



B117 LEMON REFRESH

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: LEMON REFRESH **Product Code:** B117

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Chemical Product Manager E, H & S

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Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department, who may seek advice from the **UK National Poisons Information Service**, where our full product details are held.

Product Description & Directions For Use:

A concentrated deodoriser and air conditioner containing a unique blend of high quality lemon fragrances and other odour neutralising ingredients. Lemon Refresh can be added to carpet and fabric extraction and shampoo cleaning solutions, hard surface cleaning solutions or it can be diluted with water and used to freshen any wet cleanable surface.

Cleaning solution additive: Add 5 to 10 ml. of B117 Lemon Refresh per litre of "ready-to-use" cleaning solution.

General use: Dilute 10ml. of B117 Lemon Refresh per litre of water (1 to 100) and apply by sprayer. Blot or wipe treated surface with towel if required.

Always pretest surface to be cleaned with diluted solutions before proceeding.

SECTION 2: HAZARDS IDENTIFICATION

Classification: Irritating to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Eye Contact: Contact with concentrate may cause moderate eye irritation.

Skin Contact: Prolonged or repeated contact with concentrate may cause mild irritation and possible dermatitis.

Inhalation: None expected in normal use dilutions. Breathing spray mist may cause irritation of the nose and throat. Excessive inhalation of concentrate may cause drowsiness and dizziness.

Ingestion: Ingestion of concentrate may produce nausea and possible systemic effects from propan-2-ol.

Environment: Raw materials are biodegradable. See Ecological Information for further details.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE	RISK (See Section 16)	EINECS NO.	CAS NO.	% W/W (EC RANGE)
Propan-2-ol	F R11 Xi R36 R67	200-661-7	67-63-0	5 to 15%
C9-11 Alcohol ethoxylate with 9MEO	Xn R22 Xi R41	None	None	5 to 15%
Perfume (IFRA certified)	Xn R65 Xi R38 R43 N R51/53	None	None	Less than 5%
Perfume (IFRA certified)	F R10 Xn R65 Xi R38 R43 N R51/53	None	None	Less than 1%
Limonene	R10 Xi R38 R43 N R50/53	601-029-00-7	5989-27-5	Less than 1%
Turpentine oil rectified	R10 Xn R65 R20/21/22 Xi R36/38 R43 N R51/53	232-350-7	8006-64-2	Less than 0.1%
Diphenyl oxide (phenyl ether)	N R51/53	202-981-2	101-84-8	Less than 0.01%

SECTION 4: FIRST AID MEASURES

Eye Contact: Flush immediately with water for 15 minutes, then seek medical attention if irritation persists.

Skin Contact: Flush skin with plenty of water. Seek medical attention if any skin irritation persists.

Inhalation: Get fresh air and seek medical assistance if breathing is difficult.

Ingestion: If small amounts are ingested, drink water and seek immediate medical attention. Do not give anything by mouth if patient is unconscious. DO NOT INDUCE VOMITING.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media: Product is not flammable. Use water, carbon dioxide, dry powder extinguisher, or other media appropriate for materials actually involved in fire.

Fire/Explosion Hazards: No explosion hazard.

Decomposition Products: Exposure to fire may liberate carbon dioxide, carbon monoxide, water and other unidentified thermal decomposition products from this product or its packaging.

Special Protective Equipment: Self contained breathing apparatus and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: Protective clothing, nitrile butyl rubber gloves, chemical splash goggles.

Containment and Disposal: Large spills should be treated with dry absorbent and disposed at legal waste disposal site. Small spills can be flushed with water to sewage drain linked to waste treatment facility.

SECTION 7: HANDLING AND STORAGE

Handling Precautions: Wear nitrile butyl rubber gloves and safety glasses when handling concentrate.

Storage Precautions: Avoid extremes of temperature. Keep out of reach of children. Keep in original container.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: Propan-2-ol WEL-LTEL 400ppm WEL-STEL 500ppm.

Turpentine oil rectified WEL-LTEL 100ppm WEL-STEL 150ppm.
Diphenyl oxide WEL-LTEL 1ppm

Environmental Controls: For additional guidance, contact ENVIROWISE at www.envirowise.gov.uk or telephone 0800 585794

Eye Protection: Side shield safety glasses are recommended when handling concentrate.

Protective Clothing: Standard work clothing and nitrile butyl rubber gloves. Protective gloves should be inspected for wear before use and replaced regularly in accordance with the manufacturers specifications.

Respiratory Protection: For situations where recommended exposure limits may be exceeded or where there is a risk of inhalation of fine spray mists, a suitable respirator is recommended.

Ventilation: Normal air circulation.

Hygiene: Wash hands and clothing after use or spill. Do not eat or drink when handling chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Colour/State: Moderate foam clear yellow liquid

Odour: Lemon floral

pH Concentrate: 8 pH Diluted: 8

Boiling Point / Range °C: 100

Flash Point °C: None **Method:** Not applicable

Flammability Limit %: Not applicable

Explosive Properties: Not applicable

Oxidising Properties: Not applicable

Vapour Pressure: Not determined

Relative Density (Water = 1): 1 Solubility: 100%

Partition Coefficient (N-octanol / Water): Not determined

Viscosity: Not determined

Vapour Density: Not determined

Evaporation Rate: Not determined

% Active: 19

% Solids: 14

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Extremes of temperature.

Incompatibility (Materials to Avoid): Strong oxidising agents and strong acids.

Hazardous Decomposition Products: Exposure to fire may liberate carbon dioxide, carbon monoxide, water and other unidentified thermal decomposition products from this product or its packaging.

SECTION 11: TOXICOLOGICAL INFORMATION

Eye Contact: Contact with concentrate may produce moderate transient irritation if not promptly rinsed.

Skin Contact: Possible dermatitis from prolonged or repeated contact with concentrate or working solution.

Inhalation: No health effects expected. Deliberate or excessive exposure may produce CNS effects from propan-2-ol.

Ingestion: Nausea, gastric irritation, possible systemic effects from propan-2-ol if large enough dose.

Acute and Chronic Effects:

Acute Toxicity: LD50 200-2000mg/kg (oral-rat) (C9-11 alcohol ethoxylate with 9MEO)

LD50 >2000mg/kg (dermal-rat) C9-11 alcohol ethoxylate with 9MEO)

LD50 4700-5500 mg/kg (oral-rat) (propan-2-ol)

LD50 12800 mg/kg (dermal-rabbit) (propan-2-ol)

Corrosivity / Irritation: Skin, eye and respiratory

Sensitisation: Contains limonene, citral, linalool, geraniol, citronellol and cinnamal.

Repeated Dose Toxicity: Not established

Mutagenicity: None

Carcinogenicity: None

Teratogenicity: None

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: LC50 96h 9600mg/l (fathead minnow) (propan-2-ol)

EC50 48h 4600mg/l (daphnia) (propan-2-ol)

LC50 10-100mg/l (fish) (C9-11 alcohol ethoxylate with 9MEO)

LC50 1-10mg/l (daphnia) (C9-11 alcohol ethoxylate with 9 MEO)

LC50 10-100mg/l (algae) (C9-11 alcohol ethoxylate with 9MEO)

Mobility: Soluble in water

Persistence and Degradability: The raw material ingredients in this product are biodegradable within the scope of current EC legislation. The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in

Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

The major packaging materials of polyethylene and fibreboard are recyclable.

Bioaccumulative Potential: None known

Other Effects: None known or no relevant data available for substances in this preparation.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste cleaning effluent should be disposed of in accordance with regional and national requirements.

Empty containers should be rinsed with water then crushed and disposed of at legal waste disposal site.

Contact local Environment Agency office for waste holder requirements.

SECTION 14: TRANSPORT INFORMATION

UN No: None

Classification: Not classified as hazardous for transport

Proper Shipping Name: None

Packing Group: None

Road (ADR): None

Sea (IMDG): None

Air (ICAO / IATA): None

Rail (RID): None

SECTION 15: REGULATORY INFORMATION

Classification: Xi IRRITANT

Risk Phrases

R36 Irritating to eyes.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S2 Keep out of the reach of children.

S23 Do not breathe spray.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 Wear suitable gloves.

S51 Use only in well ventilated areas.

The information given has been compiled with reference to the **CHEMICALS (HAZARD INFORMATION AND PACKAGING FOR SUPPLY) REGULATIONS (CHIP 3) 2002** (as amended), the **REGISTRATION, EVALUATION, AUTHORISATION AND RESTRICTION OF CHEMICALS (REACH) REGULATIONS** (as amended), the **CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS (COSHH) 2002** (as amended) **REGULATION (EC) NO. 648/2004 ON DETERGENTS** (as amended) and the **MANAGEMENT OF HEALTH AND SAFETY AT WORK REGULATIONS 1999** (as amended). This safety data sheet does not constitute the users own assessment of workplace risk as required by other health and safety regulations.

SECTION 16: OTHER INFORMATION

Risk Phrases: R10 Flammable. R11 Highly flammable. R20

Harmful by inhalation. R21 Harmful in contact with skin. R22

Harmful if swallowed. R36 Irritating to eyes. R38 Irritating to

skin. R41 Risk of serious damage to eyes. R43 May cause

sensitisation by skin contact. R50 Very toxic to aquatic

organisms. R51 Toxic to aquatic organisms. R53 May cause

long-term adverse effects in the aquatic environment. R65

Harmful: may cause lung damage if swallowed. R67 Vapours

may cause drowsiness and dizziness.

For additional information on safety, training and use of this product, contact the supplier. This product is intended for professional use only.

The information given is intended to be of assistance to users but is without guarantee. Variations can occur in application and users are advised to conduct their own tests. Suggestions for use neither give nor imply any guarantee as to the intended use.

Revisions: Replaces SDS B117 Issue / Revision Date 01/11/06 Revised Sections: 1, 2, 3, 8, 9, 10, 11, 12, 15, 16.