

1733205

	Printing date: 19.1
CTION 01: Identif	cation of the substance/mixture and of the company/undertaking
1.1 Product identifier	
Trade name:	
Rosemary oilArticle number:	
A1150	
 CAS Number: 8000-25-7 	
• EC Number:	
283-291-9 • No CAS EINECS:	
84604-14-8	
 Registration numb 01-2120086955-39-0 	
	ed uses of the substance or mixture and uses advised against postance / the preparation
Perfume ingredient	
Flavouring agent Only for industrial use	
Only for industrial use	
1.3 Details of the sup Manufacturer/Supplie	oplier of the safety data sheet
BIOLANDES, BP2	TEL: +33(0)5.58.51.00.00
2760 Route de Bélis 40420 LE SEN	email: fds@biolandes.com
FRANCE	
1.4 Emergency telep	none number:
1.4 Emergency telep FR-ORFILA (INRS):+33(
FR-ORFILA (INRS):+33((0)1 45 42 59 59
FR-ORFILA (INRS):+33((0)1 45 42 59 59 s identification
FR-ORFILA (INRS):+33(ECTION 02: Hazard 2.1 Classification of t	(0)1 45 42 59 59 s identification he substance or mixture
FR-ORFILA (INRS):+33(ECTION 02: Hazard 2.1 Classification of t	(0)1 45 42 59 59 s identification
ECTION 02: Hazard 2.1 Classification of t • Classification accord	(0)1 45 42 59 59 s identification he substance or mixture
FR-ORFILA (INRS):+33(ECTION 02: Hazard 2.1 Classification of t	(0)1 45 42 59 59 s identification he substance or mixture
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t • Classification accord GHS08 STOT SE 2 - H371 Ma	(0)1 45 42 59 59 s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs.
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t • Classification accord GHS08 STOT SE 2 - H371 Ma	s identification he substance or mixture rding to Regulation (EC) No 1272/2008
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t • Classification accord GHS08 STOT SE 2 - H371 Ma Asp. Tox. 1 - H304 M	(0)1 45 42 59 59 s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs.
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t • Classification accord GHS08 STOT SE 2 - H371 Ma	(0)1 45 42 59 59 s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs.
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t • Classification accord GHS08 STOT SE 2 - H371 Ma Asp. Tox. 1 - H304 M GHS02	s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs. ay be fatal if swallowed and enters airways.
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t • Classification accord GHS08 STOT SE 2 - H371 Ma Asp. Tox. 1 - H304 M GHS02	(0)1 45 42 59 59 s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs.
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t • Classification accord GHS08 STOT SE 2 - H371 Ma Asp. Tox. 1 - H304 M GHS02	s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs. ay be fatal if swallowed and enters airways.
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t Classification accord GHS08 STOT SE 2 - H371 Ma Asp. Tox. 1 - H304 M GHS02 Flam. Liq. 3 - H226 F	s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs. ay be fatal if swallowed and enters airways.
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t • Classification accord GHS08 STOT SE 2 - H371 Ma Asp. Tox. 1 - H304 M GHS02 Flam. Liq. 3 - H226 F GHS07 Skin Irrit. 2 - H315 C	(0)1 45 42 59 59 s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs. ay be fatal if swallowed and enters airways. "lammable liquid and vapour. causes skin irritation.
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t • Classification accord GHS08 STOT SE 2 - H371 Ma Asp. Tox. 1 - H304 M GHS02 Flam. Liq. 3 - H226 F GHS07 Skin Irrit. 2 - H315 C Eye Irrit. 2 - H319 Ca	(0)1 45 42 59 59 s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs. ay be fatal if swallowed and enters airways. ilammable liquid and vapour. auses skin irritation. auses serious eye irritation.
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t • Classification accord GHS08 STOT SE 2 - H371 Ma Asp. Tox. 1 - H304 M GHS02 Flam. Liq. 3 - H226 F GHS07 Skin Irrit. 2 - H315 C Eye Irrit. 2 - H319 Ca	(0)1 45 42 59 59 s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs. ay be fatal if swallowed and enters airways. "lammable liquid and vapour. causes skin irritation.
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t • Classification accord GHS08 STOT SE 2 - H371 Ma Asp. Tox. 1 - H304 M GHS02 Flam. Liq. 3 - H226 F GHS07 Skin Irrit. 2 - H315 C Eye Irrit. 2 - H319 Ca	(0)1 45 42 59 59 s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs. ay be fatal if swallowed and enters airways. ilammable liquid and vapour. auses skin irritation. auses serious eye irritation.
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t • Classification accord GHS08 STOT SE 2 - H371 Ma Asp. Tox. 1 - H304 M GHS02 Flam. Liq. 3 - H226 F GHS07 Skin Irrit. 2 - H315 C Eye Irrit. 2 - H319 Ca Skin Sens. 1B - H317 V	(0)1 45 42 59 59 s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs. ay be fatal if swallowed and enters airways. ilammable liquid and vapour. auses skin irritation. auses serious eye irritation.
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t Classification accord GHS08 STOT SE 2 - H371 Ma Asp. Tox. 1 - H304 M GHS02 Flam. Liq. 3 - H226 F GHS07 Skin Irrit. 2 - H315 C Eye Irrit. 2 - H315 C Eye Irrit. 2 - H319 Ca Skin Sens. 1B - H317 GHS09 Aquatic Chronic 2 - H	(0)1 45 42 59 59 s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs. ay be fatal if swallowed and enters airways. ilammable liquid and vapour. auses skin irritation. auses serious eye irritation.
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t Classification accord GHS08 STOT SE 2 - H371 Ma Asp. Tox. 1 - H304 M GHS02 Flam. Liq. 3 - H226 F GHS07 Skin Irrit. 2 - H315 C Eye Irrit. 2 - H319 Ca Skin Sens. 1B - H317 GHS09	(0)1 45 42 59 59 s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs. ay be fatal if swallowed and enters airways. dammable liquid and vapour. auses skin irritation. auses serious eye irritation. ' May cause an allergic skin reaction.
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t Classification accord GHS08 STOT SE 2 - H371 Ma Asp. Tox. 1 - H304 M GHS02 Flam. Liq. 3 - H226 F GHS07 Skin Irrit. 2 - H315 C Eye Irrit. 2 - H319 Ca Skin Sens. 1B - H317 GHS09 Aquatic Chronic 2 - H effects. 2.2 Label elements	(0)1 45 42 59 59 s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs. ay be fatal if swallowed and enters airways. ay be fatal if swallowed and enters airways. auses skin irritation. auses skin irritation. auses serious eye irritation. ' May cause an allergic skin reaction. 411 Toxic to aquatic life with long lasting
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t Classification accord GHS08 STOT SE 2 - H371 Ma Asp. Tox. 1 - H304 M GHS02 Flam. Liq. 3 - H226 F GHS07 Skin Irrit. 2 - H315 C Eye Irrit. 2 - H319 Ca Skin Sens. 1B - H317 GHS09 Aquatic Chronic 2 - H effects. 2.2 Label elements Labelling according	(0)1 45 42 59 59 s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs. ay be fatal if swallowed and enters airways. auses skin irritation. auses skin irritation. auses serious eye irritation. May cause an allergic skin reaction. H11 Toxic to aquatic life with long lasting g to Regulation (EC) No 1272/2008
FR-ORFILA (INRS):+33(CTION 02: Hazard 2.1 Classification of t Classification accord GHS08 STOT SE 2 - H371 Ma Asp. Tox. 1 - H304 M GHS02 Flam. Liq. 3 - H226 F GHS07 Skin Irrit. 2 - H315 C Eye Irrit. 2 - H319 Ca Skin Sens. 1B - H317 GHS09 Aquatic Chronic 2 - H effects. 2.2 Label elements	(0)1 45 42 59 59 s identification he substance or mixture rding to Regulation (EC) No 1272/2008 ay cause damage to organs. ay be fatal if swallowed and enters airways. auses skin irritation. auses skin irritation. auses serious eye irritation. May cause an allergic skin reaction. H11 Toxic to aquatic life with long lasting g to Regulation (EC) No 1272/2008



1733205

Reviewed on: 19.12.2022 Printing date: 19.12.2022

RODUCT: R	losemary oil	
		(continued of page 1
	$\land \land \land$	
	ゆうく! > く光2 >	
	$\overline{}$	
GHS08 GH	IS02 GHS07 GHS09	
- Signal word		
Danger - Hazard state	ments	
H226 Flammat	ble liquid and vapour.	
H304 May be fa H315 Causes s	atal if swallowed and enters airways. kin irritation.	
H317 May caus	se an allergic skin reaction.	
	erious eye irritation. se damage to organs.	
H411 Toxic to	aquatic life with long lasting effects.	
- Precautionar	y statements ay from heat, hot surfaces, sparks, open flames and other ignition	sources. No smoking
P233 Keep con	tainer tightly closed.	sources. No smoking.
	nd bond container and receiving equipment. SWALLOWED: Immediately call a POISON CENTER/ doctor.	
	bre in a well-ventilated place. Keep cool.	
P501 Dispose of	of contents/container in accordance with local/regional/ national/in	nternational regulations.
2.3 Other haza	rds	
	BT and vPvB assessment	
- PBT:		
Not applicable - vPvB:		
Not applicable		
 Determination Substance is n 	on of endocrine-disrupting properties	
3.1 Substances CAS No. 8000-25-7 Rose Identification EC number: 283-291-9	Description emary oil	
• Dangerous c	omponents	
CAS Number		%
470-82-6	Eucalyptol	20,001-50,00
	EC number: 207-431-5	
	🚸 Flam. Liq. 3 - H226; 🚸 Skin Sens.	
	1B - H317	
80-56-8	pin-2(3)-ene	10,001-20,00
	EC number: 201-291-9	
	🚸 Asp. Tox. 1 - H304; 🚸 Flam. Liq. 3	
	- H226; 안 Acute Tox. 4 - H302, Skin	
	Irrit. 2 - H315, Skin Sens. 1B - H317	
76-22-2	1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	10,001-20,00
	EC number: 200-945-0	.,
	🚸 Flam. Sol. 2 - H228; 🚸 Acute Tox.	
	4 - H302, Acute Tox. 4 - H332; 🚸 STOT SE	
	4 - H302, Acute Tox. 4 - H332; STOT SE 2 - H371	
127-91-3	2 - H371	5,001-10 00
127-91-3		5,001-10,00
127-91-3	2 - H371 beta-Pinene	5,001-10,00

(continued on page 3)



1733205

Reviewed on: 19.12.2022

Printing date: 19.12.2022
(continued of page 2)

PRODUCT :	Rosemary oil	
		(continued of page 2)
	- H226; 🔅 Skin Irrit. 2 - H315, Skin	
	Sens. 1B - H317	
87-44-5	beta-Caryophyllene	1,001- 5,00
	EC number: 201-746-1	
	🚸 Asp. Tox. 1 - H304; 🔱 Skin Sens.	
	1B - H317	
5989-27-5	d-limonene	1,001- 5,00
	EC number: 227-813-5	
	🚸 Asp. Tox. 1 - H304; 🚸 Flam. Liq. 3	
	- H226; 🕐 Skin Irrit. 2 - H315, Skin	
	Sens. 1B - H317; 🔅 Aquatic Acute 1 -	
	H400; Aquatic Chronic 3 - H412	
98-55-5	p-menth-1-en-8-ol	1,001- 5,00
	EC number: 202-680-6	
	🔱 Skin Irrit. 2 - H315, Eye Irrit. 2 -	
	H319	
99-87-6	p-cymene	1,001- 5,00
	EC number: 202-796-7	
	Acute Tox. 3 - H331; Asp. Tox. 1	
	- H304; 🚸 Flam. Liq. 3 - H226; 🚸	
	Aquatic Chronic 2 - H411	
123-35-3	Myrcene	1,001- 5,00
	EC number: 204-622-5	
	🚸 Asp. Tox. 1 - H304; 🚸 Flam. Liq. 3	
	- H226; \land Skin Irrit. 2 - H315, Eye	
	Irrit. 2 - H319	
78-70-6	Linalool	1,001- 5,00
	EC number: 201-134-4	
	Skin Irrit. 2 - H315, Eye Irrit. 2 -	
	H319, Skin Sens. 1B - H317	
99-86-5	1-isopropyl-4-methylcyclohexa-1,3-diene EC number: 202-795-1	0,101-1,00
	Schumber: 202-795-1 Asp. Tox. 1 - H304; Flam. Liq. 3	
	- H226; (1) Acute Tox. 4 - H302, Skin	
	Sens. 1 - H317; 论 Aquatic Chronic 2 -	
	H411	
500.00.0	Oral: ATE = 1680 mg/kg	0.404.4.00
586-62-9	Terpinolene EC number: 209-578-0	0,101-1,00
	 Asp. Tox. 1 - H304; Skin Sens. 	
	 ✓ ASP. 103. 1 - 1304, ✓ Skill Sells. 1B - H317; ✓ Aquatic Acute 1 - H400, 	
	Aquatic Chronic 1 - H410	

SECTION 04: First aid measures

4.1 Description of first aid measures

• General information:

Seek immediate medical advice.

• After inhalation: Supply fresh air and to be sure call for a doctor.



1733205

Reviewed on: 19.12.2022 Printing date: 19.12.2022

RODUCT :	Rosemary oil
	(continued of page 3)
 After skin If skin irrit 	contact: ation continues, consult a doctor.
	ly wash with water and soap and rinse thoroughly.
After eye	
 Rinse oper After swa 	ed eye for several minutes under running water. If symptoms persist, consult a doctor.
	idiate medical advice.
	on for doctor:
	portant symptoms and effects, both acute and delayed evant information available.
	on of any immediate medical attention and special treatment needed evant information available.
	Firefighting measures
5	shing media
	extinguishing agents: extinguishing powder. Do not use water.
Use fire ex	tinguishing methods suitable to surrounding conditions.
 For safety 	reasons unsuitable extinguishing agents:
Water with	full jet
5.2 Special	hazards arising from the substance or mixture
	coxic gases is possible during heating or in case of fire.
E 2 Advice f	or firefighters
	or firefighters e equipment:
Do not inh	ale explosion gases or combustion gases.
 Additiona 	l information
Cool endar	gered receptacles with water spray.
	gered receptacles with water spray.
ECTION 06:	agered receptacles with water spray. Accidental release measures
ECTION 06: 6.1 Persona	Accidental release measures
ECTION 06: 6.1 Persona Wear protecti	Accidental release measures Precautions, protective equipment and emergency procedures ve equipment. Keep unprotected persons away.
ECTION 06: 6.1 Persona Wear protecti Ensure adequ	Accidental release measures
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro	Accidental release measures Accidental release measures I precautions, protective equipment and emergency procedures ve equipment. Keep unprotected persons away. ate ventilation om ignition sources.
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro 6.2 Environ	Accidental release measures Accidental release measures I precautions, protective equipment and emergency procedures ve equipment. Keep unprotected persons away. ate ventilation om ignition sources. mental precautions:
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro 6.2 Environi Do not allow	Accidental release measures Accidental release measures I precautions, protective equipment and emergency procedures ve equipment. Keep unprotected persons away. ate ventilation om ignition sources.
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro 6.2 Environi Do not allow Inform respec	Accidental release measures Accidental release measures I precautions, protective equipment and emergency procedures ve equipment. Keep unprotected persons away. ate ventilation om ignition sources. mental precautions: product to reach sewage system or any water course. tive authorities in case of seepage into water course or sewage system.
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro 6.2 Environi Do not allow Inform respect 6.3 Methods	Accidental release measures Accidental release measures I precautions, protective equipment and emergency procedures we equipment. Keep unprotected persons away. ate ventilation am ignition sources. mental precautions: product to reach sewage system or any water course. tive authorities in case of seepage into water course or sewage system. and material for containment and cleaning up:
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro 6.2 Environi Do not allow Inform respect 6.3 Methods Dispose conta	Accidental release measures Accidental release measures I precautions, protective equipment and emergency procedures ve equipment. Keep unprotected persons away. ate ventilation om ignition sources. mental precautions: product to reach sewage system or any water course. tive authorities in case of seepage into water course or sewage system.
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro 6.2 Environi Do not allow Inform respect 6.3 Methods Dispose conta Ensure adequ	Accidental release measures Accidental release measures I precautions, protective equipment and emergency procedures ve equipment. Keep unprotected persons away. ate ventilation im ignition sources. mental precautions: product to reach sewage system or any water course. tive authorities in case of seepage into water course or sewage system. and material for containment and cleaning up: minated material as waste according to item 13. ate ventilation.
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro 6.2 Environi Do not allow Inform respec 6.3 Methods Dispose conta Ensure adequ 6.4 Referen	Accidental release measures Accidental release measures I precautions, protective equipment and emergency procedures ve equipment. Keep unprotected persons away. ate ventilation om ignition sources. mental precautions: product to reach sewage system or any water course. tive authorities in case of seepage into water course or sewage system. ate ventilation ate ventilation c and material for containment and cleaning up: minated material as waste according to item 13. ate ventilation. cc to other sections
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro 6.2 Environi Do not allow Inform respect 6.3 Methods Dispose conta Ensure adequ 6.4 Referen See Section 7 See Section 8	Accidental release measures Accidental release measures I precautions, protective equipment and emergency procedures ve equipment. Keep unprotected persons away. ate ventilation om ignition sources. mental precautions: product to reach sewage system or any water course. tive authorities in case of seepage into water course or sewage system. and material for containment and cleaning up: minated material as waste according to item 13. ate ventilation. ce to other sections for information on safe handling. for information on personal protection equipment.
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro 6.2 Environi Do not allow Inform respect 6.3 Methods Dispose conta Ensure adequ 6.4 Referen See Section 7 See Section 8	Accidental release measures Accidental release measures I precautions, protective equipment and emergency procedures ve equipment. Keep unprotected persons away. ate ventilation om ignition sources. mental precautions: product to reach sewage system or any water course. tive authorities in case of seepage into water course or sewage system. ate ventilation ate ventilation ce to other sections for information on safe handling.
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro 6.2 Environi Do not allow Inform respec 6.3 Methods Dispose conta Ensure adequ 6.4 Referen See Section 7 See Section 1	Accidental release measures Accidental release measures I precautions, protective equipment and emergency procedures we equipment. Keep unprotected persons away. ate ventilation om ignition sources. mental precautions: product to reach sewage system or any water course. tive authorities in case of seepage into water course or sewage system. and material for containment and cleaning up: minated material as waste according to item 13. ate ventilation. ce to other sections for information on personal protection equipment. 3 for disposal information.
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro 6.2 Environi Do not allow Inform respec 6.3 Methods Dispose conta Ensure adequ 6.4 Referen See Section 7 See Section 1	Accidental release measures Accidental release measures I precautions, protective equipment and emergency procedures ve equipment. Keep unprotected persons away. ate ventilation om ignition sources. mental precautions: product to reach sewage system or any water course. tive authorities in case of seepage into water course or sewage system. and material for containment and cleaning up: minated material as waste according to item 13. ate ventilation. ce to other sections for information on safe handling. for information on personal protection equipment.
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro 6.2 Environi Do not allow Inform respect 6.3 Methods Dispose conta Ensure adequ 6.4 Referen See Section 7 See Section 8 See Section 1 ECTION 07: 7.1 Precauti	Accidental release measures Accidental release measures I precautions, protective equipment and emergency procedures we equipment. Keep unprotected persons away. ate ventilation mm ignition sources. mental precautions: product to reach sewage system or any water course. tive authorities in case of seepage into water course or sewage system. and material for containment and cleaning up: minated material as waste according to item 13. ate ventilation. ce to other sections for information on personal protection equipment. 3 for disposal information. Handling and storage ons for safe handling
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro 6.2 Environi Do not allow Inform respec 6.3 Methods Dispose conta Ensure adequ 6.4 Referen See Section 7 See Section 8 See Section 1 ECTION 07: 7.1 Precauti Keep receptad	Accidental release measures Accidental release measures Precautions, protective equipment and emergency procedures we equipment. Keep unprotected persons away. ate ventilation om ignition sources. nental precautions: product to reach sewage system or any water course. tive authorities in case of seepage into water course or sewage system. and material for containment and cleaning up: minated material as waste according to item 13. ate ventilation. ce to other sections for information on personal protection equipment. 3 for disposal information. Handling and storage Ons for safe handling les tightly sealed.
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro 6.2 Environi Do not allow Inform respect 6.3 Methods Dispose conta Ensure adequ 6.4 Referen See Section 7 See Section 8 See Section 1 ECTION 07: 7.1 Precauti Keep receptaa Keep away fro	Accidental release measures Accidental release measures I precautions, protective equipment and emergency procedures we equipment. Keep unprotected persons away. ate ventilation mm ignition sources. mental precautions: product to reach sewage system or any water course. tive authorities in case of seepage into water course or sewage system. and material for containment and cleaning up: minated material as waste according to item 13. ate ventilation. ce to other sections for information on personal protection equipment. 3 for disposal information. Handling and storage ons for safe handling
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro 6.2 Environi Do not allow Inform respect 6.3 Methods Dispose conta Ensure adequ 6.4 Referen See Section 7 See Section 8 See Section 1 ECTION 07: 7.1 Precauti Keep receptad Keep away fro Ensure good y Handle with c	Accidental release measures Accidental release measures I precautions, protective equipment and emergency procedures ve equipment. Keep unprotected persons away. ate ventilation mignition sources. mental precautions: product to reach sewage system or any water course. tive authorities in case of seepage into water course or sewage system. ate ventilation. ate ventilation. ate ventilation. ce to other sections for information on personal protection equipment. 3 for disposal information. Handling and storage ons for safe handling les tightly sealed. m heat and direct sunlight. rentilation/exhaustion at the workplace. are. Avoid jolting, friction and impact.
ECTION 06: 6.1 Persona Wear protecti Ensure adequ Keep away fro 6.2 Environi Do not allow Inform respect 6.3 Methods Dispose conta Ensure adequ 6.4 Referen See Section 7 See Section 8 See Section 1 ECTION 07: 7.1 Precauti Keep receptad Keep away fro Ensure good y Handle with c	Accidental release measures Accidental release measures Accidental release measures Approximation protective equipment and emergency procedures we equipment. Keep unprotected persons away. ate ventilation mi ignition sources. mental precautions: product to reach sewage system or any water course. tive authorities in case of seepage into water course or sewage system. ate ventilation. ate ventilation. ce to other sections for information on safe handling. for information on spersonal protection equipment. A for disposal information. Handling and storage ons for safe handling les tightly sealed. on heat and direct sunlight. rentilation/exhaustion at the workplace.

7.2 Conditions for safe storage, including any incompatibilities

(continued on page 5)



1733205

 Storage: Requirements to be met by storerooms and receptacles: Store only in the original receptacle. Prevent any seepage into the ground. Use only receptacles specifically permitted for this substance/ product. Information about storage in one common storage facility: 	
Store only in the original receptacle. Prevent any seepage into the ground. Use only receptacles specifically permitted for this substance/ product.	
Prevent any seepage into the ground. Use only receptacles specifically permitted for this substance/ product.	
Use only receptacles specifically permitted for this substance/ product.	
 Information about storage in one common storage facility: 	
Not required.Further information about storage conditions:	
Keep container tightly sealed.	
Protect from heat and direct sunlight.	
Store receptacle in a well ventilated area.	
7.3 Specific end use(s)	
No further relevant information available.	
ECTION 08: Exposure controls/personal protection	
8.1 Control parameters	
 Ingredients with limit values that require monitoring at the workplag 	ce'
Not required.	
Additional information:	
The lists valid during the making were used as basis.	
8.2 Exposure controls	
• Individual protection measures, such as personal protective equipm	ent
 General protective and hygienic measures: 	
The usual precautionary measures are to be adhered to when handling chemic Keep away from foodstuffs, beverages and feed.	cals.
Immediately remove all soiled and contaminated clothing	
Wash hands before breaks and at the end of work.	
Avoid contact with the eyes.	
Respiratory protection:	
Use suitable respiratory protective device in case of insufficient ventilation. • Protection of hands:	
Protective gloves	
The glove material has to be impermeable and resistant to the product/ the su	ubstance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for chemical mixture.	or the product/ the preparation/ the
Selection of the glove material on consideration of the penetration times, rate	s of diffusion and the dearadation
Material of gloves	
The selection of the suitable gloves does not only depend on the material, but	also on further marks of quality an
varies from manufacturer to manufacturer.	
 Penetration time of glove material The exact break through time has to be found out by the manufacturer of the 	protective gloves and has to be
observed.	protective groves and has to be
Eye/face protection	
Safety glasses	

3.1 information on basic physical and cher	
General Information	
Physical state	Fluid
Colour:	colourless to pale yellow
Odour:	aromatic
Odour threshold:	Not determined.
Melting point/freezing point:	< -20,0 °C
Boiling point or initial boiling point and boiling range	158,00 - 210,00 °C
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
	(continued on page 6



1733205

Reviewed on: 19.12.2022

Printing date:	19.12.2022
----------------	------------

	(continued of page 5
Upper:	Not determined.
Flash point:	47,3 °C NFT 60-103 CC
Ignition temperature:	265,00 °C
Decomposition temperature:	Not determined.
рН	Not determined.
Viscosity:	
Kinematic viscosity	at 40,00 °C 6,00 mm2/s
Dynamic:	Not determined.
Solubility	
water:	Not determined.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density:	Not determined.
Relative density	0,9020 0,9220 D20/20
Vapour density	Not determined.
9.2 Other information	No further relevant information available.
Appearance:	
Form:	fluid
Important information on protection of heal	Ith and environment, and on safety.
Auto-ignition temperature:	Not determined.
Explosive properties:	Not determined.
Solvent content:	
Solids content:	0,00 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard	classes
Explosives	not applicable
Flammable gases	not applicable
Aerosols	not applicable
Oxidising gases	not applicable
Gases under pressure	not applicable
Flammable liquids	Flammable liquid and vapour.
Flammable solids	not applicable
Self-reactive substances and mixtures	not applicable
Pyrophoric liquids	not applicable
Pyrophoric solids	not applicable
Self-heating substances and mixtures	not applicable
Substances and mixtures, which emit flammable gases in contact with water	not applicable
Oxidising liquids	not applicable
Oxidising solids	not applicable
Organic peroxides	not applicable
Corrosive to metals	not applicable
Desensitised explosives	not applicable

(continued on page 7)



1733205

	Reviewed on: 19. Printing date: 19.
PRODUCT : Rosemary oil	(and the set of the set
SECTION 10: Stability and reactivity	(continued of page 6)
10.1 Reactivity No further relevant information available.	
10.2 Chemical stability	
10.3 Possibility of hazardous reactions No dangerous reactions known.	
10.4 Conditions to avoid No further relevant information available.	
10.5 Incompatible materials: No further relevant information available.	
10.6 Hazardous decomposition products: Not determined.	
SECTION 11: Toxicological information	
 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity 	3
LD/LC50 values relevant for classification: ISO LD/LC	5
8000-25-7 Rosemary oil Oral, LD50: 5000 mg/kg (rat) (1971)	
470-82-6 Eucalyptol Oral, LD50: 3849 mg/kg (mouse) (Jiao Xu, 2014)	
76-22-2 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one Oral, LD50: >5000 mg/kg (rat) (Opdyke 1978) Dermal, LD50: >1000 mg/kg (mouse) (NTP 1998)	
87-44-5 beta-Caryophyllene Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)	
5989-27-5 (R)-p-mentha-1,8-diene Oral, LD50: 4400 mg/kg (rat)	
98-55-5 p-menth-1-en-8-ol Oral, LD50: 4300 mg/kg (rat)	
78-70-6 Linalool Oral, LD50: 2790 mg/kg (rat)	
Dermal, LD50: 5610 mg/kg (Rabbit)	
99-86-5 p-mentha-1,3-diene Oral, LD50: 1680 mg/kg (ATE)	
 Primary irritant effect: Skin corrosion/irritation 	
Irritant to skin and mucous membranes.	
Causes skin irritation Serious eye damage/irritation	
8000-25-7 Rosemary oil Irritation of eyes, OECD 437 BCOP: NOT CLASSIFIED (in vitro) (55>IVIS>3; 2013) Irritating effect.	
 Causes serious eye irritation. Respiratory or skin sensitisation No sensitizing effects known. Germ cell mutagenicity 	
8000-25-7 Rosemary oil OECD 471 AMES: NEGATIVE (in vitro) (2013)	
470-82-6 Eucalyptol OECD 471 AMES: NEGATIVE (in vitro) (Haworth, 1983)	
76-22-2 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one OECD 471 AMES: NEGATIVE (in vitro) (Anderson and Styles 1978)	
87-44-5 beta-Caryophyllene OECD 471 AMES: NEGATIVE (in vitro) (Heck and al., 1989)	
	(continued on page 8)



1733205

Reviewed on: 19.12.2022 Printing date: 19.12.2022

RODUCT : Rosemary oil	
	(continued of page 7)
78-70-6 Linalool	
OECD 471 AMES: NEGATIVE (in vitro) (Letizia and al., 2007)	
Carcinogenicity	
76-22-2 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one Micronoyau: NEGATIVE (mouse) (NTP 1999)	1
78-70-6 Linalool	
Micronoyau: NEGATIVE (mouse) (in vivo, Letizia and al., 2007)	
Micronoyau: NEGATIVE (in vitro) (DiSotto and al., 2011)	
Reproductive toxicity	
Not determined.	
STOT-single exposure	
May cause damage to organs.	
 STOT-repeated exposure Not determined. 	
Aspiration hazard	
May be fatal if swallowed and enters airways.	
May be fatal if swallowed and enters airways.	
 Subacute to chronic toxicity: 	
8000-25-7 Rosemary oil	
Oral, NOAEL: 1000 mg/kg (rat) (OECD 422, 2013)	
76-22-2 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one	
Oral, NOAEL: >800 mg/kg (rat) (fetal toxicity GD 6 to 15, NTP	1992)
87-44-5 beta-Caryophyllene	
Oral, NOAEL: 700 mg/kg (rat) (90 days Schmitt 2016)	
78-70-6 Linalool	
Oral, NOAEL: 200 mg/kg (rat) (maternal toxicity, Politano and a	аі.,
2008) 11.2 Information on other hazards	
 Endocrine disrupting properties 	
Substance is not listed.	

SECTION 12: Ecological information

12.1 Toxicity • Aquatic toxicity: 76-22-2 1,7,7-Trimethylbicyclo[2.2.1]heptan-2-one CE50/48h: 26,82 mg/l (daphnia) ErC50(0-72h): 23,8 mg/l (algae) 5989-27-5 (R)-p-mentha-1,8-diene LD50: 0,71 mg/l (fish) (OECD 203) **9-87-6 p-cymene** LD50: 1,63 mg/l (fish) (OECD 203) 99-87-6 123-35-3 Myrcene LD50: 0,51 mg/l (fish) (OECD 203) CE50/48h: 0,65 mg/l (daphnia) 78-70-6 Linalool LD50: 27,8 mg/l (fish) ((OECD 203) RIFM 1991) ErC50(0-72h): 156,7 mg/l (algae) ErC50(0-48h): 59 mg/l (daphnia) ((OECD 202) 12.2 Persistence and degradability 8000-25-7 Rosemary oil OECD 301: 70 % (in vitro) (301F 28 days, 2011) Behaviour in environmental systems: Not determined. 12.3 Bioaccumulative potential No further relevant information available. 12.4 Mobility in soil No further relevant information available. 12.5 Results of PBT and vPvB assessment • PBT:



1733205

RODUCT : Ro	osemary oil
	(continued of page 8
Not applicable.vPvB:	
Not applicable.	
	disrupting properties
The product does r	not contain substances with endocrine disrupting properties.
12.6 Other adve	irse effects
	t information available.
 Ecotoxical effective 	
Not determinedRemark:	
Toxic for fish	
	logical information:
General notes	
Toxic for aquati	c organisms harmful to the environment.
	sposal considerations
Letion 13. Dis	
13.1 Waste trea	
 Recommendation 	
 Uncleaned part 	ly treated adhering to official regulations. ckaging:
 Recommendation 	
Disposal must b	e made according to official regulations.
14.1 UN number	
14.1 UN number ADR	r or ID number UN1993
14.1 UN number	r or ID number
14.1 UN number ADR IMDG IATA	r or ID number UN1993 UN1993 UN1993
14.1 UN number ADR IMDG	r or ID number UN1993 UN1993 UN1993
14.1 UN number ADR IMDG IATA 14.2 UN proper	r or ID number UN1993 UN1993 UN1993 shipping name
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR	r or ID number UN1993 UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.)
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport h	r or ID number UN1993 UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.)
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport h ADR	r or ID number UN1993 UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) nazard class(es)
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport F ADR Class	r or ID number UN1993 UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.)
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport h ADR	r or ID number UN1993 UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) nazard class(es)
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport F ADR Class	r or ID number UN1993 UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) nazard class(es)
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport F ADR Class	r or ID number UN1993 UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) nazard class(es)
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport F ADR Class	r or ID number UN1993 UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) nazard class(es)
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport F ADR Class	r or ID number UN1993 UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) nazard class(es)
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport F ADR Class	r or ID number UN1993 UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) nazard class(es)
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport h ADR Class Label	r or ID number UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) TAZZARD class(es) 3 (F1) Flammable liquids.
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport F ADR Class Label	r or ID number UN1993 UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) nazard class(es)
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport h ADR Class Label	r or ID number UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) TAZZARD class(es) 3 (F1) Flammable liquids.
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport F ADR Class Label	r or ID number UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) TAZZARD class(es) 3 (F1) Flammable liquids.
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport F ADR Class Label	r or ID number UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) TAZZARD class(es) 3 (F1) Flammable liquids.
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport F ADR Class Label	r or ID number UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) TAZZARD class(es) 3 (F1) Flammable liquids.
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport h ADR Class Label	r or ID number UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) TAZZARD class(es) 3 (F1) Flammable liquids.
14.1 UN number ADR IMDG IATA 14.2 UN proper ADR IMDG IATA 14.3 Transport F ADR Class Label	r or ID number UN1993 UN1993 shipping name 1993 FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) FLAMMABLE LIQUID, N.O.S. (ROSMARINUS OFFICINALIS EXTR.) TAZZARD class(es) 3 (F1) Flammable liquids.



1733205

Reviewed on: 19.12.2022 Printing date: 19.12.2022

Label	3	(continued of page
14.4 Packing group ADR	3	
IMDG		
IATA	 III	
14.5 Environmental hazards Marine pollutant:	:: Yes	
14.6 Special precautions for Warning: Flammable liquids. Danger code (Kemler):	user 30	
EMS Number:	F-E,S-E	
14.7 Maritime transport in b Not applicable.	ulk according to IMO instruments	
 Transport/Additional infor Not applicable. ADR 	mation:	
Excepted quantities (EQ):	E1	
Limited quantities (LQ)	5L	
Transport category	3	
Tunnel restriction code	D/E	
IMDG		
Limited quantities (LQ)	5L	
Excepted quantities (EQ)	E1	
• UN "Model Regulation":	, N.O.S. (ROSMARINUS OFFICINALIS EXTR.), 3,	

SECTION 15: Regulatory information

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

- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II Substance is not listed.
- REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) Substance is not listed.
- Annex II REPORTABLE EXPLOSIVES PRECURSORS
- Substance is not listed.
- Regulation (EC) No 273/2004 on drug precursors Substance is not listed.
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors Substance is not listed.
- National regulations:
- Technical instructions (air):
 - Class Share in %
 - I 11,83

.

(continued on page 11)



1733205

Reviewed on: 19.12.2022

Printing date: 19.12.2022

PRODUCT : **Rosemary oil** (continued of page 10) • Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out. SECTION 16: Other information The information in this safety data sheet is based on the state of our knowledge at the date indicated. The information in this sheet must be regarded as a description of the safety requirements for the product, they are not to be considered a warranty or quality specification and have no contractual value on properties and application areas thereof. The information contained in this safety data sheet relate to the specific material designated and may not be valid with respect to the product associated with another product or process, unless it is specified in the text of this document. The required information complies with EU regulations in force. It does not exempt the user from knowing and applying all the national regulations in force. Relevant phrases H226 Flammable liquid and vapour. H228 Flammable solid. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H331 Toxic if inhaled. H332 Harmful if inhaled. H371 May cause damage to organs. 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. Training hints Minimum training in occupational risk prevention is recommended for personnel who will handle this product, in the purpose of facilitating the understanding and interpretation of this form of safety data in the same way as the labeling of the product. Abbreviations and acronyms: IFRA:International Fragrance Association IOFI:International Organization of the Flavor Industry IFRA:International Fragrance Association IOFI:International Organization of the Flavor Industry ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation DOT: US Department of Transportation IATA: International Air Transport Association IATA: International Air Transport Association ICAO: International Civil Aviation Organisation ICAO: International Civil Aviation Organisation GHS: Globally Harmonised System of Classification and Labelling of Chemicals GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative vPvB: very Persistent and very Bioaccumulative CE50: effective concentration at 50% ErC50: concentration of test substance which results in a 50 percent reduction in either growth rate (ErC50)relative to the control within 72hrs exposure. Sources IFRA/IOFI Labelling Manual, REACH registration dossier, supplier information

* Data compared to the previous version altered.