

SAFETY DATA SHEET

(according to Regulation (EC) No. 1907/2006)

**DUCK Fresh Discs - Lime Zest**

Version 1.0

Revision Date 30.01.2014

Print Date 20.09.2014

Specification Number: 350000021645

SITE FORM Number:

300000000000000015909.001

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier** : DUCK Fresh Discs - Lime Zest**1.2 Relevant identified uses of the substance or mixture and uses advised against****Use of the Substance/Mixture** : Washing and cleaning products (including solvent based products)**Uses advised against** : none known**1.3 Details of the supplier of the safety data sheet** : Pakex (UK) Plc
1 Prime Point
Bessemer Road
Welwyn Garden City
Herts
AL7 1FE**Telephone** : +441707 384858**E-mail address** : sales@pakexuk.com**1.4 Emergency telephone number** : 01707 384858**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Classification according to Regulation (EU) 1272/2008 with the correlation table 67/548/EEC or 1999/45/EC (Annex VII of CLP)

Hazard classification	Hazard category	Hazards identification
Chronic aquatic toxicity	Category 3	Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard statements

(H412) Harmful to aquatic life with long lasting effects.

Precautionary statements

(P102) Keep out of reach of children.

(P101) If medical advice is needed, have product container or label at hand.

(P301 + P312) IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

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

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Wash hands after handling product

Be attentive of young children when they are near the toilet. (In bold)

For use only in toilet bowls.

Keep out of the reach of pets.

As with any household product avoid prolonged skin contact with this product

Contains

d-limonene

May produce an allergic reaction.

Detergents regulations**: Contains**> 30% non-ionic surfactants perfume , Limonene, Citral, Geraniol,
Citronellol**2.3 Other hazards****: None identified****3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components**

Chemical Name	CAS-No./EC No	Reg. No	Classification according to Regulation (EC) No 1272/2008 (CLP)	Weight percent
Poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.-hydroxy-	9043-30-5/500-027-2	-	Serious eye damage Category 1 H318 Chronic aquatic toxicity Category 3 H412 Acute toxicity Category 4 H302	>= 1.00 - < 5.00
d-limonene	5989-27-5/227-813-5	-	Flammable liquids Category 3 H226 Skin irritation Category 2 H315 Skin sensitisation Category 1 H317 Acute aquatic toxicity	>= 0.10 - < 0.50

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			Category 1 H400 Chronic aquatic toxicity Category 1 H410	
2-tert-butylcyclohexyl acetate	88-41-5/201-828-7	-	Chronic aquatic toxicity Category 2 H411	>= 0.10 - < 0.50
undecan-4-olide	104-67-6/203-225-4	-	Chronic aquatic toxicity Category 3 H412	>= 0.10 - < 0.50
allyl 3-cyclohexylpropionate	2705-87-5/220-292-5	-	Acute aquatic toxicity Category 1 H400 Chronic aquatic toxicity Category 1 H410 Skin irritation Category 2 H315 Acute toxicity Category 4 H302 Acute toxicity Category 4 H312	>= 0.10 - < 0.50
3-iodo-2-propynyl butylcarbamate	55406-53-6/259-627-5	-	Chronic aquatic toxicity Category 1 H410 Acute aquatic toxicity Category 1 H400	>= 0.00 - < 0.10

WEL substance				
glycerol	56-81-5/200-289-5	-		>= 5.00 - < 10.00

Additional Information

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES**4.1 Description of first aid measures**

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Inhalation	: No special requirements
Skin contact	: Rinse with plenty of water. Get medical attention if irritation develops and persists.
Eye contact	: Rinse with plenty of water. Get medical attention if irritation develops and persists.
Ingestion	: If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Eyes	: No adverse effects expected when used as directed.
Skin effect	: No adverse effects expected when used as directed.
Inhalation	: No adverse effects expected when used as directed.
Ingestion	: No adverse effects expected when used as directed.

4.3 Indication of any immediate medical attention and special treatment needed

See Description of first aid measures unless otherwise stated.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable	: None identified

5.2 Special hazards arising from the substance or mixture

	: In case of fire and/or explosion do not breathe fumes. Exposure to decomposition products may be a hazard to health.
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Advice for firefighters

: In the event of fire, wear self-contained breathing apparatus. Wear suitable protective clothing and gloves. Refer to current EN or National standard as appropriate.

5.3 Further information

: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment.
- 6.2 Environmental precautions** : Prevent product from entering drains.
Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Use appropriate containment to avoid environmental contamination.
- 6.3 Methods and materials for containment and cleaning up** : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean residue from spill site.
Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections** : For personal protection see section 8.
For disposal considerations see section 13.

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling** : For personal protection see section 8.
Normal measures for preventive fire protection.
- 7.2 Conditions for safe storage, including any incompatibilities** : Do not freeze.
Keep out of the reach of children.
No decomposition if stored and applied as directed.
- 7.3 Specific end use(s)** : Consumer uses: Private households (= general public = consumers)
Washing and cleaning products (including solvent based products)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limit Values

Components	CAS-No.	mg/m ³	ppm	Form of exposure	List
glycerol	56-81-5	10 mg/m ³		mist	UK_WELTWAS
		30 mg/m ³		mist	UK_WELSTEL

Refer to current EN or National standard as appropriate.

8.2 Exposure controls

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Respiratory protection	: No personal respiratory protective equipment normally required.
Hand protection	: For prolonged or repeated contact use protective gloves.
Eye/face protection	: No special requirements.
Skin and body protection	: No special requirements.
Other information	: Wash hands before breaks and at the end of workday.
Environmental Exposure Controls	: Refer to section 6.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance	: gel
Colour	: green
Odour	: Citrus
Odour Threshold	: no data available
pH	: 4 - 6
Melting point/freezing point	: no data available
Initial boiling point and boiling range	: no data available
Flash point	: does not flash
Evaporation rate	: no data available
Flammability (solid, gas)	: The product is not flammable.
Upper/lower flammability or explosive limits	: no data available
Vapour pressure	: no data available
Vapour density	: no data available
Relative density	: 1.04 g/cm ³
Solubility(ies)	: completely soluble
Partition coefficient: n-	: no data available

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octanol/water

Auto-ignition temperature : no data available

Decomposition temperature : no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : no data available

Explosive properties : no data available

Oxidizing properties : no data available

Other information : None identified

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10. STABILITY AND REACTIVITY**10.1 Reactivity** : No dangerous reaction known under conditions of normal use.**10.2 Chemical stability** : Stable under recommended storage conditions.**10.3 Possibility of hazardous reactions** : None known.**10.4 Conditions to avoid** : Extremes of temperature and direct sunlight.**10.5 Incompatible materials** : None known.**10.6 Hazardous decomposition products** : No decomposition if stored and applied as directed.**11. TOXICOLOGICAL INFORMATION****Information on toxicological effects****Acute oral toxicity**

Name	Method	Species	Dose
Product	EU CLP LD50 Calculated		> 2,000 mg/kg

Acute inhalation toxicity

no data available

Acute dermal toxicity

Name	Method	Species	Dose
Product	EU CLP LD50 Calculated		> 2,000 mg/kg

Acute oral toxicity

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Name	Method	Species	Dose
Poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.- hydroxy-	EU CLP LD50	rat	500 mg/kg
d-limonene	EU CLP LD50	rat	> 2,000 mg/kg
2-tert-butylcyclohexyl acetate	EU CLP LD50 Measured	rat	4,600 mg/kg
undecan-4-olide	EU CLP LD50 Measured	rat	18,500 mg/kg
allyl 3-cyclohexylpropionate	EU CLP LD50	rat	480 mg/kg

Acute dermal toxicity

Name	Method	Species	Dose
d-limonene	LD50	rabbit	> 5 g/kg
2-tert-butylcyclohexyl acetate	EU CLP LD50	rabbit	> 5,000 mg/kg
undecan-4-olide	EU CLP LD50	rat	> 2,000 mg/kg
allyl 3-cyclohexylpropionate	EU CLP LD50	rabbit	1,600 mg/kg

Skin corrosion/irritation : Based on available data, the classification criteria are not met.

Serious eye damage/eye
irritation : Based on available data, the classification criteria are not met.

Skin sensitisation : Based on available data, the classification criteria are not met.

Germ cell mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxicity for reproduction : Based on available data, the classification criteria are not met.

STOT - single exposure : Based on available data, the classification criteria are not met.

STOT - repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION**Product** : The product itself has not been tested.**12.1 Toxicity**

Components	Acute aquatic toxicity	M-Factor	Chronic aquatic toxicity	M-Factor
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Poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.- hydroxy-	No classification proposed		Harmful to aquatic life with long lasting effects.	
d-limonene	Very toxic to aquatic life.	1	Very toxic to aquatic life with long lasting effects.	1
2-tert-butylcyclohexyl acetate	No classification proposed		Toxic to aquatic life with long lasting effects.	
undecan-4-olide	No classification proposed		Harmful to aquatic life with long lasting effects.	
allyl 3-cyclohexylpropionate	Very toxic to aquatic life.	1	Very toxic to aquatic life with long lasting effects.	1
3-iodo-2-propynyl butylcarbamate	Very toxic to aquatic life.	10	Very toxic to aquatic life with long lasting effects.	1
glycerol	No classification proposed		No classification proposed	

12.2 Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.- hydroxy-	79 %	28 d	Readily biodegradable.
d-limonene	80 %	28 d	Readily biodegradable.
2-tert-butylcyclohexyl acetate	no data available		
undecan-4-olide	82 %	28 d	Readily biodegradable.
allyl 3-cyclohexylpropionate	86 %	28 d	Readily biodegradable.
3-iodo-2-propynyl butylcarbamate	no data available		
glycerol	75.3 % 94 %	10 d 24 h	Readily biodegradable.

12.3 Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.- hydroxy-	no data available	3.59
d-limonene	360.5	4.38

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2-tert-butylcyclohexyl acetate	no data available	no data available
undecan-4-olide	no data available	3.6
allyl 3-cyclohexylpropionate	307.8	4.28
3-iodo-2-propynyl butylcarbamate	4.39	2.45
glycerol	0.89	-1.76

12.4 Mobility

Component	End point	Value
Poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.-hydroxy-		no data available
d-limonene	Koc	6324
2-tert-butylcyclohexyl acetate		no data available
undecan-4-olide		no data available
allyl 3-cyclohexylpropionate	log Koc	3.26
3-iodo-2-propynyl butylcarbamate		no data available
glycerol		no data available

12.5 PBT and vPvB assessment

Component	Results
Poly(oxy-1,2-ethanediyl), .alpha.-isotridecyl-.omega.-hydroxy-	Not fulfilling PBT and vPvB criteria
d-limonene	Not fulfilling PBT and vPvB criteria
2-tert-butylcyclohexyl acetate	Not fulfilling PBT and vPvB criteria
undecan-4-olide	Not fulfilling PBT and vPvB criteria
allyl 3-cyclohexylpropionate	Not fulfilling PBT and vPvB criteria
3-iodo-2-propynyl butylcarbamate	Not fulfilling PBT and vPvB criteria
glycerol	Not fulfilling PBT and vPvB criteria

12.6 Other adverse effects : None known.**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Product : Do not dispose of waste into sewer.

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Do not contaminate ponds, waterways or ditches with chemical or used container.
Disposal should be in accordance with local, state or national legislation.
Please recycle empty packaging.

Packaging : Do not re-use empty containers.

14. TRANSPORT INFORMATION

Land transport

Not classified as dangerous in the meaning of transport regulations.

Sea transport

Not classified as dangerous in the meaning of transport regulations.

Air transport

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

If applicable, revision(s) are noted by the bold bars || in left-hand margin.

Further information

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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