1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** SOLUBLE CUTTING OIL HD
- **Article number:** 6074
- **Application of the substance / the preparation:** Metal working

- **Manufacturer/Supplier:**
  Smith & Allan
  Valley Street North
  Darlington
  County Durham
  DL1 1QE
  Tel: 01325 462228
  Fax: 01325 368122
  e-mail: enquiries@smithandallan.com

- **Further information obtainable from:** Product safety department.
- **Information in case of emergency:** Tel: 01325 462228

2 Hazards identification

- **Hazard description:**

  Xi Irritant

- **Information concerning particular hazards for human and environment:**
  The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
  R 36 Irritating to eyes.

- **Classification system:**
  The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**
  **Description:** A blend of highly refined mineral oils with multifunctional additives.

<table>
<thead>
<tr>
<th>Dangerous components</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highly refined mineral oil</td>
<td>50-100%</td>
</tr>
<tr>
<td>Fatty acid soaps</td>
<td>Xi; R 36/38 2.5-10%</td>
</tr>
<tr>
<td>Sodium sulphonate</td>
<td>Xi; R 41 2.5-10%</td>
</tr>
<tr>
<td>CAS: 112-34-5 EINECS: 203-961-6</td>
<td>2-(2-Butoxyethoxy)ethanol Xi; R 36 2.5-10%</td>
</tr>
<tr>
<td>CAS: 68855-56-1 EINECS: 272-490-6</td>
<td>Alcohols, C12-16 N; R 50 ≤ 2.5%</td>
</tr>
<tr>
<td>CAS: 68603-39-4</td>
<td>Fatty acid alkylolamide polyethoxylate Xi; R 36/38 ≤ 2.5%</td>
</tr>
</tbody>
</table>

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

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
  Immediately wash with water and soap and rinse thoroughly.
  If skin irritation continues, consult a doctor.

(Contd. on page 2)
Trade name: SOLUBLE CUTTING OIL HD

- **After eye contact:**
  Check for and remove any contact lenses.
  Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing:**
  Wash mouth out with water
  Do not induce vomiting; call for medical help immediately.

- **Information for doctor:**
  High pressure injection injuries through the skin require prompt surgical intervention and possibly steroid therapy, to minimise tissue damage and loss of function. Because entry wounds are small and do not reflect the seriousness of the underlying damage, surgical exploration to determine the extent of involvement may be necessary. Local anaesthetics or hot soaks should be avoided because they can contribute to swelling, vasospasm and ischaemia. Prompt surgical decompression, debridement and evacuation of foreign material should be performed under general anaesthetics, and wide exploration is essential.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**
  CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Protective equipment:**
  Wear self-contained respiratory protective device.
  Wear fully protective suit.
  Do not inhale explosion gases or combustion gases.

### 6 Accidental release measures

- **Person-related safety precautions:** Particular danger of slipping on leaked/spilled product.

- **Measures for environmental protection:**
  Do not allow to penetrate the ground/soil.
  Do not allow product to reach sewage system or any water course.

- **Measures for cleaning/collecting:**
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Send for recovery or disposal in suitable receptacles.

### 7 Handling and storage

- **Handling:**
  **Information for safe handling:**
  Prevent formation of aerosols.
  Ensure good ventilation/exhaustion at the workplace.

- **Information about fire - and explosion protection:** No special measures required.

- **Storage:**
  **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
  **Information about storage in one common storage facility:** Store away from oxidizing agents.
  **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**
  **Highly refined mineral oil**

<table>
<thead>
<tr>
<th>OEL</th>
<th>Short-term value: 10 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term value: 5 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

- **Additional information:** The lists valid during the making were used as basis.
Personal protective equipment:
Select PPE appropriate for the operations taking place taking into account the product properties.

General protective and hygienic measures:
Do not carry product impregnated cleaning cloths in trouser pockets.
Do not eat, drink, smoke or sniff while working.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid close or long term contact with the skin.

Respiratory protection: Not required.

Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:
Tightly sealed goggles

Body protection: Oil resistant protective clothing

9 Physical and chemical properties

General Information
Form: Fluid
Colour: Brown
Odour: Mineral-oil-like

Change in condition
Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.

Flash point: > 100°C
Ignition temperature: >250°C
Self-igniting: Product is not selfigniting.
Danger of explosion: Product does not present an explosion hazard.
Density at 20°C: 0.917 g/cm³
Solubility in / Miscibility with water: Emulsifiable.
PH-value (50 g/l) at 20°C: 9.6

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.

Dangerous reactions No dangerous reactions known.
Trade name: SOLUBLE CUTTING OIL HD

- Dangerous decomposition products:
  Carbon monoxide and carbon dioxide
  Sulphur dioxide

11 Toxicological information

- Acute toxicity:
- Primary irritant effect:
  - on the skin: No irritant effect.
  - on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
  The Control of Substances Hazardous to Health Regulations (COSHH) requires exposure to metalworking fluids by inhalation, ingestion or skin contact to be prevented where reasonably practicable, or failing that, adequately controlled.
  Exposure to metalworking fluids can cause irritation of the skin, dermatitis and breathing problems following repeated exposure. Additionally, if not controlled properly, fluid systems that contain water-mixes can become highly contaminated with microorganisms. These organisms, their metabolites and their remains can affect human health if they should enter the breathing zones of workers and other persons leading to chronic respiratory diseases. Such contamination of fluids and associated machinery and pipework must be appropriately monitored and controlled. Direct means of measuring such contamination must be used in conjunction with other relevant checks on fluid quality. Also, systems containing water-mixes must be appropriately cleaned on a regular basis.
  Refer to the FUCHS Lubricants guidance "Effective Fluid Monitoring" and "Coolant Management Guide" for further information.
  The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
  Irritant

12 Ecological information

- Behaviour in environmental systems:
- Mobility and bioaccumulation potential: Product is not expected to bioaccumulate.
- Ecotoxicological effects:
- Other information: Mineral oil component expected to be inherently biodegradable.

13 Disposal considerations

- Product:
- Recommendation
  Contact waste processors for recycling information.
  Delivery of waste oil to officially authorized collectors only.
  Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.
- European waste catalogue
  Waste key numbers in accordance with the European Waste catalogue (EWC) are origin-referred defined. Since this product is used in several industries, no waste key can be provided by the supplier. The waste key number should be determined in arrangement with your waste disposal partner or the responsible authority.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.
Trade name: SOLUBLE CUTTING OIL HD

14 Transport information

- Land transport ADR/RID (cross-border)
- ADR/RID class: -

- Maritime transport IMDG:
- IMDG Class: -
- Marine pollutant: No

- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: -

15 Regulatory information

- Labelling according to EU guidelines:
  Observe the general safety regulations when handling chemicals.
  The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- Code letter and hazard designation of product:
  Xi Irritant

- Risk phrases:
  36 Irritating to eyes.

- Safety phrases:
  25 Avoid contact with eyes.
  26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- National regulations:

<table>
<thead>
<tr>
<th>Class</th>
<th>Share in %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>3.0</td>
</tr>
<tr>
<td>NK</td>
<td>3.4</td>
</tr>
</tbody>
</table>

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant R-phrases
  36   Irritating to eyes.
  36/38 Irritating to eyes and skin.
  41   Risk of serious damage to eyes.
  50   Very toxic to aquatic organisms.

- Department issuing MSDS: Product safety department.