they will persist. Mineral base oil is not toxic to aquatic organisms but all components have a high potential to bio-accumulate. It is unlikely to persist in the aquatic environment for sufficient time to pose a significant hazard.

Soil: Small volumes released on land will be absorbed in the upper soft layers and be subject to biodegradation. Larger volumes may penetrate into anaerobic soil layers in which the mineral base oil will persist. It may reach the water table, in which it will disperse. The high soil absorption coefficient of the components may prevent significant contamination of the ground water. The product will move with the groundwater. The movement of the product can lead to the contamination of sources of drinking water. Mineral base oil has a high potential to bio-accumulate.

14. DISPOSAL CONSIDERATIONS

Dispose of via an authorised person/licensed waste disposal contractor in accordance with local regulations.

Under no circumstances should this material be discharged into the public drainage system, or marine and inland waterways.

15. TRANSPORT INFORMATION

Not dangerous for transportation.

16. REGULATORY INFORMATION

Hazard symbols: No significant hazard

Safety phrases: S2: Keep out of the reach of children.

S24/25: Avoid contact with skin and eyes.

S28: After contact with skin, wash immediately with plenty of water.

S36: Wear suitable protective clothing.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

17. OTHER INFORMATION

The above classification applies only to the undiluted product.

Risk phrases used in section 2:

R36/38: Irritating to eyes and skin.

R36: Irritating to eyes.

R36/37/38: Irritating to eyes, respiratory system and skin.

The information given above does not constitute the users own assessment of workplace risk as required by the Health & Safety at Work Act (1974), C.O.S.H.H. Regulations (1988). The data given is considered accurate and is based upon current knowledge and experience. No warranty is expressed or implied with regard to the products properties. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission, recommendation or authorization given or implied to practise any patented invention without a valid licence.

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