

D-EASY ORANGE & LEMON

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

- 1.1 Product identifier:** D-EASY ORANGE & LEMON
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
 Relevant uses: Multiuse cleaner. For professional user/industrial user only.
 Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**
 Detergentes y Desinfectantes, S.A.
 Polígono Industrial Partida Alameda, parcela B
 46721 Potries - Valencia - Spain
 Phone.: +34962800718 - Fax: +34962899379
 dydsa@dydsa.com
 www.dydsa.com
- 1.4 Emergency telephone number:** 915 620 420

SECTION 2: HAZARDS IDENTIFICATION **

- 2.1 Classification of the substance or mixture:**
CLP Regulation (EC) No 1272/2008:
 Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.
 Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
 Eye Dam. 1: Serious eye damage, Category 1, H318
 Flam. Liq. 2: Flammable liquids, Category 2, H225
 Repr. 1B: Reproductive toxicity, Category 1B, H360
 Skin Irrit. 2: Skin irritation, Category 2, H315
 Skin Sens. 1B: Sensitisation, skin, Category 1B, H317
 STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger



Hazard statements:

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
 Eye Dam. 1: H318 - Causes serious eye damage
 Flam. Liq. 2: H225 - Highly flammable liquid and vapour
 Repr. 1B: H360 - May damage fertility or the unborn child
 Skin Irrit. 2: H315 - Causes skin irritation
 Skin Sens. 1B: H317 - May cause an allergic skin reaction
 STOT SE 3: H336 - May cause drowsiness or dizziness

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
 P280: Wear protective gloves/protective clothing/eye protection/face protection
 P302+P352: IF ON SKIN: Wash with plenty of water
 P304+P340: IF INHALED: Remove person to fresh air and keep 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
 P308+P313: IF exposed or concerned: Get medical advice/attention
 P370+P378: In case of fire: Use ABC powder extinguisher to extinguish
 P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively

Supplementary information:

EUH208: Contains 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, Cedryl methyl ketone, Citral, Citronellal, Citronellol, d-limonene, Dodecanal, Geraniol, Linalool. May produce an allergic reaction

Substances that contribute to the classification

Alcohols, C11-14, ethoxylated; Propan-2-ol; 2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch; 2-methylundecanal

** Changes with regards to the previous version

D-EASY ORANGE & LEMON

SECTION 2: HAZARDS IDENTIFICATION ** (continued)

Additional Labelling (Annex XVII, REACH):

Restricted to professional users

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

** Changes with regards to the previous version

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Mixture of substances

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 78330-21-9 EC: Non-applicable Index: Non-applicable REACH Non-applicable :	Alcohols, C11-14, ethoxylated ^[1] Regulation 1272/2008 Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	Self-classified 50 - <75 %
CAS: 67-63-0 EC: 200-661-7 Index: 603-117-00-0 REACH 01-2119457558-25- : XXXX	Propan-2-ol ^[1] Regulation 1272/2008 Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	ATP CLP00 10 - <25 %
CAS: 80-54-6 EC: 201-289-8 Index: Non-applicable REACH 01-2119485965-18- : XXXX	2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch ^[1] Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Chronic 3: H412; Repr. 1B: H360; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Danger	Self-classified 2,5 - <10 %
CAS: 93-04-9 EC: 202-213-6 Index: Non-applicable REACH 01-2119937828-21- : XXXX	Methyl 2-naphthyl ether ^[1] Regulation 1272/2008 Acute Tox. 4: H302; Aquatic Chronic 2: H411 - Warning	Self-classified 1 - <2,5 %
CAS: 110-41-8 EC: 203-765-0 Index: Non-applicable REACH 01-2119969443-29- : XXXX	2-methylundecanal ^[1] Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	Self-classified 1 - <2,5 %
CAS: 106-22-9 EC: 203-375-0 Index: Non-applicable REACH 01-2119453995-23- : XXXX	Citronellol ^[1] Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	Self-classified 1 - <2,5 %
CAS: 32388-55-9 EC: 251-020-3 Index: Non-applicable REACH 01-2119969651-28- : XXXX	Cedryl methyl ketonel ^[1] Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Skin Sens. 1B: H317 - Warning	Self-classified 1 - <2,5 %
CAS: 5392-40-5 EC: 226-394-6 Index: 605-019-00-3 REACH 01-2119462829-23- : XXXX	Citral ^[1] Regulation 1272/2008 Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	ATP CLP00 <1 %
CAS: 5989-27-5 EC: 227-813-5 Index: 601-029-00-7 REACH 01-2119529223-47- : XXXX	d-limonenol ^[1] Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	ATP CLP00 <1 %
CAS: 106-23-0 EC: 203-376-6 Index: Non-applicable REACH 01-2119474900-37- : XXXX	Citronellal ^[1] Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning	Self-classified <1 %

[1] Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

** Changes with regards to the previous version

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS ** (continued)

Identification	Chemical name/Classification	Concentration
CAS: 68039-49-6 EC: 268-264-1 Index: Non-applicable REACHNon-applicable :	2,4-dimethylcyclohex-3-ene-1-carbaldehid ^[H] Regulation 1272/2008 Aquatic Chronic 2: H411; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	Self-classified <1 %
CAS: 112-54-9 EC: 203-983-6 Index: Non-applicable REACH01-2119969441-33- XXXX	Dodecanal ^[H] Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	Self-classified <1 %
CAS: 1222-05-5 EC: 214-946-9 Index: 603-212-00-7 REACH01-2119488227-29- XXXX	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran ^[H] Regulation 1272/2008 Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Warning	ATP ATP01 <1 %
CAS: 78-70-6 EC: 201-134-4 Index: 603-235-00-2 REACH01-2119474016-42- XXXX	Linalool ^[H] Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning	Self-classified <1 %
CAS: 106-24-1 EC: 203-377-1 Index: Non-applicable REACH01-2119552430-49- XXXX	Geraniol ^[H] Regulation 1272/2008 Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger	Self-classified <1 %

[H] Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

To obtain more information on the hazards of the substances consult sections 8, 11, 12, 15 and 16.

** Changes with regards to the previous version

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂). IT IS RECOMMENDED NOT to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

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SECTION 5: FIREFIGHTING MEASURES (continued)

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 94/9/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with the necessary safety conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to small amounts only. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 °C

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SECTION 7: HANDLING AND STORAGE (continued)

Maximum Temp.: 30 °C
Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace

There are no occupational exposure limits for the substances contained in the product

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Propan-2-ol CAS: 67-63-0 EC: 200-661-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	888 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	500 mg/m ³	Non-applicable
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	2,075 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,44 mg/m ³	Non-applicable
Methyl 2-naphthyl ether CAS: 93-04-9 EC: 202-213-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,895042105 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	2,160348 mg/m ³	Non-applicable
2-methylundecanal CAS: 110-41-8 EC: 203-765-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	25,2 mg/m ³	Non-applicable
Citronellol CAS: 106-22-9 EC: 203-375-0	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	327,4 mg/kg	Non-applicable
	Inhalation	Non-applicable	10 mg/m ³	161,6 mg/m ³	10 mg/m ³
Cedryl methyl ketone CAS: 32388-55-9 EC: 251-020-3	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,333 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	1,175 mg/m ³	Non-applicable
Citral CAS: 5392-40-5 EC: 226-394-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	9 mg/m ³	Non-applicable
d-limonene CAS: 5989-27-5 EC: 227-813-5	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Inhalation	Non-applicable	Non-applicable	33,3 mg/m ³	Non-applicable
Citronellal CAS: 106-23-0 EC: 203-376-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,7 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	9 mg/m ³	Non-applicable
Dodecanal CAS: 112-54-9 EC: 203-983-6	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	14,1 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	49,7 mg/m ³	Non-applicable
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	28,85 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	5,29 mg/m ³	Non-applicable
Linalool CAS: 78-70-6 EC: 201-134-4	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	5 mg/kg	Non-applicable	2,5 mg/kg	Non-applicable
	Inhalation	16,5 mg/m ³	Non-applicable	2,8 mg/m ³	Non-applicable

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Geraniol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 106-24-1	Dermal	Non-applicable	Non-applicable	8,3 mg/kg	Non-applicable
EC: 203-377-1	Inhalation	Non-applicable	Non-applicable	29,4 mg/m ³	Non-applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Propan-2-ol	Oral	Non-applicable	Non-applicable	26 mg/kg	Non-applicable
CAS: 67-63-0	Dermal	Non-applicable	Non-applicable	319 mg/kg	Non-applicable
EC: 200-661-7	Inhalation	Non-applicable	Non-applicable	89 mg/m ³	Non-applicable
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch	Oral	Non-applicable	Non-applicable	0,0625 mg/kg	Non-applicable
CAS: 80-54-6	Dermal	Non-applicable	Non-applicable	1,0375 mg/kg	Non-applicable
EC: 201-289-8	Inhalation	Non-applicable	Non-applicable	0,11 mg/m ³	Non-applicable
Methyl 2-naphthyl ether	Oral	Non-applicable	Non-applicable	3,790084211 mg/kg	Non-applicable
CAS: 93-04-9	Dermal	Non-applicable	Non-applicable	0,467304348 mg/kg	Non-applicable
EC: 202-213-6	Inhalation	Non-applicable	Non-applicable	0,5374 mg/m ³	Non-applicable
2-methylundecanal	Oral	Non-applicable	Non-applicable	3,5 mg/kg	Non-applicable
CAS: 110-41-8	Dermal	Non-applicable	Non-applicable	3,5 mg/kg	Non-applicable
EC: 203-765-0	Inhalation	Non-applicable	Non-applicable	3,1 mg/m ³	Non-applicable
Citronellol	Oral	Non-applicable	Non-applicable	13,8 mg/kg	Non-applicable
CAS: 106-22-9	Dermal	Non-applicable	Non-applicable	196,4 mg/kg	Non-applicable
EC: 203-375-0	Inhalation	Non-applicable	10 mg/m ³	47,8 mg/m ³	10 mg/m ³
Cedryl methyl ketone	Oral	Non-applicable	Non-applicable	0,166 mg/kg	Non-applicable
CAS: 32388-55-9	Dermal	Non-applicable	Non-applicable	0,166 mg/kg	Non-applicable
EC: 251-020-3	Inhalation	Non-applicable	Non-applicable	0,289 mg/m ³	Non-applicable
Citral	Oral	Non-applicable	Non-applicable	0,6 mg/kg	Non-applicable
CAS: 5392-40-5	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
EC: 226-394-6	Inhalation	Non-applicable	Non-applicable	2,7 mg/m ³	Non-applicable
d-limonene	Oral	Non-applicable	Non-applicable	4,76 mg/kg	Non-applicable
CAS: 5989-27-5	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 227-813-5	Inhalation	Non-applicable	Non-applicable	8,33 mg/m ³	Non-applicable
Citronellal	Oral	Non-applicable	Non-applicable	0,6 mg/kg	Non-applicable
CAS: 106-23-0	Dermal	Non-applicable	Non-applicable	1 mg/kg	Non-applicable
EC: 203-376-6	Inhalation	Non-applicable	Non-applicable	2,7 mg/m ³	Non-applicable
Dodecanal	Oral	Non-applicable	Non-applicable	7 mg/kg	Non-applicable
CAS: 112-54-9	Dermal	Non-applicable	Non-applicable	7 mg/kg	Non-applicable
EC: 203-983-6	Inhalation	Non-applicable	Non-applicable	12,3 mg/m ³	Non-applicable
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	Oral	Non-applicable	Non-applicable	0,75 mg/kg	Non-applicable
CAS: 1222-05-5	Dermal	Non-applicable	Non-applicable	14,43 mg/kg	Non-applicable
EC: 214-946-9	Inhalation	Non-applicable	Non-applicable	1,3 mg/m ³	Non-applicable
Linalool	Oral	1,2 mg/kg	Non-applicable	0,2 mg/kg	Non-applicable
CAS: 78-70-6	Dermal	2,5 mg/kg	Non-applicable	1,25 mg/kg	Non-applicable
EC: 201-134-4	Inhalation	4,1 mg/m ³	Non-applicable	0,7 mg/m ³	Non-applicable
Geraniol	Oral	Non-applicable	Non-applicable	2,5 mg/kg	Non-applicable
CAS: 106-24-1	Dermal	Non-applicable	Non-applicable	5 mg/kg	Non-applicable
EC: 203-377-1	Inhalation	Non-applicable	Non-applicable	8,7 mg/m ³	Non-applicable

PNEC:

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Propan-2-ol CAS: 67-63-0 EC: 200-661-7	STP	2251 mg/L	Fresh water	140,9 mg/L
	Soil	28 mg/kg	Marine water	140,9 mg/L
	Intermittent	140,9 mg/L	Sediment (Fresh water)	552 mg/kg
	Oral	160 g/kg	Sediment (Marine water)	552 mg/kg
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	STP	10 mg/L	Fresh water	0,00204 mg/L
	Soil	0,0525 mg/kg	Marine water	0,0002 mg/L
	Intermittent	0,024 mg/L	Sediment (Fresh water)	0,269 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0269 mg/kg
Methyl 2-naphthyl ether CAS: 93-04-9 EC: 202-213-6	STP	0,834 mg/L	Fresh water	0,1108 mg/L
	Soil	46,5727856 mg/kg	Marine water	0,01108 mg/L
	Intermittent	0,0554 mg/L	Sediment (Fresh water)	99,5023888 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	99,5023888 mg/kg
2-methylundecanal CAS: 110-41-8 EC: 203-765-0	STP	10 mg/L	Fresh water	0,00018 mg/L
	Soil	0,0136 mg/kg	Marine water	0,000018 mg/L
	Intermittent	0,0018 mg/L	Sediment (Fresh water)	0,072 mg/kg
	Oral	313 g/kg	Sediment (Marine water)	0,00722 mg/kg
Citronellol CAS: 106-22-9 EC: 203-375-0	STP	580 mg/L	Fresh water	0,0024 mg/L
	Soil	0,00371 mg/kg	Marine water	0,00024 mg/L
	Intermittent	0,024 mg/L	Sediment (Fresh water)	0,0256 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,00256 mg/kg
Cedryl methyl ketone CAS: 32388-55-9 EC: 251-020-3	STP	10 mg/L	Fresh water	0,00174 mg/L
	Soil	4,87 mg/kg	Marine water	0,000174 mg/L
	Intermittent	0,0086 mg/L	Sediment (Fresh water)	24,4 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	2,44 mg/kg
Citral CAS: 5392-40-5 EC: 226-394-6	STP	1,6 mg/L	Fresh water	0,00678 mg/L
	Soil	0,0209 mg/kg	Marine water	0,000678 mg/L
	Intermittent	0,0678 mg/L	Sediment (Fresh water)	0,125 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0125 mg/kg
d-limonene CAS: 5989-27-5 EC: 227-813-5	STP	1,8 mg/L	Fresh water	0,0054 mg/L
	Soil	0,262 mg/kg	Marine water	0,00054 mg/L
	Intermittent	Non-applicable	Sediment (Fresh water)	1,32 mg/kg
	Oral	3,33 g/kg	Sediment (Marine water)	0,13 mg/kg
Citronellal CAS: 106-23-0 EC: 203-376-6	STP	4 mg/L	Fresh water	0,00868 mg/L
	Soil	0,0267 mg/kg	Marine water	0,00087 mg/L
	Intermittent	0,0868 mg/L	Sediment (Fresh water)	0,159 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0159 mg/kg
Dodecanal CAS: 112-54-9 EC: 203-983-6	STP	10 mg/L	Fresh water	0,0035 mg/L
	Soil	0,278 mg/kg	Marine water	0,00035 mg/L
	Intermittent	0,035 mg/L	Sediment (Fresh water)	1,41 mg/kg
	Oral	313 g/kg	Sediment (Marine water)	0,141 mg/kg
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	STP	1 mg/L	Fresh water	0,0044 mg/L
	Soil	0,31 mg/kg	Marine water	0,00044 mg/L
	Intermittent	0,047 mg/L	Sediment (Fresh water)	2 mg/kg
	Oral	3,3 g/kg	Sediment (Marine water)	0,394 mg/kg
Linalool CAS: 78-70-6 EC: 201-134-4	STP	10 mg/L	Fresh water	0,2 mg/L
	Soil	0,327 mg/kg	Marine water	0,02 mg/L
	Intermittent	2 mg/L	Sediment (Fresh water)	2,22 mg/kg
	Oral	7,8 g/kg	Sediment (Marine water)	0,222 mg/kg
Geraniol CAS: 106-24-1 EC: 203-377-1	STP	0,7 mg/L	Fresh water	0,0108 mg/L
	Soil	0,0167 mg/kg	Marine water	0,00108 mg/L
	Intermittent	0,108 mg/L	Sediment (Fresh water)	0,115 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,0115 mg/kg

8.2 Exposure controls:

- CONTINUED ON NEXT PAGE -

D-EASY ORANGE & LEMON

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

A.- General security and hygiene measures in the work place



As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection



The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands



Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Protective gloves against minor risks			Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420 and EN 374.

"As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"



D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.		EN 166:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing			Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2001, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes		EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345 y EN 13832-1

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	24,3 % weight
V.O.C. density at 20 °C:	223,93 kg/m ³ (223,93 g/L)
Average carbon number:	4,39
Average molecular weight:	78,24 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

D-EASY ORANGE & LEMON

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C:	Liquid
Appearance:	Not available
Colour:	Orange
Odour:	Not available
Odour threshold:	Non-applicable *

Volatility:

Boiling point at atmospheric pressure:	112 °C
Vapour pressure at 20 °C:	4061 Pa
Vapour pressure at 50 °C:	153,11 (20,41 kPa)
Evaporation rate at 20 °C:	Non-applicable *

Product description:

Density at 20 °C:	921 kg/m ³
Relative density at 20 °C:	0,921
Dynamic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 20 °C:	Non-applicable *
Kinematic viscosity at 40 °C:	Non-applicable *
Concentration:	Non-applicable *
pH:	Non-applicable *
Vapour density at 20 °C:	Non-applicable *
Partition coefficient n-octanol/water 20 °C:	Non-applicable *
Solubility in water at 20 °C:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *

Flammability:

Flash Point:	19 °C
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	202 °C
Lower flammability limit:	Not available
Upper flammability limit:	Not available

Explosive:

Lower explosive limit:	Non-applicable *
Upper explosive limit:	Non-applicable *

9.2 Other information:

Surface tension at 20 °C:	Non-applicable *
Refraction index:	Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

- CONTINUED ON NEXT PAGE -

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SECTION 10: STABILITY AND REACTIVITY (continued)

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION **

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
IARC: Coumarin (3); Eugenol (3); d-limonene (3); Propan-2-ol (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: May damage fertility or the unborn child

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

G- Specific target organ toxicity (STOT)-repeated exposure:

** Changes with regards to the previous version

D-EASY ORANGE & LEMON

SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
	Route	Value	
Citronellol CAS: 106-22-9 EC: 203-375-0	LD50 oral	3450 mg/kg	Rat
	LD50 dermal	2650 mg/kg	
	LC50 inhalation	Non-applicable	
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	LD50 oral	1390 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
2-methylundecanal CAS: 110-41-8 EC: 203-765-0	LD50 oral	5100 mg/kg	Rat
	LD50 dermal	8300 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Propan-2-ol CAS: 67-63-0 EC: 200-661-7	LD50 oral	5280 mg/kg	Rat
	LD50 dermal	12800 mg/kg	Rat
	LC50 inhalation	72,6 mg/L (4 h)	Rat
Methyl 2-naphthyl ether CAS: 93-04-9 EC: 202-213-6	LD50 oral	1740 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Citral CAS: 5392-40-5 EC: 226-394-6	LD50 oral	4950 mg/kg	Rat
	LD50 dermal	2250 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
d-limonene CAS: 5989-27-5 EC: 227-813-5	LD50 oral	4400 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Citronellal CAS: 106-23-0 EC: 203-376-6	LD50 oral	2500 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
2,4-dimethylcyclohex-3-ene-1-carbaldehyde CAS: 68039-49-6 EC: 268-264-1	LD50 oral	2500 mg/kg	
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Dodecanal CAS: 112-54-9 EC: 203-983-6	LD50 oral	23100 mg/kg	Rat
	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	
Linalool CAS: 78-70-6 EC: 201-134-4	LD50 oral	3000 mg/kg	Rat
	LD50 dermal	5610 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	
Geraniol CAS: 106-24-1 EC: 203-377-1	LD50 oral	4200 mg/kg	Rat
	LD50 dermal	5100 mg/kg	Rabbit
	LC50 inhalation	Non-applicable	

** Changes with regards to the previous version

SECTION 12: ECOLOGICAL INFORMATION **

The experimental information related to the eco-toxicological properties of the product itself is not available

** Changes with regards to the previous version

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SECTION 12: ECOLOGICAL INFORMATION ** (continued)

12.1 Toxicity:

Identification	Acute toxicity	Species	Genus
Propan-2-ol CAS: 67-63-0 EC: 200-661-7	LC50 9640 mg/L (96 h)	Pimephales promelas	Fish
	EC50 13299 mg/L (48 h)	Daphnia magna	Crustacean
	EC50 1000 mg/L (72 h)	Scenedesmus subspicatus	Algae
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	LC50 2 mg/L (96 h)	Danio rerio	Fish
	EC50 11 mg/L (48 h)	Daphnia magna	Crustacean
	EC50 29 mg/L (72 h)	Desmodesmus subspicatus	Algae
Methyl 2-naphthyl ether CAS: 93-04-9 EC: 202-213-6	LC50 2 mg/L (96 h)	QSAR	Fish
	EC50 4.04 mg/L (48 h)	Daphnia pulex	Crustacean
	EC50 5.4 mg/L (96 h)	QSAR	Fish
2-methylundecanal CAS: 110-41-8 EC: 203-765-0	LC50 0.35 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50 0.21 mg/L (48 h)	Daphnia magna	Crustacean
	EC50 0.11 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
Cedryl methyl ketone CAS: 32388-55-9 EC: 251-020-3	LC50 0.1 - 1 mg/L (96 h)		Fish
	EC50 0.1 - 1 mg/L		Crustacean
	EC50 0.1 - 1 mg/L		Algae
Citral CAS: 5392-40-5 EC: 226-394-6	LC50 6.1 mg/L (24 h)	Oryzias latipes	Fish
	EC50 11 mg/L (24 h)	Daphnia magna	Crustacean
	EC50 16 mg/L (72 h)	Scenedesmus subspicatus	Algae
d-limonene CAS: 5989-27-5 EC: 227-813-5	LC50 0.702 mg/L (96 h)	Pimephales promelas	Fish
	EC50 0.577 mg/L (48 h)	Daphnia magna	Crustacean
	EC50 Non-applicable		
2,4-dimethylcyclohex-3-ene-1-carbaldehyde CAS: 68039-49-6 EC: 268-264-1	LC50 1 - 10 mg/L (96 h)		Fish
	EC50 1 - 10 mg/L		Crustacean
	EC50 1 - 10 mg/L		Algae
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	LC50 0.1 - 1 mg/L (96 h)		Fish
	EC50 0.1 - 1 mg/L		Crustacean
	EC50 0.1 - 1 mg/L		Algae
Linalool CAS: 78-70-6 EC: 201-134-4	LC50 27.8 mg/L (96 h)	Oncorhynchus mykiss	Fish
	EC50 59 mg/L (48 h)	Daphnia magna	Crustacean
	EC50 88.3 mg/L (96 h)	Scenedesmus subspicatus	Algae

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
	Parameter	Value	Parameter	Value
Propan-2-ol CAS: 67-63-0 EC: 200-661-7	BOD5	1.19 g O2/g	Concentration	100 mg/L
	COD	2.23 g O2/g	Period	14 days
	BOD5/COD	0.53	% Biodegradable	86 %
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	BOD5	Non-applicable	Concentration	20 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	81 %
Methyl 2-naphthyl ether CAS: 93-04-9 EC: 202-213-6	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	15 days
	BOD5/COD	Non-applicable	% Biodegradable	50 %
2-methylundecanal CAS: 110-41-8 EC: 203-765-0	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	68 %
Citral CAS: 5392-40-5 EC: 226-394-6	BOD5	0.56 g O2/g	Concentration	100 mg/L
	COD	1.99 g O2/g	Period	28 days
	BOD5/COD	0.28	% Biodegradable	92 %
d-limonene CAS: 5989-27-5 EC: 227-813-5	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	100 %

** Changes with regards to the previous version

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D-EASY ORANGE & LEMON

SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Degradability		Biodegradability	
	Parameter	Value	Parameter	Value
Linalool CAS: 78-70-6 EC: 201-134-4	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	0.55	% Biodegradable	90 %
Geraniol CAS: 106-24-1 EC: 203-377-1	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	21 days
	BOD5/COD	Non-applicable	% Biodegradable	70 %

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
	Parameter	Value
Propan-2-ol CAS: 67-63-0 EC: 200-661-7	BCF	3
	Pow Log	0.05
	Potential	Low
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	BCF	275
	Pow Log	4.2
	Potential	High
Methyl 2-naphthyl ether CAS: 93-04-9 EC: 202-213-6	BCF	209
	Pow Log	3.18
	Potential	High
2-methylundecanal CAS: 110-41-8 EC: 203-765-0	BCF	
	Pow Log	5
	Potential	
Citral CAS: 5392-40-5 EC: 226-394-6	BCF	10
	Pow Log	3.45
	Potential	Low
d-limonene CAS: 5989-27-5 EC: 227-813-5	BCF	660
	Pow Log	4.83
	Potential	High
Citronellal CAS: 106-23-0 EC: 203-376-6	BCF	280
	Pow Log	3.53
	Potential	High
1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran CAS: 1222-05-5 EC: 214-946-9	BCF	1584
	Pow Log	5.9
	Potential	Very High
Linalool CAS: 78-70-6 EC: 201-134-4	BCF	39
	Pow Log	2.97
	Potential	Moderate
Geraniol CAS: 106-24-1 EC: 203-377-1	BCF	110
	Pow Log	3.56
	Potential	High

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
	Parameter	Value	Parameter	Value
Propan-2-ol CAS: 67-63-0 EC: 200-661-7	Koc	1.5	Henry	8,207E-1 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2,24E-2 N/m (25 °C)	Moist soil	Yes
2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch CAS: 80-54-6 EC: 201-289-8	Koc	1285	Henry	2,52 Pa·m ³ /mol
	Conclusion	Low	Dry soil	Yes
	Surface tension	Non-applicable	Moist soil	Yes
Methyl 2-naphthyl ether CAS: 93-04-9 EC: 202-213-6	Koc	1590	Henry	3,15 Pa·m ³ /mol
	Conclusion	Low	Dry soil	Yes
	Surface tension	Non-applicable	Moist soil	Yes
2-methylundecanal CAS: 110-41-8 EC: 203-765-0	Koc	4000	Henry	Non-applicable
	Conclusion	Low	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable

** Changes with regards to the previous version

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D-EASY ORANGE & LEMON

SECTION 12: ECOLOGICAL INFORMATION ** (continued)

Identification	Absorption/desorption		Volatility	
d-limonene CAS: 5989-27-5 EC: 227-813-5	Koc	6324	Henry	2533,13 Pa·m ³ /mol
	Conclusion	Immobile	Dry soil	Yes
	Surface tension	2,675E-2 N/m (25 °C)	Moist soil	Yes
Dodecanal CAS: 112-54-9 EC: 203-983-6	Koc	Non-applicable	Henry	Non-applicable
	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	2,867E-2 N/m (25 °C)	Moist soil	Non-applicable

12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

** Changes with regards to the previous version

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
20 01 29*	detergents containing hazardous substances	Dangerous

Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP3 Flammable, HP4 Irritant – skin irritation and eye damage, HP10 Toxic for reproduction

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2017 and RID 2017:



- | | |
|---|---|
| 14.1 UN number: | UN1993 |
| 14.2 UN proper shipping name: | FLAMMABLE LIQUID, N.O.S. (Propan-2-ol; Methyl 2-naphthyl ether) |
| 14.3 Transport hazard class(es): | 3 |
| Labels: | 3 |
| 14.4 Packing group: | II |
| 14.5 Environmental hazards: | Yes |
| 14.6 Special precautions for user | |
| Special regulations: | 274, 601, 640D |
| Tunnel restriction code: | D/E |
| Physico-Chemical properties: | see section 9 |
| Limited quantities: | 1 L |
| 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: | Non-applicable |

Transport of dangerous goods by sea:

With regard to IMDG 38-16:

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D-EASY ORANGE & LEMON

SECTION 14: TRANSPORT INFORMATION (continued)



14.1 UN number:	UN1993
14.2 UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Propan-2-ol; Methyl 2-naphthyl ether)
14.3 Transport hazard class(es):	3
Labels:	3
14.4 Packing group:	II
14.5 Environmental hazards:	Yes
14.6 Special precautions for user	
Special regulations:	274
EmS Codes:	F-E, S-E
Physico-Chemical properties:	see section 9
Limited quantities:	1 L
Segregation group:	Non-applicable
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2018:



14.1 UN number:	UN1993
14.2 UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Propan-2-ol; Methyl 2-naphthyl ether)
14.3 Transport hazard class(es):	3
Labels:	3
14.4 Packing group:	II
14.5 Environmental hazards:	Yes
14.6 Special precautions for user	
Physico-Chemical properties:	see section 9
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable
 Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable
 Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable
 Article 95, REGULATION (EU) No 528/2012: Propan-2-ol (Product-type 1, 2, 4) ; Geraniol (Product-type 18, 19)
 REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Regulation (EC) No 648/2004 on detergents:

In accordance with this regulation the product complies with the following:

The tensoactives contained in this mixture comply with the biodegradability criteria stipulated in Regulation (EC) n°648/2004 on detergents. The information to prove this is available to the relevant authorities of the Member States and will be shown to them by direct request or the request of a detergent manufacturer.

Labelling for contents:

Component	Concentration interval
Non-ionic surfactants	% (w/w) >= 30
perfumes	

Allergenic fragrances: 2-(4-tert-Butylbenzyl)propionaldehyde, Lysmeral technisch (BUTYLPHENYL METHYLPROPIONAL), Citral (CITRAL), Citronellol (CITRONELLOL), d-limonene (LIMONENE), Geraniol (GERANIOL), Linalool (LINALOOL).

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c		5000	50000
E2		200	500

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ...):

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D-EASY ORANGE & LEMON

SECTION 15: REGULATORY INFORMATION (continued)

Product classified hazardous under the CMR. Sale and distribution to the general public is prohibited. Due to its CMR category, it is essential to apply the specific measures for workplace hazard prevention covered in articles 4 and 5 of the 2004/37/EC Directive and later modifications.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

- Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products
- Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents
- Commission Regulation (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII
- Commission Regulation (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation)

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION **

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- New declared substances
- Linalool (78-70-6)

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Pictograms
- Hazard statements
- Precautionary statements

Texts of the legislative phrases mentioned in section 2:

- H317: May cause an allergic skin reaction
- H315: Causes skin irritation
- H318: Causes serious eye damage
- H360: May damage fertility or the unborn child
- H411: Toxic to aquatic life with long lasting effects
- H336: May cause drowsiness or dizziness
- H225: Highly flammable liquid and vapour

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

- Acute Tox. 4: H302 - Harmful if swallowed
- Aquatic Acute 1: H400 - Very toxic to aquatic life
- Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects
- Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects
- Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects
- Eye Dam. 1: H318 - Causes serious eye damage
- Eye Irrit. 2: H319 - Causes serious eye irritation
- Flam. Liq. 2: H225 - Highly flammable liquid and vapour
- Flam. Liq. 3: H226 - Flammable liquid and vapour
- Repr. 1B: H360 - May damage fertility or the unborn child
- Skin Irrit. 2: H315 - Causes skin irritation
- Skin Sens. 1: H317 - May cause an allergic skin reaction
- Skin Sens. 1B: H317 - May cause an allergic skin reaction
- STOT SE 3: H336 - May cause drowsiness or dizziness

Classification procedure:

** Changes with regards to the previous version

D-EASY ORANGE & LEMON

SECTION 16: OTHER INFORMATION ** (continued)

Skin Sens. 1B: Calculation method
Skin Irrit. 2: Calculation method
Eye Dam. 1: Calculation method
Repr. 1B: Calculation method
Aquatic Chronic 2: Calculation method
STOT SE 3: Calculation method
Flam. Liq. 2: Calculation method (2.6.4.3)

Advice related to training:

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>
<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon

*** Changes with regards to the previous version*

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -