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## Section 1. Identification

**1.1 Product Identifier** 4924

Product Name OCT-1-ENE

CAS Number 111-66-0

REACH Registration No 01-2119486877-14-XXXX

Molecular Formula  $C_8H_{10}$

### 1.2 Relevant identified uses of the substance or mixture & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

### 1.3 Supplier



Vickers Laboratories Ltd  
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**1.4 Emergency Telephone** (08:00-16:30) +44(0) 113 2362811  
(24hr) 112  
(Have this document to hand)

## Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

#### Classification according to regulation 1272/2008/EC

Flammable liquid, category 2

Aspiration hazard, category 1

Hazard to aquatic environment, category 1

H225: Highly flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



|                                      |   |
|--------------------------------------|---|
| Hazard Statements                    | Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects.   |
| Precautionary Statements             | Keep container tightly closed. Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. |
| Supplemental Hazard Information (EU) | Repeated exposure may cause skin dryness or cracking.   |

## Section 3. Composition

### 3.1 Substances

| Component | CAS No.  | EEC No.   | REACH No.             | Conc w/w | CLP Classification (1272/2008/CE)            |
|-----------|----------|-----------|-----------------------|----------|--|
| Oct-1-ene | 111-66-0 | 203-893-7 | 01-2119486877-14-XXXX | 98%      | Flam. Liq. 2, Asp. Tox. 1, Aquatic Chronic 1 |

## Section 4. First Aid

### 4.1 Description of first aid measures

|                                      |   |
|--------------------------------------|---|
| Eyes                                 | Flush with water for at least 15 minutes and contact physician.                                     |
| Skin                                 | Thoroughly wash off skin with soap and water.   |
| Inhalation                           | Remove from exposure. If breathing stops or shows signs of failing, apply artificial resuscitation. |
| Ingestion                            | Do not induce vomiting. If conscious wash out mouth with water.                                     |
| Personal protection for first aiders | Wear protective gloves / eye protection.  |

### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

## Section 5. Fire Fighting

### 5.1 Extinguishing media

|                     |  |
|---------------------|--|
| Extinguishing Media | Alcohol resistant foam, dry powder, or carbon dioxide. |
| Unsuitable Media    | Nothing specified.                                     |

### 5.2 Special hazards arising from the substance or mixture

|         |                                   |
|---------|-----------------------------------|
| Hazards | Presents no specific fire danger. |
|---------|-----------------------------------|

### 5.3 Advice for firefighters

|                         |   |
|-------------------------|---|
| Advice for firefighters | Use water spray to keep fire exposed containers cool. |
|-------------------------|---|

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

|                     |   |
|---------------------|---|
| Personal Protection | Wear appropriate protective clothing. Evacuate area immediately. Ensure no sources of ignition. Beware : vapour is heavier than air and will tend to accumulate at low spots. |
|---------------------|---|

### 6.2 Environmental precautions

|               |   |
|---------------|---|
| Environmental | Keep material out of sewers, storm drains, surface waters and soil. |
|---------------|---|

### 6.3 Methods and material for containment and cleaning up

|                |  |
|----------------|--|
| Major Spillage | Cover spill with wet earth or sand and transfer to steel container for disposal. Ventilate area and wash spill site after material pickup is complete. Beware of accumulation of vapour which is heavier than air. |
|----------------|--|

Minor Spillage

Contain and absorb on inert material. Transfer absorbent to container for removal. Wash area down with detergent and copious amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing. Keep away from sources of ignition. All transfer systems should be earthed to prevent accumulation of static electricity.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry, fireproof location. Keep container tightly closed.

### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

| Component | CAS No   | Concentration | Workplace Exposure Limits |                         |   |
|-----------|----------|---------------|---------------------------|-------------------------|---|
|           |          |               | Long Term (8hr TWA)       | Short Term 15min period |   |
| Oct-1-ene | 111-66-0 | 98%           | -                         | -                       | - |

Exposure data source(s) No occupational exposure data currently available.

### 8.2 Exposure controls

|                        |   |
|------------------------|---|
| Respiratory Protection | Use L.E.V. or natural ventilation to reduce vapour concentrations to a minimum.           |
| Hand Protection        | Use nitrile gloves or PVC gauntlets.  |
| Eye Protection         | Use tightly fitting chemical splash proof glasses or goggles.                             |
| Skin Protection        | If skin contact or contamination of clothing is likely, protective clothing must be worn. |
| Special Hazards        | No special precautions required.  |

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

|                       |   |
|-----------------------|---|
| Appearance            | Clear colourless liquid   |
| Odour                 | Characteristic.   |
| pH                    | Not applicable  |
| Boiling Point         | Not applicable  |
| Melting Point         | -101.7°C  |
| Flash Point           | 8°C (Closed cup)  |
| Upper Flammable Limit | 6.8%  |
| Lower Flammable Limit | 0.7%  |
| Auto Ignition         | Not applicable  |
| Explosive Properties  | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| Oxidising Properties  | No.   |
| Vapour Pressure       | Not applicable  |
| Relative Density      | Not available   |
| Water Solubility      | Insoluble in water.   |

### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

|      |                                    |  |
|------|------------------------------------|--|
| 10.1 | Reactivity                         | No data available.   |
| 10.2 | Chemical Stability                 | Stable under normal conditions   |
| 10.3 | Possibility of hazardous reactions | No data available.   |
| 10.4 | Conditions to Avoid                | Hot surfaces, naked flames or other sources of ignition. Avoid exposure to heat and strong sunlight. |
| 10.5 | Incompatible Materials             | Bromine. Chlorine. Acids.  |
| 10.6 | Hazardous Decomposition Products   | Burning will produce smoke, carbon monoxide and/or carbon dioxide.                                   |

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

|                      |   |
|----------------------|---|
| Eyes                 | Both the vapour and liquid will, act as an eye irritant. Repeated exposure to the vapours can lead to reversible corneal changes and conjunctivitis   |
| Skin                 | The liquid is mildly irritating to the skin. Repeated or prolonged contact may defat the skin producing irritation and dermatitis.  |
| LD50 Skin            | >2000mg/kg Rabbit   |
| Ingestion            | Ingestion will cause causes damage to stomach and intestinal linings.   |
| LD50 Oral            | >10000mg/kg Rat   |
| Inhalation           | Exposure to vapour concentrations above the occupational exposure limits will cause narcosis. Prolonged exposure to vapour concentrations above the occupational exposure limits will cause headache, nausea, vomiting and irritation of the mucous membranes. High concentrations of vapour may produce central nervous system depression and unconsciousness. |
| LD50 Inhalation      | 40.2mg/l Rat (4 hours)  |
| TCLo                 | Not available   |
| Carcinogenicity      | Not considered to be a carcinogen.  |
| Mutagenicity         | Not considered to be a mutagen.   |
| Reproductive Effects | None identified.  |

## Section 12. Ecological

|      |                                  |   |
|------|----------------------------------|---|
| 12.1 | Toxicity                         | Very toxic to aquatic life with long lasting effects. |
|      | LC50 Algal                       | Not available   |
|      | LC50 Crustacea                   | Not available   |
|      | LC50 Fish                        | Not available   |
| 12.2 | Persistence and degradability    | No data available.                                    |
| 12.3 | Bioaccumulative potential        | No data available.                                    |
| 12.4 | Mobility in soil                 | No data available.                                    |
| 12.5 | Results of PBT & vPvB assessment | Assessment not required.                              |
| 12.6 | Other adverse effects            | None known at present.                                |

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

|                        |  |
|------------------------|--|
| Disposal Methods       | Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. Never dispose of into water courses or sewerage systems due to high risk of explosion. |
| Contaminated Packaging | Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion.   |

## Section 14. Transport Information

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| 14.1 UN Number                    | 3295                                  |
| 14.2 Proper Shipping Name         | Hydrocarbons, liquid, N.O.S. (Octene) |
| 14.3 Transport classes            |                                       |
| UN classification                 | 3                                     |
| Subsidiary hazard(s)              | None                                  |
| Transport category                | 2                                     |
| ADR Hazard ID                     | 33                                    |
| Tunnel Restriction Code           | D/E                                   |
| 14.4 Packing Group                | II                                    |
| 14.5 Environment hazards          | See section 12.                       |
| 14.6 Special precautions for user | No special precautions required.      |
| 14.7 Transport in bulk            | Not transported in bulk.              |



## Section 15. Regulatory Information

### 15.1 Safety, health and environment regulations specific for substance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Flammable liquid, category 2; Aspiration hazard, category 1; Hazard to aquatic environment, category 1

Signal word Danger

Hazard Pictograms



Hazard Statements H225, H304, H410  
Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects.

Precautionary Statements P233, P280, P261, P301+P310, P331  
Keep container tightly closed. Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

Supplemental Hazard Information (EU) EUH066  
Repeated exposure may cause skin dryness or cracking.

### 15.2 Chemical safety assessment

Assessment not required.

## Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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