SAFETY DATA SHEET
1-OCTEN-3-ONE

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME
1-OCTEN-3-ONE

PRODUCT NO.
00250

SUPPLIER
OXFORD CHEMICALS LTD
North Gare, Seaton Carew
Hartlepool
TS25 2DT
+44 (0) 1429 863555
+44 (0) 1429 867567

FEMA No
3515

2 COMPOSITION/INFORMATION ON INGREDIENTS

EC (EINECS) NO.
224-327-5

GROSS FORMULA
C₈ H₁₄ O

CAS-NO.
4312-99-6

COMPOSITION COMMENTS
The Data Shown is in accordance with the latest EC Directives.

3 HAZARDS IDENTIFICATION

CLASSIFICATION
Xi,R36/37/38. R10.

PHYSICAL AND CHEMICAL HAZARDS
The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

HUMAN HEALTH
In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.

4 FIRST-AID MEASURES

GENERAL INFORMATION
General first aid. rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious. Get medical attention if any discomfort continues.

INHALATION
Place unconscious person on the side in the recovery position and ensure breathing. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.

INGESTION
Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and take these instructions.

SKIN CONTACT
Immediately remove contaminated clothing. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

EYE CONTACT
Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention promptly if symptoms occur after washing.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA
Use: Alcohol resistant foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc. DO NOT use water if avoidable.

UNUSUAL FIRE & EXPLOSION HAZARDS
Fire causes formation of toxic gases.

SPECIFIC HAZARDS
The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

PROTECTIVE MEASURES IN FIRE
Self contained breathing apparatus and full protective clothing must be worn in case of fire.
1-OCTEN-3-ONE

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS
Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

SPILL CLEAN UP METHODS
Keep combustible materials away from spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Wash contaminated area with water. Wash thoroughly after dealing with a spillage.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS
Keep away from heat, sparks and open flame. Do not use contact lenses. Avoid spilling, skin and eye contact. Eye wash facilities and emergency shower must be available when handling this product. During application and drying, solvent vapours will be emitted.

STORAGE PRECAUTIONS
Store in tightly closed original container in a dry and cool place. Store under well-ventilated conditions at a temperature below 25°C.

STORAGE CLASS
Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT COMMENTS
WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT

PROCESS CONDITIONS
Provide eyewash station.

ENGINEERING MEASURES
Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

RESPIRATORY EQUIPMENT
No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

HAND PROTECTION
Protective gloves and goggles must be used if there is a risk of direct contact or splash.

EYE PROTECTION
Contact lenses should not be worn when working with this chemical. Wear approved safety goggles.

OTHER PROTECTION
Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station and safety shower.

HYGIENE MEASURES
Wash promptly if skin becomes contaminated. Promptly remove non-impervious clothing that becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPEARANCE</td>
<td>Liquid</td>
</tr>
<tr>
<td>COLOUR</td>
<td>Colourless to pale yellow</td>
</tr>
<tr>
<td>ODOUR</td>
<td>Earthy Mushroom</td>
</tr>
<tr>
<td>SOLUBILITY</td>
<td>Insoluble in water Soluble in Organic solvents</td>
</tr>
<tr>
<td>MOL. WEIGHT</td>
<td>126.2</td>
</tr>
<tr>
<td>RELATIVE DENSITY</td>
<td>0.842 - 0.853 20</td>
</tr>
<tr>
<td>FLASH POINT (°C)</td>
<td>35 CC (Closed cup)</td>
</tr>
<tr>
<td>BOILING POINT (°C)</td>
<td>166 - 167 atm</td>
</tr>
<tr>
<td>VAPOUR DENSITY (air=1)</td>
<td>4.3</td>
</tr>
<tr>
<td>REFRACTIVE INDEX</td>
<td>1.432 - 1.439</td>
</tr>
</tbody>
</table>

10 STABILITY AND REACTIVITY
1-OCTEN-3-ONE

STABILITY
No particular stability concerns.

CONDITIONS TO AVOID
Avoid heat, flames and other sources of ignition. Avoid contact with acids and oxidising substances.

HAZARDOUS DECOMPOSITION PRODUCTS
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11 TOXICOLOGICAL INFORMATION

INHALATION
Irritating to respiratory system.

INGESTION
No specific health warnings noted.

SKIN CONTACT
Irritating to skin.

EYE CONTACT
Irritating to eyes.

12 ECOLOGICAL INFORMATION

ECOTOXICITY
No data on possible environmental effects have been found.

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION
Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

DISPOSAL METHODS
Absorb in vermiculite or dry sand, dispose in licensed special waste. Make sure containers are empty before discarding (explosion risk).

14 TRANSPORT INFORMATION

PROPER SHIPPING NAME: KETONES, LIQUID, N.O.S. [1-OCTEN-3-ONE]

UN NO. ROAD: 1224
ADR PACK GROUP: III

ADR CLASS NO: 3
HAZARD NO. (ADR): 30

HAZCHEM CODE: 3[Y]
IMDG CLASS: 3.3
IMDG PACK GR.: III
MFLAG: 300
AIR CLASS: 3

15 REGULATORY INFORMATION

LABELLING
1-OCTEN-3-ONE

RISK PHRASES
R10 Flammable.
R36/37/38 Irritating to eyes, respiratory system and skin.

SAFETY PHRASES
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eyewaface protection.

STATUTORY INSTRUMENTS
Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE
Classification and Labelling of Substances and Preparations Dangerous for Supply, Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES
Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

NATIONAL REGULATIONS

16 OTHER INFORMATION

GENERAL INFORMATION
The information in this MSDS was obtained from current and reputable sources. However, this data is provided without any warranty, express or implied, regarding its correctness or accuracy. It does not constitute a material specification for the product. The absence of any express statement in this MSDS does not imply that this product may be in contact with any other material without hazard or risk of injury or damage. It is the user's responsibility both to determine safe conditions for the use of this product and to assume liability for injury or damage resulting from improper use of this product. This MSDS supercedes all previous MSDS issues which should be discarded immediately.

ISSUED BY
D Symmonds

REVISION DATE 09/06/2006
REV. NO./REPL. SDS GENERATED 4

SAFETY DATA SHEET STATUS
Approved

DATE 24-03-98

DISCLAIMER
This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials 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, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.