

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product name : **QUADRASAN 300 – CITRUS TINGLE**
Application : Toilet Cleaner. Professional use.

Supplier : Vectair Systems Ltd
Address : Bilton Road, Kingsland Business Park, Basingstoke, Hampshire RG24 8LJ
Telephone : +44-1256-319500
Fax : +44-1256-319510
Email : info@vectair.co.uk



EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:
Vectair Systems Limited : +44-1256-319500

1.2 Trading Name **Quadrasan 300 Sanitizer – Citrus Tingle (FQ-300-01)**

2. HAZARD INFORMATION

Classification: Flammable and irritant
Human health hazards: Irritating to eyes.
Physical/chemical hazards: Flammable
Environmental hazards: Not classified as dangerous on basis of existing EC-Directives.
See also section 12.
Other information: Keep out of reach of children

3. COMPOSITION / INFORMATION ON CONSTITUENTS

Information on hazardous substances:

EC Name	Concentration (w/w) (%)	CAS-number	EC-number	Symbols	R-phrases
Ethanol	5-10	64-17-5	200-578-6	F	11
Propan-2-ol	5-10	67-63-0	200-661-7	F	11-36-67
Alcohols C12-14, ethoxylated (3EO)	5-10	9002-92-0	221-280-2	Xi, N	38-41-50
Benzenemethanaminium, N-dodecyl-N,N-dimethyl- chloride					
Miristalkoniumchloride	<1	139-08-2	205-352-0	C, N	21/22-34-50
P-Mentha-1,4(8)-diene	<1	586-62-9	209-578-0	Xn, N	10-51/53-65

Reference is made to chapter 16 for full text of each relevant R phrase. Occupational exposure limit(s), if relevant, are listed in section 8.

Ingredient declaration according to Directive 89/542/EEC

Contains:	Concentration (w/w) (%)
Nonionic surfactants	5-15
Cationic surfactants	<5
EDTA	<5

INFORMATION FOR MEDICAL PERSONNEL

Formula Code: **0530946**

Date: **3rd February 2005**

Chemical Name	CAS-No	INCI-Name	% (w/w)
Water	7732-18-5	AQUA	>=10%
Ethanol	64-17-5	ALCOHOL	>=10%
2-(2-(2-Dodecyloxy)ethoxy)ethoxy)ethanol	3055-94-5	LAURETH-3	1 – 10%
Propan-2-ol	67-63-0	ISOPROPANOL	1 – 10%
Parfum			
Benzododecinium chloride	139-07-01	LAURALKONIUM CHLORIDE	1 – 10%

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Water	7732-18-5	AQUA	1 – 10%
p-Menth-1-en-8-ol	98-55-5	ALPHA-TERPINEOL	0,1 – 1%
p-Mentha-1,4(8)-diene	586-62-9	TERPINOLENE	0,1 – 1%
Disodium dihydrogen ethvlenediaminetetraacetate	139-33-3	DISODIUM EDTA	0,1 – 1%
Decanal	112-31-2	DECANAL	0,1 – 1%
Miristalkonium chloride	139-08-2	MYRISTALKONIUM CHLORIDE	0,1 – 1%
(+)-Beta-Citronellol	106-22-9	CITRONELLOL	<0,1%
Geraniol	106-24-1	GERANIOL	<0,1%
Nonanal	124-19-6	NONANAL	<0,1%
Octanal	124-13-0	OCTANAL	<0,1%
Citral	5392-40-5	CITRAL	<0,1%

4. FIRST AID MEASURES

Effects and symptoms

Inhalation	:	May cause headache, dizziness and a feeling of sickness.
Skin Contact	:	May cause dry skin.
Eye Contact	:	Irritant. May cause redness and pain.
Ingestion	:	May cause a feeling of sickness, vomiting and diarrhoea.

First aid measures

Inhalation	:	Move victim into fresh air. Seek medical advice if victim feels unwell.
Skin Contact	:	Immediately take off contaminated clothing. Wash off skin with plenty of water before product dries up. Consult a Doctor if irritation persists.
Eye Contact	:	Wash out with (lukewarm) water for at least 15 minutes. Remove contact lenses. Consult a Doctor.
Ingestion	:	Do not induce vomiting. Rinse the mouth, drink 1 glass of water at most. Give condensed milk or a knob of butter. Consult a Doctor.

5. FIRE FIGHTING METHODS

Extinguishing media

Suitable:	CO ₂ , foam, water fog or dry chemical
Not suitable:	Water jet
Special exposure hazards:	None known
Hazardous thermal (de)composition products:	Carbon monoxide may be evolved if incomplete combustion occurs.
Special protective equipment for fire-fighters:	Use adequate respiratory equipment in case of insufficient ventilation.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Keep away from sources of ignition. See also section 8.
Environmental precautions:	Avoid release of product into sewers and surface water.
Methods for cleaning up:	Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an authorised waste collection point. Wash away remainder with plenty of water.

7. HANDLING & STORAGE

Handling:	Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Keep away from sources of ignition and direct sunlight. No smoking. Avoid contact with eyes and skin.
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Storage: Keep frost-free, in a cool, dry and well-ventilated place (<35°C) separated from oxidizing substances. Protect from sunlight.
Recommended packaging: Keep only in the original container.
Use: Use only as directed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.
Hygienic measures: Do not eat, drink or smoke during use.
Occupational exposure limits: Occupational exposure limits have not been established for this product.

Information on MAC TWA-8 hour (mg/m ² /m ³):	UK			EC
Chemical name:				
Ethanol	1920			...
Propan-2-ol	980			...

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

Body protection: Use of specific protective industrial clothing is not required under normal conditions of use. See also under additional information.
Respiratory: Take care of sufficient ventilation. Wear a gas filter type A (brown), class 1 or higher on e.g. a facemask in accordance with EN 140, in case of large scale exposure.
Hand protection: Under normal conditions of use specific gloves are not required. See also under additional information.
Eye protection: Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact.

Additional information

Protective clothing: In case of large scale exposure wear nitril protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345.
Safety gloves: In case of large scale exposure wear nitril gloves. Indication of permeation breakthrough time: 4 hours (ethanol), non permeable (propan-2-ol), not known (benzenemethanaminium, N-dodecyl-N,N-dimethyl-, chloride)

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance: Liquid
Colour: Yellowish
Odour: Perfumed
PH: 4.0
Solubility in water: Soluble
Solubility in fat: Not known
Partition coefficient (n-octanol/water): Not applicable
Boiling point/boiling range: ± 78°C
Flash point: ± 28 °C (PMcc)
Auto ignition temperature: Not applicable
Melting point / melting range: <0 °C
Explosive properties: Not known
Oxidizing properties: Not applicable
Decomposition temperature: Not applicable
Viscosity (40 °C): Not known

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Vapour pressure (20 °C): Not known
Relative density (20 °C): ± 1.0 kg/l
Evaporation rate: Not known (n-butyl acetate = 1)

10. STABILITY & REACTIVITY

Stability: Stable under normal conditions
Conditions to avoid: See section 7
Materials to avoid: Keep away from oxidizing substances
Hazardous decomposition products: Not known

11. TOXICOLOGICAL INFORMATION

No toxicological research has been carried out on this product.

Inhalation: Irritation of respiratory airways possible when vapour concentrations exceed threshold limits.
Skin Contact: Slight irritation possible. Prolonged contact may dry out and degrease the skin.
Eye Contact: Irritating to eyes
Ingestion: Ingestion may cause vomiting, nausea and diarrhoea

Information concerning: Chemical Name	Acute toxicity LD ₅₀ oral (mg/kg)	Acute toxicity LC ₅₀ inh. (mg/m ³)	Primary skin irritation	Sensitisation
Propan-2-ol	>2000	>5000	Irritant	Not Sensitising
Alcohols C12-14, ethoxylated (3 EO)	>2000		Irritant	Not Sensitising
Benzenemethanaminium, N-dodecyl-, N, N-dimethyl-, chloride	>200		Strong irritant	Not Sensitising

12. ECOLOGICAL INFORMATION

No ecotoxicological research has been carried out on this product.

Ecotoxicity: No ecotoxicological information available
Mobility: Spilled product can penetrate into the ground and get into the ground water and surface water.
Persistence – degradability: Data on the biodegradation of this product are not available
Bio accumulative potential: No specific information known

13. DISPOSAL CONSIDERATIONS

Product residues: Dispose empty pack with regular household waste. Treat product residues and non-empty pack as chemical waste. Dispose waste to an official chemical waste depot.
Comment: Attention is drawn to the possible existence of mandatory and regulatory communal, national or local requirements governing disposal of waste.

14. TRANSPORT INFORMATION

UN Number: UN 1987
Transport Name: ALCOHOLS, N.O.S.

Land (road / railway)
ADR/RID class: 3
Classification Code: F1

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Packaging group: III



Sea
IMDG class: 3
Packaging group: III
EmS: 3-06
Marine pollutant: No

Air
IATA class: 3

15. REGULATORY INFORMATION

Community regulations: EC classification (67/548/EEC – 99/45/EC) and other regulations
Hazard symbols: Xi, Irritant



R and S Phrases: R10 Flammable
R36 Irritating to eyes
Other information: Not applicable

16. OTHER INFORMATION

The information in this safety data sheet is compiled in compliance with Directive 2001/58/EC dated 27 July 2001 and accurate to the best of our knowledge and experience at the date of issue specified.

The information on this Material Safety Data Sheet, while believed to be reliable, is intended for use by skilled persons at their own risk. Vectair Systems Limited assumes no responsibility for events resulting or damages incurred from its use. The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

The information is accurate to the best of our knowledge and is based on information which we consider is reliable. It is furnished without warranty.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Full text of R-phrases mentioned in section 2:

R10 Flammable
R11 Highly flammable
R21/22 Harmful in contact with skin and if swallowed
R34 May cause burns
R36 Irritating to eyes
R38 Irritating to skin
R41 Risk of serious damage to eyes
R50 Very toxic to aquatic organisms
R51/53 Toxic to aquatic organisms, 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