

## 1: Identification of substance / mixture

### 1. Product Identifier

Substance

Product Name **Ultra Clean Solution**  
Product Code 80-2117-75  
CAS Number 111-77-3  
Other Names 2-(2-Methoxyethoxy)ethanol  
IUPAC  
MFCD Number  
EC/EINECS 203-906-6  
REACH Number

### 2. Relevant identified uses of the substance or mixture and uses advised against

Research and Development

### 3. Details of the supplier of the safety data sheet

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### 4. Emergency telephone number

+44 (0)1223 427890 -

## 2. Hazards Identification

### 1. Classification of the substance or mixture

H361 Repr. 2 R62, R63

No Resource File

### 2. Label elements

Signal Word **Warning**



### Hazard Statements

H361 Suspected of damaging fertility or the unborn child ..

### Precautionary Phrases

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P281 Use personal protective equipment as required.  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P405 Store locked up.  
P501 Dispose of contents/container to a suitable container for hazardous waste

### 3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

## 3. Composition / Information on Ingredients

### 1. Substances

Ultra Clean Solution

Assay:100% CAS Number :111-77-3

### 2. Mixtures

Not Relevant

## 4. First Aid Measures

## 1. Description of first aid measures

<i>Skin Contact</i>	Wash immediately with plenty of soap and water. Consult a doctor.
<i>Eye Contact</i>	Bathe the eye with running water for 15 minutes. Consult a doctor.
<i>Ingestion</i>	Never give anything by mouth to an unconscious person. Wash out mouth with water. Consult a doctor.
<i>Inhalation</i>	Supply fresh air; consult a doctor in case of complaints.

## 2. Most important symptoms and effects

P308 + P313: IF exposed or concerned: Get medical advice/attention.

## 3. Indication of any immediate medical attention

Obtain medical attention in the event of any acute or delayed symptoms

## 5. Firefighting measures

### 1. Extinguishing Media

*Suitable* Water spray.  
Carbon dioxide.  
Alcohol resistant foam.  
Dry chemical powder.

*Unsuitable* N/A

### 2. Special Hazards arising from the substance or mixture

N/A

### 3. Advice for Fire Fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. Accidental Release Measures

### 1. Personal Precautions

Mark out the contaminated area with signs and prevent access to unauthorised personnel.  
Do not attempt to take action without suitable protective clothing – see section 8 of SDS.  
Avoid breathing vapours.

### 2. Environmental Precautions

Do not allow to enter sewers / surface or ground water.

### 3. Methods & Materials

Absorb into dry earth or sand.  
Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 4. Preventing the occurrence of secondary hazards.

None

## 7. Handling and Storage

### 1. Personal Precautions

*Safe Handling* Ensure there is sufficient ventilation of the area.  
Avoid the formation or spread of mists in the air.P201: Obtain special instructions before use.

*Protection against explosions and fires* P202: Do not handle until all safety precautions have been read and understood.  
Keep ignition sources away- do not smoke

## 2. Conditions for safe storage, including any incompatibilities

*Managing Storage Risks* Store in cool, well ventilated area.  
Keep away from sources of ignition.  
Keep container tightly closed.  
Moisture sensitive.

*Storage Controls* No special requirements

*Maintaining Integrity* No special requirements

*Other advice* P405: Store locked up.

## 3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

## 8. Exposure Controls/Personal Protection

### 1. Control Parameters

No Data Available

### 2. Exposure Controls

*General protective and hygiene measures* P281: Use personal protective equipment as required.  
Avoid contact with skin and eyes  
Wash hands during breaks and at the end of handling the material

*Engineering measures* Ensure there is sufficient ventilation of the area.

*Eye / Face Protection* Safety Glasses with side-shields.

*Hand protection* Nitrile gloves.

*Respiratory protection* Respiratory protection not required.

*Skin protection* Protective clothing.

*Other personal protection advice* No data.

## 9. Physical and Chemical Properties

### 1. Physical and Chemical Properties

Appearance	clear liquid
Odour	No Data Available
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	-70 °C - lit.
Initial boiling point and boiling range	194 °C - lit.
Flash point	87 °C - closed cup
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	0.3 hPa at 20 °C
Vapour density	4.15 - (Air = 1.0)
Relative density	1.023 g/cm <sup>3</sup> at 25 °C
Solubility(ies):	No Data Available
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	221°C
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

## 2. Other Information

No additional information available

## 10. Stability and Reactivity

### 1. Reactivity

No unusual reactivity

### 2. Stability

Stable under normal conditions.

### 3. Possibility of Hazardous Reactions

No hazardous reactions known.

### 4. Conditions to Avoid

No specific conditions to avoid.

### 5. Incompatible Materials

Strong oxidizing agents.

### 6. Hazardous Decomposition Products

In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

## 11. Toxicology information

### 1. Information

<i>Acute Toxicity</i>	Oral LD50 (rat) 7000mg/kg Dermal LD50 (rabbit) >20400mg/kg
<i>Skin corrosion/irritation</i>	May be harmful if absorbed through the skin. Causes skin irritation.
<i>Serious eye Damage/irritation</i>	Irritant effect.
<i>Respiratory or skin sensitisation</i>	No information available
<i>Germ Cell mutagenicity</i>	No information available
<i>Carcinogenicity</i>	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<i>Reproductive toxicity</i>	Possible risk of congenital malformation in the foetus. Suspected human reproductive toxicant Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.
<i>STOT-single exposure</i>	No information available
<i>STOT-repeated exposure</i>	No information available
<i>Aspiration hazard</i>	No information available

### 2. Additional

Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion - May be harmful if swallowed.

Skin - May be harmful if absorbed through skin. May cause irritation

## 12. Ecological Information

### 1. Toxicity

Toxicity to fish LC50 - *Lepomis macrochirus* - 7,500 mg/l - 96 h

### 2. Persistence and degradability

No information available

### 3. Bio-Accumulative Potential

No information available

### 4. Mobility and Soil

No information available

### 5. Results of PBT & vPvB assessment

No information available

### 6. Other adverse effects

No information available

## 13. Disposal Considerations

### 1. Waste Treatment Methods

*Disposal Operations*

*Disposal of Packaging* Disposal must be made according to official regulations.

## 14. Transport Information

### Air (ICAO)

1. **UN Number:**
2. **Shipping Name:** Non Hazardous
3. **Transport hazard class(es):** : Sub Class :
  
4. **Packing group:**
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

### Road (ADR)

1. **UN Number:**
2. **Shipping Name:** None Hazardous
3. **Transport hazard class(es):** : Sub Class :
  
4. **Packing group:**
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

### Sea (IMDG)

1. **UN Number:**
2. **Shipping Name:** Non Hazardous
3. **Transport hazard class(es):** : Sub Class :
  
4. **Packing group:**
5. **Environmental hazards:**
6. **Special Precautions for user:**

## 7. Transport in bulk:

### 15. Safety, health, environmental and national regulations

#### 1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

#### 2. Safety Assessment

No Chemical Safety Assessment

### 16. Other Information

#### 1. Other Information:

This safety data sheet complies to the requirements of Regulation (EC) No. 1907/2006

#### 2. Associated risk phrases according to european directive 67/548/EEC

R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.



#### 3. Disclaimer

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