

## MATERIAL SAFETY DATA SHEET According to EC Directive 91/155 EC Date: 01/08/10

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

#### 1.1 Product Details:

Trade Names: App Probe Low ROX Mix (2X)  
App Probe High ROX Mix (2X)  
App Probe No ROX Mix (2X)

Catalogue Numbers:

ARP302  
ARP303  
ARP305  
ARP402  
ARP403  
ARP405  
ARP502  
ARP503  
ARP505

Kit Components: App Probe Low ROX Mix (2X)  
App Probe High ROX Mix (2X)  
App Probe No ROX Mix (2X)





For the Life Scientist

New Lindon House  
Catesby Park  
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Birmingham  
B38 8SE  
Tel: 0121 458 7740  
Fax: 0121 458 5510  
Email: [sales@appletonwoods.co.uk](mailto:sales@appletonwoods.co.uk)

## 1.2 Company Details

Manufacturer/ Supplier:

Appleton Woods Ltd

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B38 8SE

United Kingdom

Telephone +44 (0) 121 458 7740

Email [info@appletonwoods.co.uk](mailto:info@appletonwoods.co.uk)

Further Information Obtainable from: Technical Services

Details as above

## 1.3 Emergency Details

In case of emergency:

Appleton Woods Ltd

Catesby Park

Kings Norton

Birmingham

B38 8SE

United Kingdom

Telephone +44 (0) 121 458 7740

## \* 2 Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulation.
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void
- Information concerning particular hazards for human and environment: The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- Classification system: The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.
- Label elements
- Labelling according to EU guidelines: Observe the general safety regulations when handling chemicals The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).
- Safety phrases: 35 This material and its container must be disposed of in a safe way.
- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

## \* 3 Composition/information on ingredients

- Chemical characterization: Mixtures

- Description: Mixture of the substances listed below with nonhazardous additions.
- Dangerous components:
  - CAS: 67-68-5
  - EINECS: 200-664-3
  - dimethyl sulfoxide 5-10%
  - CAS: 56-81-5
  - EINECS: 200-289-5
  - glycerol 1.0-2.5%
  - Eye Irrit. 2, H319
  - 1.0-2.5%
- Additional information For the wording of the listed risk phrases refer to section 16.

## 4 First aid measures

- Description of first aid measures
- General information No special measures required.
- After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact Generally the product does not irritate the skin.
- After eye contact Rinse opened eye for several minutes under running water.
- After swallowing Induce vomiting and call for medical help.
- Information for doctor
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents

- CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions:
- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Dispose contaminated material as waste according to item 13.
- Reference to other sections
- No dangerous substances are released.
- See Section 7 for information on safe handling
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### 7 Handling and storage

- Handling
- Precautions for safe handling No special measures required.
- Information about protection against explosions and fires: No special measures required.

- Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and receptacles: According to product specification
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

### \* 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
- Components with limit values that require monitoring at the workplace:
- Proprietary Reagent RF I
- WEL () Short-term value: 20 mg/m<sup>3</sup>
- Long-term value: 10 mg/m<sup>3</sup>
- 56-81-5 glycerol
- WEL () Long-term value: 10 mg/m<sup>3</sup>
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment
- General protective and hygienic measures
- The usual precautionary measures should be adhered to when handling chemicals.
- Breathing equipment: Not required.
- Protection of hands: Protective gloves.
- Material of gloves Synthetic gloves
- Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the

protective gloves and has to be observed.

- Eye protection: Safety glasses

## 9 Physical and chemical properties

- Information on basic physical and chemical properties
- General Information
- Appearance:
- Form: Fluid
- Colour: Colourless
- Odour: Odourless
- Odour threshold: Not determined.
- pH-value: Not determined.
- Change in condition
- Melting point/Melting range: undetermined
- Boiling point/Boiling range: 100°C
- Flash point: > 55°C
- Flammability (solid, gaseous) Not applicable.
- Ignition temperature: 270°C
- Decomposition temperature: Not determined.
- Self-igniting: Product is not self-igniting.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
- Lower: 1.8 Vol %
- Upper: 63.0 Vol %
- Vapour pressure at 20°C: 23 hPa
- Density: Not determined
- Relative density Not determined.
- Vapour density Not determined.
- Evaporation rate Not determined.
- Solubility in / Miscibility with
- Water: Fully miscible
- Segregation coefficient (n-octanol/water): Not determined.
- Viscosity:
- dynamic: Not determined.
- kinematic: Not determined.

- Solvent content:
- Organic solvents: 12.0 %
- Water: 71.3 %
- Solids content: 16.7 %
- Other information No further relevant information available.

## 10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known

## 11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- LD/LC50 values that are relevant for classification:
- 67-68-5 dimethyl sulfoxide
- Oral LD50 14500 mg/kg (rat)
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information: The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## 12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- General notes:
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

## 13 Disposal considerations

- Waste treatment methods
- Recommendation
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

- Recommended cleansing agent: Water, if necessary with cleansing agents.

## 14 Transport information

- Maritime transport IMDG:
- Marine pollutant: No
- Special precautions for user Not applicable.
- Transport/Additional information: Not dangerous according to the above specifications.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
- Technical instructions (air):
- Class Share in %
- NK 10-20
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Chemical safety assessment: A  
Chemical Safety Assessment has not been carried out.

## 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.