



ODEL® Concentrated Liquid Odour Eliminator Application

ODEL® concentrate can be used in the following applications in its concentrated or diluted form and is generally used in areas where you have easy access to cleaning.

Carpet Care

Add 60ml of ODEL® to 4 litres of carpet shampoo solution to your carpet cleaning machine to eliminate the smell of human or animal urine, faeces, vomit, mildew, smoke and many other odours. It will not leave a residue and due to its formula containing a natural odour counteractant manufactured from raw essential oils, will leave behind a fresh floral fragrant aroma with no muskiness.

For strong and recurring odours (e.g. musty odours from water damage) ODEL® may be sprayed on in its concentrated form. After the carpet has been cleaned it is most important to rinse with a warm water solution and ODEL®, as this removes excess soap residue from your carpet shampoo solution that attracts dirt in heavy traffic areas. ODEL® may also be added (full strength) to the extractor's recovery tank (when empty) to stop exhausting soiled carpet odours into the surrounding atmosphere.

Floor (mopping) Treatment

Add 60ml of ODEL® to 4 litres of mopping solution. When using with a disinfectant solution an odourless type is recommended. A quick, damp mopping with ODEL® and plain warm water will improve the overall environment. Deodorize as you mop! ODEL® counteracts hidden malodour sources in the smallest of crevices on contact. As ODEL® evaporates into the air it then counteracts airborne malodours. ODEL® also banishes musty wet mop and bucket odours. **NB: As always when mopping floors, set up your 'Caution' and 'Wet Floor' signs until dry.**

Laundry

To eliminate offensive human odour add 60ml of ODEL® to the rinse cycle to each 5 Kg of laundry. In extreme cases of soiling add 60ml of ODEL® to the main wash cycle also. In washing machines where ODEL® cannot be added to the rinse cycle it should be added to the wash (85ml per 5 Kg of laundry) as the clothes are being put in the machine. Your laundry will be left with a fresh, faint clothesline scent. ODEL® is a non-allergenic product and will not stain even when applied directly onto soiled laundry. ODEL® may be misted (diluted or undiluted) onto waiting soiled linen bins. ODEL® may be put into the fabric softener dispenser, which allows it to be released during the final rinse cycle. You will notice the improved results in bed linen, lingerie, towels etc.

Instant Spray Mist

ODEL® can be used as an economical spray in neat form or mixed up to 50% with water. ODEL® counteracts odours when misted on 'in transit' laundry bins, beds, sheets, walls, hallway linen baskets, waste receptacles and liners, curtains, air conditioner filters, in and around urinals and toilets. Use in vehicles, boats, pet bedding and litter boxes etc.

ODEL® can be used anywhere that bad odours are found. **Avoid spraying mist into the air where it may settle onto a hard floor surface, as this may cause a slip hazard until it dries.** You do not have to worry about discolouring fabric and can experience the perception and longevity of this most wonderful, working product. We would suggest you use it in any area that needs a special calming and clean ambience!

Spray and Wipe

For this purpose ODEL® can again be used neat or diluted up to 50% water. Use around patient's rooms, on mattresses before remaking beds, on all hard surfaces, tables, chairs, counter tops, bed frames, sinks, mobility equipment, soiled linen rooms, bio-hazard rooms etc. ODEL® is not a disinfectant, although it has excellent cleaning properties.

Do not allow over-spray to settle on floor in traffic areas as this may cause the floor to be temporarily slippery. **Odel** can be used in and around patient rooms to cope with a number of the strongest body odours.

Bedpans, Sinks, Portable Toilets

ODEL® can be used as a deodorizer. Put 60ml undiluted in clean toilets and 30 to 60ml undiluted in bedpans before each use. It can also be used to deodorize sink and bath drain holes and overflows, pour in 30ml of undiluted ODEL® to stop odours from building up.

Suction Recovery Tanks

Put 10ml ODEL® to each 1 litre of recovery jar or tank capacity.

Useful Tips

- Always add **ODEL®** last to any solution and stir gently to reduce foaming.
- The usage and dilution ratios may vary according to the intensity of need. You may need to adjust the suggestions given here.
- We have found that once in the hands of a skilled supervisor the uses for **ODEL®** multiply very quickly!

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

Identification of the substance/preparation	Odel
Use of the substance/preparation	Liquid Odour Counteractant for Healthcare
Version No.	00
Revision date	31.12.18
CAS No.	Mixture
Supplier	Kingfisher Sales & Marketing LLP
Address	Unit 17B Millers Avenue, Brynmenyn Industrial Estate, Bridgend, CF32 9TD, United Kingdom
Telephone	+44 (0)845 0700 626
Email address	sales@kingfishersales.com

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	#
Ethylan 1008	Xn;R22, Xi;R41, R66, R52	160875-66-1	5-10	-	
Ethanol	F;R11	64-17-5	1-5	200-578-6	#
Hydroxycitronellal	Xi;R36, R43	107-75-5	0.1-<1	203-518-7	

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	<u>Rinse mouth thoroughly. Drink plenty of water. Get medical attention if irritation develops & persists.</u>
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 firefighting 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

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

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.
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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.
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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 ³ 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
2-Propanol (67-63-0)	LC50 Bluegill (Lepomis macrochirus): > 1400 mg/l 96 hours
Ecotoxicity	There are no data on the ecotoxicity of this product.
Mobility	The product is water soluble and may spread in water systems.
Persistence and degradability	No data available
Bioaccumulation	No data available
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Other adverse effects	None known.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. REGULATORY INFORMATION



Hazard Statement
H320 - Causes eye irritation
H335 - May cause respiration irritation

Precautionary Statements Prevention

P261 – Avoid breathing mist/spray

P261 – Wash face, hands and any exposed skin thoroughly after handling.

P271 – Use only in a well-ventilated area.

Response

P304 + P340 – IF INHALED: Remove to fresh air and keep at rest a position comfortable for breathing.

P305 +P351 =P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P337 _P313 – If eye irritation persists: Get medical advice/attention.

Storage

P403 +P313 – Store in a well-ventilated place, keep container tightly closed.

P405 – Store locked up.

Disposal

P501 – Dspose of contents/container to an approved landfill.

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

20.11.17



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Other products in the ODEL range:



ODELZYME® Concentrated Liquid Enzyme & Deodorant Application

ODELZYME® is a synergized blend of selective bacillus organisms combined with a compatible odour counteractant to eliminate offensive odours at the source. These enzymes are capable of accelerated degradation of organic compounds such as grease, fats, proteins, starch, sugars and cellulose. **ODELZYME®** simply reduces organic odours to water and carbon dioxide, making it the obvious choice for odours from human wastes, refuse, rotting foods and decaying matter. **ODELZYME®** is generally used in 'hard to get at' areas where you don't have easy access to cleaning.

ODELZYME® contains three selected adaptive strains and seven sub-strains of bacillus bacteria. The bacteria count in the ready-to-use product is 100 billion per 3.8 litres! The product contains enzymes and bacteria. The enzymes help cut the organic matter into smaller, more digestible particles that are eaten by the bacteria. The bacteria we use are non-pathogenic and non-toxic which means they are safe and harmless to everything but organic odours.



PRODEL® Professional Odour Eliminator for Extreme Odours

PRODEL® is a concentrated liquid odour eliminator that instantly removes odours caused by decaying organic matter, necrotic tissue, burns and wounds, leaving behind a fresh floral aroma.

For use on washable surfaces such as bedding, carpets, upholstery, floors, walls, ceilings, fixtures and fittings. Can be used as a space spray and in cold foggers.