

SAFETY DATA SHEET

Quadrasan 300

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

SECTION 1: Identification of th	e substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product name	Quadrasan 300	
Product number	FQ- 300	
Internal identification	1250279	
UFI	UFI: 8E77-EYGV-TY1W-7WUJ	
1.2. Relevant identified uses of the substance or mixture and uses advised against		
Identified uses	Detergent.	
Uses advised against	Use only for intended applications.	
1.3. Details of the supplier of the	ne safety data sheet	
Supplier	Vectair Systems Ltd Unit 3, Trident Centre, Armstrong Road, Basingstoke, Hampshire, RG24 8NU, UK +44 1256 319500 emea.info@vectairsystems.com	
Contact person	Product development	
Manufacturer	Royal Sanders Industriepark Vliedberg 12 5251RG Vlijmen The Netherlands	
1.4. Emergency telephone number		
Emergency telephone	Vectair Systems Ltd +44 1256 319500 (Office Hours 09:00am to 17:00pm)	
National emergency telephone number	[UK] 111 NHS Direct (England/Wales 0845 46 47; NHS 24 Scotland 08454 24 24 24)	
SECTION 2: Hazards identification		
2.1. Classification of the subst		

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)	
Physical hazards	Flam. Liq. 3 - H226
Health hazards	Skin Irrit. 2 - H315 Eye Dam. 1 - H318
Environmental hazards	Aquatic Chronic 2 - H411

Classification in accordance with Directive 1907/2006/EEC

2.2. Label elements

Hazard pictograms





Signal word	Danger
Hazard statements	H226 Flammable liquid and vapour. H315 Causes skin irritation. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P501 Dispose of contents/ container in accordance with national regulations.
Contains	Laureth-3, quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides
Detergent labelling	5 - < 15% non-ionic surfactants, < 5% cationic surfactants, EDTA and salts thereof

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients		
3.2. Mixtures		
Aqua		60-100%
CAS number: 7732-18-5	EC number: 231-791-2	
ethanol		10-30%
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01- 2119457610-43-XXXX
Laureth-3		5-10%
CAS number: 3055-94-5	EC number: 221-280-2	
isopropanol		5-10%
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01- 2119457558-25-XXXX
quaternary ammonium compounds, benzyl-C8-18- alkyldimethyl, chlorides		1-2.5%
CAS number: 63449-41-2	EC number: 264-151-6	
Disodium EDTA[100%]		<0.25%
CAS number: 139-33-3	EC number: 205-358-3	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Skin contact	Rinse with water.
Eye contact	Rinse with water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.
4.2. Most important symptoms	and effects, both acute and delayed
General information	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Prolonged inhalation of high concentrations may damage respiratory system.
Ingestion	Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	Irritating to eyes.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	Treat symptomatically.
SECTION 5: Firefighting meas	sures
5.1. Extinguishing media	
Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising fr	om the substance or mixture
Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.
5.3. Advice for firefighters	

Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.	
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.	
SECTION 6: Accidental release	e measures	
6.1. Personal precautions, pro	tective equipment and emergency procedures	
Personal precautions	No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Provide adequate ventilation.	
6.2. Environmental precaution	S	
Environmental precautions	Avoid discharge into drains or watercourses or onto the ground.	
6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Do not empty into drains. For waste disposal, see Section 13.	

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.
7.2. Conditions for safe sto	rage, including any incompatibilities
Storage precautions	Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.
Storage class	Miscellaneous hazardous material storage.
7.3. Specific end use(s)	

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

ethanol

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³ WEL = Workplace Exposure Limit.

Ingredient

8.2. Exposure controls

Protective equipment



Appropriate engineering controls	Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Warn cleaning personnel of any hazardous properties of the product.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN136.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties		
9.1. Information on basic phys	ical and chemical properties	
Appearance	Colourless liquid.	
Colour	Colourless.	
Odour	Characteristic.	
Odour threshold	Not known.	
рН	pH (concentrated solution): 4.8	
Melting point	O°C	
Initial boiling point and range	Not determined.	
Flash point	> 23°C	
Evaporation rate	< 1	
Evaporation factor	Not determined.	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or explosive limits	Not determined.	
Other flammability	Not determined.	
Vapour pressure	>2300 Pa @ 20°C	
Vapour density	> 1	
Relative density	0.98 g/ml @ 20°C	
Bulk density	Not determined.	
Solubility(ies)	Soluble in water.	
Partition coefficient	Not determined.	
Auto-ignition temperature	399°C	
Decomposition Temperature	Not applicable.	
Viscosity	Not known.	
Explosive properties	Not considered to be explosive.	
Explosive under the influence of a flame	Not considered to be explosive.	
Oxidising properties	Not applicable.	
9.2. Other information		
Organic solvents		
SECTION 10: Stability and reactivity		
10.1. Reactivity		
Reactivity	There are no known reactivity hazards associated with this product.	
10.2. Chemical stability		
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.	

10.2 Descibility of boyordays	reactions.
10.3. Possibility of hazardous	
Possibility of hazardous reactions	No potentially hazardous reactions known.
10.4. Conditions to avoid	
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
10.5. Incompatible materials	
Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
10.6. Hazardous decompositio	n products
Hazardous decomposition	Does not decompose when used and stored as recommended. Thermal decomposition or
products	combustion products may include the following substances: Harmful gases or vapours.
SECTION 11: Toxicological inf	ormation
11.1. Information on toxicologi	cal effects
Acute toxicity - oral	
Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
ATE oral (mg/kg)	30,769.23
Acute toxicity - dermal	
Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
ATE dermal (mg/kg)	67,692.31
Acute toxicity - inhalation	
Notes (inhalation LC ₅₀)	Based on available data the classification criteria are not met.
Skin corrosion/irritation	
Animal data	Irritating.
Serious eye damage/irritation	
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory sensitisation	
Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation	
Skin sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.
Reproductive toxicity	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.
Specific target organ toxicity -	single exposure
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity -	repeated exposure
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard Aspiration hazard	Based on available data the classification criteria are not met.
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known.
Ingestion	May cause irritation.
Skin contact	Redness. Irritating to skin.
Eye contact	Irritating to eyes.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.
SECTION 12: Ecological infor	mation
12.1. Toxicity	
 Toxicity	Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.
12.2. Persistence and degrad	ability
	The degradability of the product is not known.
12.3. Bioaccumulative potentia	al
Bioaccumulative potential	— No data available on bioaccumulation.
Partition coefficient	Not determined.
12.4. Mobility in soil	
Mobility	No data available.
12.5. Results of PBT and vPv	B assessment
12.6. Other adverse effects	
Other adverse effects	None known.
SECTION 13: Disposal consid	lerations
13.1. Waste treatment method	
General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially

Disposal methods Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport information

hazardous.

14.1. UN number

UN No. (ADR/RID)	1987	
UN No. (IMDG)	1987	
UN No. (ICAO)	1987	
UN No. (ADN)	1987	
14.2. UN proper shipping name		
Proper shipping name (ADR/RID)	ALCOHOLS, N.O.S.	
Proper shipping name (IMDG)	ALCOHOLS, N.O.S.	
Proper shipping name (ICAO)	ALCOHOLS, N.O.S.	
Proper shipping name (ADN)	ALCOHOLS, N.O.S.	
14.3. Transport hazard class(es)		
ADR/RID class	3	
ADR/RID classification code	F1	
ADR/RID label	3	
IMDG class	3	
ICAO class/division	3	
ADN class	3	

Transport labels



14.4. Packing group	
ADR/RID packing group	Ш
IMDG packing group	Ш
ICAO packing group	Ш
ADN packing group	Ш

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

EmS	F-E, S-D
ADR transport category	3
Emergency Action Code	•3Y
Hazard Identification Number (ADR/RID)	30
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

SECTION 15: Regulatory information

National regulations	Health and Safety at Work etc. Act 1974 (as amended).
	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2000 No. 716).
	The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment
	Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
	EH40/2005 Workplace exposure limits.
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18
	December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of
	Chemicals (REACH) (as amended).
	Commission Regulation (EU) No 453/2010 of 20 May 2010.
	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16
	December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
	Dangerous Preparations Directive 1999/45/EC.
	Dangerous Substances Directive 67/548/EEC.
	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other information

Classification procedures according to Regulation (EC) 1272/2008	Skin Irrit. 2 - H315: : Calculation method. Eye Dam. 1 - H318: Calculation method. Aquatic Chronic 2 - H411: : Calculation method. Flam. Liq. 3 - H226: On basis of test data.
Training advice	Only trained personnel should use this material.
Revision comments	Revised formulation. New version generated in GHS software to supersede old SDS
Revision date	05/08/2021
Revision	7
Supersedes date	26/07/2021
SDS number	5470
Hazard statements in full	H226 Flammable liquid and vapour. H315 Causes skin irritation. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.