



OAK INDUSTRIAL SUPPLIES

“THE INDUSTRIAL SUPPLIES PEOPLE”

HEALTH & SAFETY DATA SHEET

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DATA SHEET NO - 2348

IDENTIFICATION OF SUBSTANCE OR PREPARATION

PRODUCT NAME: Solo Universal Cutting Fluid

NAME OF SUPPLIER: Oak Industrial Supplies
Hamilton Road
Sutton in Ashfield
Nottinghamshire
NG17 5LN

BUSINESS TEL NO: 01623 442222

EMERGENCY TEL NO: 01484 713201

INFORMATION ON INGREDIENTS

General: This product is a mixture of severely refined mineral oils, chlorinated EP additives, emulsifiers, nitrite free corrosion inhibitors, microbe control agents and lubricity agents.

HAZARDS IDENTIFICATION

Health & Safety Hazards: Eye contact with undiluted product may cause irritation, there may be potential to cause corneal injury if treatment is not prompt. The undiluted product may be irritating to the skin, especially if the material is not removed promptly.

Environmental Hazards: The product contains mineral oil which will not readily biodegrade in anaerobic conditions and therefore can be environmentally persistent.

Special Hazards Of Product In Use: During use as a metalworking fluid it may become contaminated with metal particles and metal salts. These may increase the irritant nature of some emulsions, and in odd cases (eg contaminated by chromium, cobalt and nickel) may be capable of inducing allergic skin reactions.

FIRST AID MEASURES

Eyes: Immediately wash eye thoroughly with plenty of clean water. For contact with undiluted fluid, obtain prompt medical attention. For contact with diluted fluid, obtain medical attention if irritation persists.

Skin: Following contact with the undiluted product, wash thoroughly with soap and water without delay. Remove heavily contaminated clothing before reuse. If irritation persists obtain medical advice.

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FIRST AID MEASURES cont.

Ingestion: DO NOT INDUCE VOMITING. Wash out mouth with water and obtain medical attention. Treat symptomatically. If aspiration is suspected obtain immediate medical attention.

Pressure Injection: Always obtain immediate medical attention.

FIRE FIGHTING MEASURES

Flammability: May support combustion in serious fire.

Extinguishing Media: Foam, Dry Powder, CO₂, Sand or Earth.

ACCIDENTAL RELEASE MEASURES

Always prevent entry into drains or watercourses. Spillages can be slippery.

Small spills: Soak in absorbent granules or sand.

Large spills: Bund using absorbent granules, sand or earth and reclaim bulk liquid.

Disposal of spillage: Via authorised waste disposal contractor. Disposal must be in accordance with the Environmental Protection Act 1990.

STORAGE AND HANDLING

Storage: Store in dry conditions between 0 and 40°C

Handling: Avoid contact with skin and eyes with undiluted product, by wearing goggles or face mask and oil impervious gloves.

EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits: The product does not have an established Occupational Exposure Standard (OES) or Maximum Exposure Limit (MEL)

Eyes: Wear goggles or face mask when handling the undiluted product.

Skin: Wear impervious gloves when handling the undiluted product. Prolonged or repeated contact with diluted metalworking fluid is often unavoidable – in such circumstances, the use of barrier and after work creams may be beneficial. **Change contaminated clothing and overalls as soon as possible.**

Inhalation: Respiratory protection is not normally required.

Industrial Hygiene: Wash hands after use, before eating, drinking or smoking and before and after using the toilet.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown fluid
Odour:	Mild
Specific Gravity @ 15°C:	0.95
Solubility In Water:	Miscible
Flash Point:	> 100°C
PH:	8.8 – 9.2 at 5%
Melting Point (°C):	<0

STABILITY AND REACTIVITY

Stability: This product is stable and unlikely to react in a hazardous manner under normal conditions of use.

Conditions to Avoid: Extremes of temperature (store between 0 and 40°C)

Materials to Avoid: Strong oxidising agents.

STABILITY AND REACTIVITY cont.

Decomposition Products: Thermal decomposition can produce various compounds, depending on the conditions in which decomposition took place. Depending on the temperature and the level of oxygen available products of decomposition may be carbon, oxides of carbon and nitrogen, partially oxidised organic compounds, water and other unidentifiable organic and inorganic compounds.

TOXICOLOGICAL INFORMATION

Eyes: Eye contact with undiluted product may cause moderate irritation and stinging. There may be a potential to cause corneal injury if treatment is not prompt. Dilute emulsions are expected to cause only slight transient irritation or redness.

Skin: The undiluted product in occasional skin contact is unlikely to cause any significant reaction. Prolonged contact with undiluted product may cause defatting of skin barrier, leading to cracking and soreness.

Inhalation: The product is unlikely to present any significant hazard at ambient temperatures. High temperatures or atomising systems may lead to generation of vapours, mists or fumes which could cause irritation to eyes and respiratory tract. Repeated excessive exposure to oil mists may cause respiratory damage and a condition resembling pneumonia.

Ingestion: The product has a low order of acute oral toxicity, ingestion is not regarded as a significant health hazard likely to arise in normal use.

Aspiration: Aspiration into the lungs caused by vomiting following ingestion can be hazardous with possible resultant chemically induced pneumonia.

ECOLOGICAL INFORMATION

Water: The individual components range from readily to poorly biodegradable. Mineral oil itself has limited biodegradability when tested by method CEC L-33-T-82. 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. Nitrosamines may be formed with the nitrogen content in the water or in the presence of nitrites.

Soil: Small quantities will be absorbed in the upper soil layers where biodegradation may take place. When biodegraded the product will form borate salts which are naturally occurring in soil and sea, but may be phytotoxic to some micro-organisms.

DISPOSAL CONSIDERATIONS

All means of disposal should comply with local regulations and the Environmental Protection Act 199. Dispose of product and containers carefully and responsibly. Do not allow product to contaminate ponds, water courses, soil or drains. Do not dispose of undiluted product or untreated emulsions down the drains.

Undiluted product: The product may be incinerated in suitable equipment and under controlled conditions. Alternatively, the product can be disposed of via an authorised person/licensed waste disposal contractor.

Diluted product: Dispose of via an authorised person/licensed waste disposal contractor. It should not be discharged into sewage systems without the approval of the appropriate local authority and without checking for compliance with issued consent conditions. Further treatment may be required.

TRANSPORT INFORMATION

Not classified as dangerous for conveyance.

REGULATORY INFORMATION

Not classified as dangerous for supply.

OTHER INFORMATION

- (1) Solutions should be maintained at the recommended concentrations in order to minimise any health hazards.
- (2) Minimise tramp oil and other contaminations, remove metallic swarf or other debris from machines at frequent intervals.
- (3) During machining, emulsions may become contaminated with certain metals which are present in the workpieces or tools. These may dissolve in the emulsions. Some of these contaminants, such as chromium, nickel or cobalt may induce allergic reactions.

Legal Disclaimer: The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.

26th February 2001
REVISED
25th February 2003