

CRANBERRY CRUSH FO-0042

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : CRANBERRY CRUSH FO-0042
UFI :TA5P-S17N-H003-XVG8
Product code : FO-0042
Type of product : Perfumes, Fragrances
Product group : Finished Good

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Industrial use
Industrial/Professional use spec : For professional use
Use of the substance/mixture only : Perfumes,
Function or use category : Fragrances
: Odour agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Fragrance Orchard

Neutrino,
Albert Road,
Essex CM7 3JQ GB
- United Kingdom

1.4. Emergency telephone number

Emergency number : +44 1376 555185

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral) H302
Category 4
Skin sensitization, Category H317
1
Hazardous to the aquatic H411
environment - Chronic
Hazard Category 2

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008

[CLP] Hazard pictograms (CLP)



GHS07

GHS09

Signal word (CLP) : Warning

Hazardous ingredients : Benzyl benzoate; Lemon oil ; Amyl cinnamic aldehyde; Linalool; Isocyclocitral; Damascone Beta; delta-Damascone; Damascone alpha- (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten- 1-one (24720-09-0); Neryl acetate; Coumarin crystals; Geraniol; Methyl isoeugenol; Aldehyde C-16

Hazard statements (CLP) : H302 - Harmful if swallowed

Precautionary statements (CLP)	H317 - May cause an allergic skin reaction H411 - Toxic to aquatic life with long lasting effects : P264 - Wash hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear eye protection, protective clothing, protective gloves.
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2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Benzyl benzoate	(CAS-No.) 120-51-4 (EC-No.) 204-402-9 (EC Index-No.) 607-085-00-9 (REACH-no) 01-2119976371-33	39.15 - 59.15	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411
Aldehyde C-16	(CAS-No.) 77-83-8 (EC-No.) 201-061-8 (REACH-no) 01-2119967770-28	7.5 - 15	Aquatic Chronic 2, H411 Skin Sens. 1B, H317
methyl anthranilate	(CAS-No.) 134-20-3 (EC-No.) 205-132-4	1.25 - 2.5	Eye Irrit. 2, H319
Aldehyde C-14	(CAS-No.) 104-67-6 (EC-No.) 203-225-4 (REACH-no) 01-2119959333-34	1.2 - 2.4	Aquatic Chronic 3, H412
Lemon oil	(CAS-No.) 8008-56-8 (EC-No.) 284-515-8;616-925-3	1 - 2	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
beta-Ionone	(CAS-No.) 14901-07-6 (EC-No.) 238-969-9	1 - 2	Aquatic Chronic 2, H411
alpha-Ionone	(CAS-No.) 127-41-3 (EC-No.) 204-841-6 (REACH-no) 01-2119965149-27	0.875 - 1.75	Aquatic Chronic 3, H412
Benzyl acetate	(CAS-No.) 140-11-4 (EC-No.) 205-399-7 (REACH-no) 01-2119638272-42	0.6 - 1.2	Aquatic Chronic 3, H412
Verdorex	(CAS-No.) 88-41-5 (EC-No.) 201-828-7 (REACH-no) 01-2119970713-33	0.5 - 1	Aquatic Chronic 2, H411
Ethyl caproate	(CAS-No.) 123-66-0 (EC-No.) 204-640-3	0.5 - 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315
Benzene carboxaldehyde	(CAS-No.) 100-52-7 (EC-No.) 202-860-4 (EC Index-No.) 605-012-00-5 (REACH-no) 01-2119455540-44	0.5 - 1	Acute Tox. 4 (Oral), H302
Oxypheylon (Raspberry ketone) crystals	(CAS-No.) 5471-51-2 (EC-No.) 226-806-4	0.5 - 1	Acute Tox. 4 (Oral), H302
Amyl cinnamic aldehyde	(CAS-No.) 122-40-7 (EC-No.) 204-541-5;453-530-3	0.25 - 0.5	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Methyl isoeugenol	(CAS-No.) 93-16-3 (EC-No.) 202-224-6	0.25 - 0.5	Skin Sens. 1B, H317
Linalool	(CAS-No.) 78-70-6 (EC-No.) 201-134-4 (EC Index-No.) 603-235-00-2 (REACH-no) 01-2119474016-42	0.15 - 0.3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Hexyl benzoate	(CAS-No.) 6789-88-4 (EC-No.) 229-856-5	0.1 - 0.2	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Isoamyl acetate substance with a Community workplace exposure limit	(CAS-No.) 123-92-2 (EC-No.) 204-662-3 (EC Index-No.) 607-130-00-2	0.1 - 0.2	Flam. Liq. 3, H226
Ethyl acetate substance with a Community workplace exposure limit	(CAS-No.) 141-78-6 (EC-No.) 205-500-4 (EC Index-No.) 607-022-00-5 (REACH-no) 01-2119475103-46	0.1 - 0.2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Coumarin crystals	(CAS-No.) 91-64-5 (EC-No.) 202-086-7 (REACH-no) 01-2119943756-26	0.1 - 0.2	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Geraniol	(CAS-No.) 106-24-1 (EC-No.) 203-377-1	0.1 - 0.2	Eye Dam. 1, H318 Skin Irrit. 2, H315 Skin Sens. 1, H317
Isocyclocitral	(CAS-No.) 1335-66-6 (EC-No.) 215-638-7	0.05 - 0.1	Eye Irrit. 2, H319 Aquatic Chronic 3, H412 Skin Irrit. 2, H315 Skin Sens. 1B, H317
Damascone Beta	(CAS-No.) 23726-92-3 (EC-No.) 245-843-7	0.05 - 0.1	Aquatic Chronic 2, H411 Skin Sens. 1B, H317
delta-Damascone	(CAS-No.) 57378-68-4 (EC-No.) 260-709-8	0.05 - 0.1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Chronic 1, H410
Damascone alpha- (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)- 2-buten-1-one (24720-09-0)	(CAS-No.) 24720-09-0 (EC-No.) 246-430-4	0.05 - 0.1	Acute Tox. 4 (Oral), H302 Aquatic Chronic 2, H411 Skin Sens. 1B, H317
Allyl heptanoate	(CAS-No.) 142-19-8 (EC-No.) 205-527-1 (REACH-no) 01-2119488961-23	0.05 - 0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Neryl acetate	(CAS-No.) 141-12-8 (EC-No.) 205-459-2	0.05 - 0.1	Skin Irrit. 2, H315 Skin Sens. 1B, H317

Allergen report available upon request.

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a poison center/doctor/physician if you feel unwell.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact

: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell. Call a poison center/doctor/physician if you feel unwell.

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

Symptoms/effects after inhalation : May cause an allergic skin reaction.

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media : Sand. : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes.
Avoid breathing dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/ personal protection".

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from
: Keep container

Incompatible products : closed when not in use. Store in a well-ventilated place. Keep cool.

Incompatible materials : Strong bases. Strong acids.

Storage temperature : Sources of ignition. Direct sunlight.

Storage area : 25 °C

Special rules on packaging : Store in a well-ventilated place. Store away from heat.

Packaging materials : Store in a closed container.

7.3. Specific end use(s) : Do not store in corrodable metal.

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Isoamyl acetate (123-92-2)		
EU	IOELV TWA (mg/m ³)	270 mg/m ³
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m ³)	540 mg/m ³
EU	IOELV STEL (ppm)	100 ppm
Austria	MAK (mg/m ³)	270 mg/m ³ (Pentyl acetate (all isomers))
Austria	MAK (ppm)	50 ppm (Pentyl acetate (all isomers))
Austria	MAK Short time value (mg/m ³)	540 mg/m ³ (Pentylacetate)
Austria	MAK Short time value (ppm)	100 ppm (Pentylacetate)
Belgium	Limit value (mg/m ³)	270 mg/m ³
Belgium	Limit value (ppm)	50 ppm
Belgium	Short time value (mg/m ³)	540 mg/m ³
Belgium	Short time value (ppm)	100 ppm
Bulgaria	OEL TWA (mg/m ³)	270 mg/m ³
Bulgaria	OEL TWA (ppm)	50 ppm
Bulgaria	OEL STEL (mg/m ³)	540 mg/m ³

Isoamyl acetate (123-92-2)		
Bulgaria	OEL STEL (ppm)	100 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	270 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	540 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	100 ppm
Cyprus	OEL TWA (mg/m ³)	270 mg/m ³
Cyprus	OEL TWA (ppm)	50 ppm
Cyprus	OEL STEL (mg/m ³)	540 mg/m ³
Cyprus	OEL STEL (ppm)	100 ppm
Denmark	Limit (long-term) (mg/m ³)	271 mg/m ³ (Amyl acetate, all isomers)
Denmark	Limit (long-term) (ppm)	50 ppm (Amyl acetate, all isomers)
Estonia	OEL TWA (mg/m ³)	270 mg/m ³
Estonia	OEL TWA (ppm)	50 ppm
Estonia	OEL STEL (mg/m ³)	540 mg/m ³
Estonia	OEL STEL (ppm)	100 ppm
Finland	HTP-arvo (8h) (mg/m ³)	270 mg/m ³ (Pentyl acetate)
Finland	HTP-arvo (8h) (ppm)	50 ppm (Pentyl acetate)
Finland	HTP-arvo (15 min)	540 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	100 ppm
France	VME (mg/m ³)	270 mg/m ³ (restrictive limit)
France	VME (ppm)	50 ppm (restrictive limit)
France	VLE (mg/m ³)	540 mg/m ³ (restrictive limit)
France	VLE (ppm)	100 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	270 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	50 ppm
Gibraltar	Eight hours mg/m ³	270 mg/m ³
Gibraltar	Eight hours ppm	50 ppm
Gibraltar	Short-term mg/m ³	540 mg/m ³
Gibraltar	Short-term ppm	100 ppm
Greece	OEL TWA (mg/m ³)	530 mg/m ³
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m ³)	800 mg/m ³
Greece	OEL STEL (ppm)	150 ppm
Hungary	Exposure Limit Value	270 mg/m ³
Hungary	CK-érték	540 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	260 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m ³)	520 mg/m ³
Ireland	OEL (15 min ref) (ppm)	100 ppm
Italy	OEL TWA (mg/m ³)	270 mg/m ³
Italy	OEL TWA (ppm)	50 ppm
Italy	OEL STEL (mg/m ³)	540 mg/m ³
Italy	OEL STEL (ppm)	100 ppm
Latvia	OEL TWA (mg/m ³)	270 mg/m ³
Latvia	OEL TWA (ppm)	50 ppm
Lithuania	IPRV (mg/m ³)	270 mg/m ³
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m ³)	540 mg/m ³
Lithuania	TPRV (ppm)	100 ppm
Luxembourg	OEL TWA (mg/m ³)	270 mg/m ³

Isoamyl acetate (123-92-2)		
Luxembourg	OEL TWA (ppm)	50 ppm
Luxembourg	OEL STEL (mg/m ³)	540 mg/m ³
Luxembourg	OEL STEL (ppm)	100 ppm
Malta	OEL TWA (mg/m ³)	270 mg/m ³
Malta	OEL TWA (ppm)	50 ppm
Malta	OEL STEL (mg/m ³)	540 mg/m ³
Malta	OEL STEL (ppm)	100 ppm
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	530 mg/m ³
Poland	NDS (mg/m ³)	250 mg/m ³
Poland	NDSch (mg/m ³)	500 mg/m ³
Portugal	OEL TWA (mg/m ³)	270 mg/m ³ (indicative limit value)
Portugal	OEL TWA (ppm)	50 ppm (indicative limit value)
Portugal	OEL STEL (mg/m ³)	540 mg/m ³ (indicative limit value)
Portugal	OEL STEL (ppm)	100 ppm (indicative limit value, regulated under Pentyl acetate, all isomers)
Romania	OEL TWA (mg/m ³)	270 mg/m ³
Romania	OEL TWA (ppm)	50 ppm
Romania	OEL STEL (mg/m ³)	540 mg/m ³
Romania	OEL STEL (ppm)	100 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	270 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	540 mg/m ³
Slovenia	OEL TWA (mg/m ³)	270 mg/m ³
Slovenia	OEL TWA (ppm)	50 ppm
Slovenia	OEL STEL (mg/m ³)	540 mg/m ³
Slovenia	OEL STEL (ppm)	100 ppm
Spain	VLA-ED (mg/m ³)	270 mg/m ³ (indicative limit value)
Spain	VLA-ED (ppm)	50 ppm (indicative limit value)
Spain	VLA-EC (mg/m ³)	540 mg/m ³
Spain	VLA-EC (ppm)	100 ppm
Sweden	nivågränsvärde (NVG) (mg/m ³)	270 mg/m ³ (Pentyl acetates)
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm (Pentyl acetates)
Sweden	kortidsvärde (KTV) (mg/m ³)	540 mg/m ³ (Pentyl acetates)
Sweden	kortidsvärde (KTV) (ppm)	100 ppm (Pentyl acetates)
Norway	TWA (AN) (mg/m ³)	260 mg/m ³
Norway	TWA (AN) (ppm)	50 ppm
Norway	TWA (Kortidsverdi) (mg/m ³)	325 mg/m ³ (value calculated)
Norway	TWA (Kortidsverdi) (ppm)	75 ppm (value calculated)
Australia	TWA (mg/m ³)	270 mg/m ³
Australia	TWA (ppm)	50 ppm
Australia	STEL (mg/m ³)	541 mg/m ³
Australia	STEL (ppm)	100 ppm
Canada (Quebec)	VECD (mg/m ³)	532 mg/m ³ (Pentyl acetates)
Canada (Quebec)	VECD (ppm)	100 ppm (Pentyl acetates)
Canada (Quebec)	VEMP (mg/m ³)	266 mg/m ³ (Pentyl acetates)
Canada (Quebec)	VEMP (ppm)	50 ppm (Pentyl acetates)
USA - ACGIH	ACGIH TWA (ppm)	50 ppm (Pentyl acetate, all isomers)
USA - ACGIH	ACGIH STEL (ppm)	100 ppm (Pentyl acetate, all isomers)
USA - IDLH	US IDLH (ppm)	1000 ppm
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	525 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	525 mg/m ³

Isoamyl acetate (123-92-2)		
USA - OSHA	OSHA PEL (TWA) (ppm)	100 ppm
Ethyl acetate (141-78-6)		
EU	IOELV TWA (mg/m ³)	734 mg/m ³
EU	IOELV TWA (ppm)	200 ppm
EU	IOELV STEL (mg/m ³)	1468 mg/m ³
EU	IOELV STEL (ppm)	400 ppm
Austria	MAK (mg/m ³)	734 mg/m ³
Austria	MAK (ppm)	200 ppm
Austria	MAK Short time value (mg/m ³)	1468 mg/m ³
Austria	MAK Short time value (ppm)	400 ppm
Belgium	Limit value (mg/m ³)	734 mg/m ³
Belgium	Limit value (ppm)	200 ppm
Belgium	Short time value (mg/m ³)	1468 mg/m ³
Belgium	Short time value (ppm)	400 ppm
Bulgaria	OEL TWA (mg/m ³)	734 mg/m ³
Bulgaria	OEL TWA (ppm)	200 ppm
Bulgaria	OEL STEL (mg/m ³)	1468 mg/m ³
Bulgaria	OEL STEL (ppm)	400 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	734 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	200 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	1468 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	400 ppm
Cyprus	OEL TWA (mg/m ³)	734 mg/m ³
Cyprus	OEL TWA (ppm)	200 ppm
Cyprus	OEL STEL (mg/m ³)	1468 mg/m ³
Cyprus	OEL STEL (ppm)	400 ppm
Czech Republic	Exposure limits (PEL) (mg/m ³)	700 mg/m ³
Denmark	Limit (long-term) (mg/m ³)	540 mg/m ³
Denmark	Limit (long-term) (ppm)	150 ppm
Estonia	OEL TWA (mg/m ³)	500 mg/m ³
Estonia	OEL TWA (ppm)	150 ppm
Estonia	OEL STEL (mg/m ³)	1100 mg/m ³
Estonia	OEL STEL (ppm)	300 ppm
Finland	HTP-arvo (8h) (mg/m ³)	730 mg/m ³
Finland	HTP-arvo (8h) (ppm)	200 ppm
Finland	HTP-arvo (15 min)	1470 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	400 ppm
France	VME (mg/m ³)	1400 mg/m ³
France	VME (ppm)	400 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	730 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar	Eight hours mg/m ³	200 mg/m ³
Gibraltar	Eight hours ppm	734 ppm
Gibraltar	Short-term mg/m ³	400 mg/m ³
Gibraltar	Short-term ppm	1468 ppm
Greece	OEL TWA (mg/m ³)	734 mg/m ³
Greece	OEL TWA (ppm)	200 ppm
Greece	OEL STEL (mg/m ³)	1468 mg/m ³
Greece	OEL STEL (ppm)	400 ppm
Hungary	Exposure Limit Value	734 mg/m ³

Ethyl acetate (141-78-6)		
Hungary	CK-érték	1468 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	734 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (mg/m ³)	1468 mg/m ³
Ireland	OEL (15 min ref) (ppm)	400 ppm
Latvia	OEL TWA (mg/m ³)	200 mg/m ³
Latvia	OEL TWA (ppm)	54 ppm
Lithuania	IPRV (mg/m ³)	500 mg/m ³
Lithuania	IPRV (ppm)	150 ppm
Lithuania	NRV (mg/m ³)	1100 mg/m ³
Lithuania	NRV (ppm)	300 ppm
Luxembourg	OEL STEL (mg/m ³)	1468 mg/m ³
Luxembourg	OEL STEL (ppm)	400 ppm
Malta	OEL TWA (mg/m ³)	734 mg/m ³
Malta	OEL TWA (ppm)	200 ppm
Malta	OEL STEL (mg/m ³)	1468 mg/m ³
Malta	OEL STEL (ppm)	400 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	734 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	1468 mg/m ³
Poland	NDS (mg/m ³)	734 mg/m ³
Poland	NDSch (mg/m ³)	1468 mg/m ³
Portugal	OEL TWA (ppm)	400 ppm
Romania	OEL TWA (mg/m ³)	400 mg/m ³
Romania	OEL TWA (ppm)	111 ppm
Romania	OEL STEL (mg/m ³)	500 mg/m ³
Romania	OEL STEL (ppm)	139 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	734 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	200 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	1100 mg/m ³
Slovenia	OEL TWA (mg/m ³)	734 mg/m ³
Slovenia	OEL TWA (ppm)	200 ppm
Slovenia	OEL STEL (mg/m ³)	1468 mg/m ³
Slovenia	OEL STEL (ppm)	400 ppm
Spain	VLA-ED (mg/m ³)	734 mg/m ³
Spain	VLA-ED (ppm)	200 ppm
Spain	VLA-EC (mg/m ³)	1468 mg/m ³
Spain	VLA-EC (ppm)	400 ppm
Sweden	nivågränsvärde (NVG) (mg/m ³)	500 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	150 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	1100 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	300 ppm
United Kingdom	WEL TWA (mg/m ³)	734 mg/m ³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m ³)	1468 mg/m ³
United Kingdom	WEL STEL (ppm)	400 ppm
Norway	TWA (AN) (mg/m ³)	734 mg/m ³
Norway	TWA (AN) (ppm)	200 ppm
Norway	TWA (Kortidsverdi) (mg/m ³)	917.5 mg/m ³ (value calculated)
Norway	TWA (Kortidsverdi) (ppm)	250 ppm (value calculated)
Switzerland	MAK (mg/m ³)	730 mg/m ³
Switzerland	MAK (ppm)	200 ppm

Ethyl acetate (141-78-6)		
Switzerland	KZGW (mg/m ³)	1460 mg/m ³
Switzerland	KZGW (ppm)	400 ppm
Australia	TWA (mg/m ³)	720 mg/m ³
Australia	TWA (ppm)	200 ppm
Australia	STEL (mg/m ³)	1440 mg/m ³
Australia	STEL (ppm)	400 ppm
Canada (Quebec)	VEMP (mg/m ³)	1440 mg/m ³
Canada (Quebec)	VEMP (ppm)	400 ppm
USA - ACGIH	ACGIH TWA (ppm)	400 ppm
USA - IDLH	US IDLH (ppm)	2000 ppm (10% LEL)
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	1400 mg/m ³
USA - NIOSH	NIOSH REL (TWA) (ppm)	400 ppm
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	1400 mg/m ³
USA - OSHA	OSHA PEL (TWA) (ppm)	400 ppm
Benzene carboxaldehyde (100-52-7)		
Bulgaria	OEL TWA (mg/m ³)	5 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	4.4 mg/m ³
Finland	HTP-arvo (8h) (ppm)	1 ppm
Finland	OEL Ceiling (mg/m ³)	17.4 mg/m ³
Finland	OEL Ceiling (ppm)	4 ppm
Hungary	Exposure Limit Value	5 mg/m ³
Hungary	CK-érték	10 mg/m ³
Latvia	OEL TWA (mg/m ³)	5 mg/m ³
Lithuania	IPRV (mg/m ³)	5 mg/m ³
Poland	NDS (mg/m ³)	10 mg/m ³
Poland	NDSch (mg/m ³)	40 mg/m ³
Benzyl acetate (140-11-4)		
Belgium	Limit value (mg/m ³)	62 mg/m ³
Belgium	Limit value (ppm)	10 ppm
Denmark	Limit (long-term) (mg/m ³)	61 mg/m ³
Denmark	Limit (long-term) (ppm)	10 ppm
Ireland	OEL (8 hours ref) (ppm)	10 ppm
Ireland	OEL (15 min ref) (ppm)	30 ppm (calculated)
Latvia	OEL TWA (mg/m ³)	5 mg/m ³
Lithuania	IPRV (mg/m ³)	5 mg/m ³
Portugal	OEL TWA (ppm)	10 ppm
Romania	OEL TWA (mg/m ³)	50 mg/m ³
Romania	OEL TWA (ppm)	8 ppm
Romania	OEL STEL (mg/m ³)	80 mg/m ³
Romania	OEL STEL (ppm)	13 ppm
Spain	VLA-ED (mg/m ³)	62 mg/m ³
Spain	VLA-ED (ppm)	10 ppm
USA - ACGIH	ACGIH TWA (ppm)	10 ppm
Benzyl benzoate (120-51-4)		
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	<=

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses. Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear appropriate mask
Environmental exposure	: Avoid release to the environment.
controls Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Yellow. light yellow. amber.
Odor	: Fruity.
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 81.8 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: ≈ 1.09
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

ATE CLP (oral)	801.079 mg/kg body weight
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Skin corrosion/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met : Not classified
Serious eye damage/irritation	: Not classified
Additional information	: Based on available data, the classification criteria are not met : May cause an allergic skin reaction.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Based on available data, the classification criteria are not met : Not classified
Carcinogenicity	: Based on available data, the classification criteria are not met
Additional information	: Not classified
Reproductive toxicity	: Based on available data, the classification criteria are not met : Not classified
Additional information	: Based on available data, the classification criteria are not met
Specific target organ toxicity – single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Specific target organ toxicity – repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general Ecology	: Toxic to aquatic life with long lasting effects.
- water	: Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

CRANBERRY CRUSH FO-0042	
Persistence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

CRANBERRY CRUSH FO-0042	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information	: Avoid release to the environment.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions. :
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with local/national laws and regulations.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: 3082
UN-No. (IMDG)	: 3082
UN-No. (IATA)	: 3082
UN-No. (ADN)	: 3082
UN-No. (RID)	: Not applicable

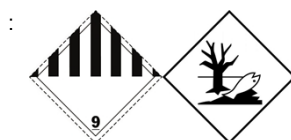
14.2. UN proper shipping name

Proper Shipping Name (ADR)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
Proper Shipping Name (ADN)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (RID)	: Not applicable
Transport document description (ADR)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene), 9, III, (E)
Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (d-Limonene), 9, III, MARINE POLLUTANT
Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (d-Limonene), 9, III
Transport document description (ADN)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es)	: 9
(ADR) Hazard labels (ADR)	: 9



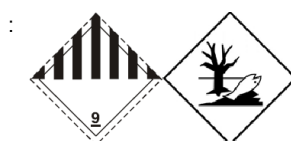
IMDG

Transport hazard class(es)	: 9
(IMDG) Hazard labels (IMDG)	: 9



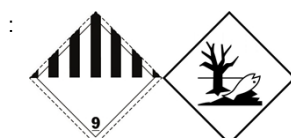
IATA

Transport hazard class(es)	: 9
(IATA) Hazard labels (IATA)	: 9



ADN

Transport hazard class(es)	: 9
(ADN) Hazard labels (ADN)	: 9



RID

Transport hazard class(es) (RID)	: Not applicable
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14.4. Packing group

Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III

Packing group (ADN)	: III
Packing group (RID)	: Not applicable

14.5. Environmental hazards

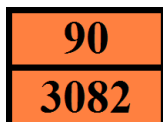
Dangerous for the	: Yes
environment Marine pollutant	: Yes
Other information	: No supplementary information available

14.6. Special precautions for user - Overland transport

Classification code (ADR)	: M6
Special provision (ADR)	: 274, 335, 601
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01,
Special packing provisions (ADR)	R001 : PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29

Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13

Hazard identification number (Kemler No.)	: 90
Orange plates	:



Tunnel restriction code (ADR)	: E
EAC	: •3Z

- Transport by sea

Special provision (IMDG)	: 274, 335
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
Packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP2, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A

- Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provision (IATA)	: A97, A158
ERG code (IATA)	: 9L

- Inland waterway transport

Classification code (ADN) Special : M6
provision (ADN) : 274, 335, 61
Limited quantities (ADN) Excepted : 5 L
quantities (ADN) Carriage : E1
permitted (ADN) Equipment : T
required (ADN) Number of blue : PP
cones/lights (ADN) : 0

- Rail transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Lemon oil ; Ethyl caproate ; Isoamyl acetate ; Ethyl acetate
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	CRANBERRY CRUSH FO-0042 ; Benzyl benzoate ; methyl anthranilate ; Lemon oil ; Ethyl caproate ; Amyl cinnamic aldehyde ; Linalool ; Isocyclocitral ; Damascone Beta ; delta-Damascone ; Damascone alpha- (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0) ; Allyl heptanoate ; Neryl acetate ; Ethyl acetate ; Geraniol ; Methyl isoeugenol ; Benzene carboxaldehyde ; Aldehyde C-16
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	CRANBERRY CRUSH FO-0042 ; Benzyl benzoate ; Lemon oil ; alpha-Ionone ; Verdox ; Amyl cinnamic aldehyde ; Hexyl benzoate ; Isocyclocitral ; Damascone Beta ; delta-Damascone ; Damascone alpha- (E)-1-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-2-buten-1-one (24720-09-0) ; Allyl heptanoate ; Benzyl acetate ; beta-Ionone ; Aldehyde C-14 ; Aldehyde C-16
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Lemon oil ; Ethyl caproate ; Isoamyl acetate ; Ethyl acetate

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 2, significant hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Lemon oil is listed
SZW-lijst van mutagene stoffen : Lemon oil is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Class for fire hazard	: Class III-1
Store unit	: 50 liter
Classification remarks	: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
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Other information	: None.
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Full text of H- and EUH-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, category 1A
Skin Sens. 1B	Skin sensitization, category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H336	May cause drowsiness or dizziness
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

FCF SDS EU CLP.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.