

# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation	<b>Prodel</b>
Use of the substance/preparation	Liquid Odour Counteractant for Healthcare
Version No.	00
Revision date	31-March-2010
CAS No.	Mixture
Supplier	Kingfisher Sales & Marketing
Address	Unit 17B, Millers Avenue, Brynmenyn Industrial Estate, Bridgene, CF32 9TD, United Kingdom
Contact person	Jon Dormer
Telephone	<b>+44 (0)845 0700 626</b>
Email address	sales@kingfishersales.com
Emergency telephone	<b>+44 (0)845 0700 626</b>

## 2. HAZARDS IDENTIFICATION

This preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification	Xi;R36
Physical hazards	Not classified as a physical hazard.
Health hazards	Irritating to eyes. Prolonged exposure may cause chronic effects.
Environmental hazards	Not classified as an environmental hazard.
Specific hazards	Irritating to eyes. May cause mild central nervous system effects. Defats the skin. The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals.
Main symptoms	Sensitisation. Symptoms include itching, burning, redness, and tearing of eyes.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	Classification	CAS-No.	%	EC-No. / REACH Registration No.	Notes
2-Propanol	F;R11, Xi;R36, R67	67-63-0	5-10	200-661-7	#
Poly(oxy-1,2-ethanediyl), A-(2-propylheptyl)-w-hydroxy-Xn;R22, Xi;R41, R66, R52		160875-66-1	5-10	-	
Ethanol	F;R11	64-17-5	1-5	200-578-6	#
Citral	Xi;R38, R43	5392-40-5	0.1- <1	226-394-6	

**Composition comments** The full text for all R-phrases is displayed in Section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. FIRST-AID MEASURES

Inhalation	Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort continues.
Skin contact	Rinse area with plenty of water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention promptly if symptoms persist or occur after washing.
Ingestion	Rinse mouth thoroughly. Drink plenty of water. Get medical attention if irritation develops & persists.

**Most important symptoms and effects** Sensitisation. Symptoms include itching, burning, redness, and tearing of eyes.

**Notes to physician** Treat symptomatically. Symptoms may be delayed.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media** Extinguish with foam, carbon dioxide, dry powder or water fog.

**Extinguishing media which must not be used for safety reasons** None known.

### **Specific methods**

Use standard fire fighting procedures and consider the hazards of other involved materials.

Containers close to fire should be removed or cooled with water.

### **Specific hazards**

During fire, gases hazardous to health may be formed.

### **Hazardous combustion products**

Carbon oxides.

### **Fire fighting equipment/instructions**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** Avoid inhalation of vapours. Avoid contact with eyes and prolonged skin contact. Wear suitable protective clothing. See Section 8 for personal protective equipment.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

**Containment procedures** Collect spillage.

**Methods for cleaning up** Absorb spillage with suitable absorbent material. For waste disposal, see Section 13.

## 7. HANDLING AND STORAGE

**Handling** Local exhaust is recommended. Avoid inhalation of vapours and spray mist and contact with skin and eyes. Wash hands after contact. Observe good industrial hygiene practices.

**Storage** Keep container tightly closed and in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Exposure limit values**

**United Kingdom  
Components**

	<b>Type</b>	<b>Value</b>
2-Propanol (67-63-0)	STEL	500 ppm 1250 mg/m <sup>3</sup>
	TWA	999 mg/m <sup>3</sup> 400 ppm
	TWA	1000 ppm 1920 mg/m <sup>3</sup>
Ethanol (64-17-5)	TWA	1000 ppm 1920 mg/m <sup>3</sup>

**Exposure controls** Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours. Provide easy access to water supply and eye wash facilities.

### **Occupational exposure controls**

**Respiratory protection** In case of inadequate ventilation: Use respiratory equipment with gas filter, type A2.

**Hand protection** Wear protective gloves. Butyl rubber gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

**Eye protection** Wear approved safety glasses or goggles.

**Skin and body protection** Wear appropriate clothing to prevent repeated or prolonged skin contact.

**General** Use personal protective equipment as required. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Hygiene measures** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear bright liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Clear, water white
Odour	Characteristic.
Odour threshold	Not available.
pH	7 - 8
Boiling point	> 87.8 °C (> 190 °F)
Flash point	> 100 °C (> 212 °F) Closed cup
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available.
Vapour pressure	No data available.
Relative density	1.01
Solubility (water)	Completely soluble.
Partition coefficient (n-octanol/water)	Not available
Viscosity	No data available.
Vapour density	> 1 ( Air=1)
Evaporation rate	Not available.
Melting point	No data available.
Freezing point	Not available.
Auto-ignition temperature	Not available.
VOC	No data available.

## 10. STABILITY AND REACTIVITY

Stability	Material is stable under normal conditions.
Conditions to avoid	Heat, sparks, flames, elevated temperatures.
Materials to avoid	Strong oxidising agents.
Hazardous decomposition products	Carbon oxides.
Hazardous polymerisation	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Toxicological data

#### Components

#### Test results

2-Propanol (67-63-0)

Acute Dermal LD50 Rabbit: 4059 mg/kg  
Acute Inhalation LC50 Rat: 72600 mg/m<sup>3</sup>  
Acute Oral LD50 Rat: 3437 mg/kg

#### Acute toxicity

Irritation of eyes. May cause central nervous system effects. Defats the skin.

#### Routes of exposure

Eye contact. Ingestion. Inhalation. Skin contact.

#### Chronic toxicity

Defats the skin.

#### Sensitisation

The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals.

#### Carcinogenicity

No data available

#### IARC Monographs. Overall Evaluation of Carcinogenicity

2-Propanol (CAS 67-63-0)

3 Not classifiable as to carcinogenicity to humans.

#### Mutagenicity

No data available

#### Reproductivity

No data available

#### Epidemiology

No data available.

#### Local effects

Irritating to eyes. May cause redness and pain.

#### Further information

No other specific acute or chronic health impact noted.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicological data

#### Components

#### Test results

Ethanol (64-17-5)

EC50 Water flea (Daphnia magna): 7.7 - 11.2 mg/l 48 hours  
LC50 Fathead minnow (Pimephales promelas): > 100 mg/l 96 hours

**Components****Test results**

2-Propanol (67-63-0)	LC50 Bluegill ( <i>Lepomis macrochirus</i> ): > 1400 mg/l 96 hours
<b>Ecotoxicity</b>	There are no data on the ecotoxicity of this product.
<b>Mobility</b>	The product is water soluble and may spread in water systems.
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Environmental effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
<b>Other adverse effects</b>	None known.

**13. DISPOSAL CONSIDERATIONS**

<b>Waste from residues / unused products</b>	Dispose of waste and residues in accordance with local authority requirements.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>EU wastecodes</b>	16 03 05*

**14. TRANSPORT INFORMATION**

<b>ADR</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.

**15. REGULATORY INFORMATION****Labelling****Symbol(s)**

Irritant

**R-phrases(s)  
S-phrases(s)**

R36 Irritating to eyes.  
 S23 Do not breathe fumes, vapour.  
 S24 Avoid contact with skin.  
 S25 Avoid contact with eyes.  
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S60 This material and its container must be disposed of as hazardous waste.

**Other regulations**

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

**16. OTHER INFORMATION****Wording of the R-phrases in sections 2 and 3**

R11 Highly flammable.  
 R22 Harmful if swallowed.  
 R36 Irritating to eyes.  
 R41 Risk of serious damage to eyes.  
 R43 May cause sensitisation by skin contact.  
 R52 Harmful to aquatic organisms.  
 R66 Repeated exposure may cause skin dryness or cracking.  
 R67 Vapours may cause drowsiness and dizziness.

**Inventory status****Country(s) or region****Inventory name****On inventory (yes/no)\***

Europe

European Inventory of Existing Commercial Chemical Substances (EINECS)

Yes

Europe

European List of Notified Chemical Substances (ELINCS)

No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**Disclaimer**

To the best of our knowledge, the information contained herein is accurate. However no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability to assure proper use, disposal, and safety of these materials.

**Issue date**

31-March-2010