

SAFETY DATA SHEET

MASKOMAL

LANXESS
Energizing Chemistry

57804478

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

1.1 Product identifier

Product name : MASKOMAL
Hazardous ingredients : Contains: (R)-p-mentha-1,8-diene,docusate sodium,alcohols, C6-12, ethoxylated,allyl hexanoate

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

Suitable uses : Odour Neutralizer

1.3 Details of the supplier of the safety data sheet

Supplier : Antec International Limited
Windham Road
Chilton Industrial Estate
Sudbury / Suffolk - CO10 2XD
United Kingdom

Telephone: +49 221 8885 2288
E-mail: infosds@lanxess.com

1.4 Emergency telephone number

Telephone number : 0870 190 6777. National Chemical Emergency Centre

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Classification : Eye Irrit. 2, H319
Skin Sens. 1, H317
Aquatic Chronic 2, H411

Ingredients of unknown ecotoxicity : Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 2,9%

See Section 16 for the full text of the H statements declared above.

2.2 Label elements

Hazard pictograms



Signal word

: Warning
Contains: (R)-p-mentha-1,8-diene,docusate sodium,alcohols, C6-12, ethoxylated,allyl hexanoate

Hazard statements

: H319 - Causes serious eye irritation.
H317 - May cause an allergic skin reaction.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : Wear protective gloves and eye/face protection. Avoid release to the environment. Avoid breathing vapour.

Response : IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

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SECTION 2: Hazards identification**2.3 Other hazards**

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

Product definition (REACH) : Mixture

Product/ingredient name	Identifiers	%	Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]	Type
(R)-p-mentha-1,8-diene	EC: 227-813-5 CAS: 5989-27-5 Index: 601-029-00-7	≤3,3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
p-menth-1-en-8-yl acetate	EC: 201-265-7 CAS: 80-26-2	≤5	Aquatic Chronic 2, H411	[1]
terpineol	REACH #: 01-2119553062-49 EC: 232-268-1 CAS: 8000-41-7	≤2,6	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
Cymbopogon citratus, ext.	CAS: 8007-02-1	≤2,5	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
isopentyl acetate	EC: 204-662-3 CAS: 123-92-2 Index: 607-130-00-2	≤5	Flam. Liq. 3, H226 EUH066	[1] [2]
docusate sodium	REACH #: 01-2119491296-29 EC: 209-406-4 CAS: 577-11-7	≤1,4	Skin Irrit. 2, H315 Eye Dam. 1, H318	[1]
alcohols, C6-12, ethoxylated	CAS: 68439-45-2	≤1,4	Acute Tox. 4, H302 Eye Dam. 1, H318	[1]
allyl hexanoate	EC: 204-642-4 CAS: 123-68-2	<1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	[1]

Occupational exposure limits, if available, are listed in Section 8.

Type

- [1] Substance classified with a health or environmental hazard
 [2] Substance with a workplace exposure limit
 [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
 [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
 [5] Substance of equivalent concern

SECTION 4: First aid measures

4.1 Description of first aid measures

- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

See Section 11 for more detailed information on health effects and symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO₂.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
metal oxide/oxides

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. Collect spillage.

6.3 Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Seveso Directive - Reporting thresholds (in tonnes)

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
E2: Hazardous to the aquatic environment - Chronic 2	200	500
C6: Flammable (R10)	5000	50000
C9ii: Toxic for the environment	200	500

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limit values

Ingredient name	Occupational exposure limits
isopentyl acetate	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 541 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours. TWA: 270 mg/m ³ 8 hours.

Derived effect levels

Ingredient name	Type	Exposure	Value	Population	Effects	Remarks
docusate sodium	DNEL	Long term Inhalation	44,1 mg/m ³	Workers	Systemic	-
	DNEL	Long term Inhalation	13 mg/m ³	Consumers	Systemic	-
	DNEL	Long term Inhalation	18,8 mg/kg bw/day	Consumers	Systemic	-
	DNEL	Long term Dermal	31,3 mg/kg bw/day	Workers	Systemic	-
	DNEL	Long term Dermal	18,8 mg/kg bw/day	Consumers	Systemic	-
Conclusion/Summary		: Not available.				

Predicted No Effect Concentration (PNEC)

Ingredient name	Compartment Detail	Value	Method Detail	Remarks
docusate sodium	soil	0,138 mg/kg	Assessment Factors	-
	Sewage Treatment Plant	122 mg/l	Assessment Factors	-
	Sediment	0,653 mg/kg	Assessment Factors	-
	Marine water	0,0007 mg/l	Assessment Factors	-
	Intermittent release	0,066 mg/l	Assessment Factors	-
	Fresh water	0,0066 mg/l	Assessment Factors	-
Conclusion/Summary		: Not available.		

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

8.2 Exposure controls

Appropriate engineering controls : If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures

SECTION 8: Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Recommended: Tightly fitting safety goggles.
or face shield
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations
Recommended: (1 - 4 hours) polyvinyl chloride (PVC), Nitrile rubber - NBR, Butyl rubber - IIR
- Other skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Recommended: Wear protective clothing.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Recommended: Full mask with type ABEK filter
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid. [Emulsion.]
- Colour** : Yellow
- Odour** : Characteristic. (Vanilla)
- Odour threshold** : Not available.
- pH** : 5,8 to 7,5
- Melting point** : Not available.
- Boiling point** : Not available.
- Flash point** : Closed cup: 54,6°C (130,3°F)
- Burning time** : Not applicable.
- Burning rate** : Not applicable.
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapour pressure** : Not available.
- Vapour density** : Not available.
- Density** : 0,98 to 1,005 kg/L (20°C)

SECTION 9: Physical and chemical properties

Relative density	: Not available.
Solubility in water	: Miscible in water.
Partition coefficient: n-octanol/ water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.

9.2 Other information

Remarks	: Sustained Combustibility Testing: test L.2, Part III > 75 °C
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No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: No specific data.
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure	Test
(R)-p-mentha-1,8-diene p-menth-1-en-8-yl acetate	LD50 Oral LD50 Oral	Rat Rat - Male, Female	4400 mg/kg 5075 mg/kg	- -	- OECD 401 Acute Oral Toxicity
terpineol	LD50 Oral	Rat - Male, Female	>5000 mg/kg Extrapolation according to Regulation (EC) No. 440/2008	-	OECD 401 Acute Oral Toxicity
Cymbopogon citratus, ext. isopentyl acetate	LD50 Oral	Rat	>5 g/kg	-	-
docusate sodium	LD50 Oral	Rat	16600 mg/kg	-	-
allyl hexanoate	LD50 Oral	Rat	>3100 mg/kg	-	-
	LD50 Oral	Rat - Male, Female	218 mg/kg	-	OECD 401 Acute Oral Toxicity
terpineol	LD50 Dermal	Rat - Male, Female	>5000 mg/kg Extrapolation according to Regulation (EC) No. 440/2008	-	OECD 402 Acute Dermal Toxicity
Cymbopogon citratus, ext. isopentyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-	-
	LD50 Dermal	Rabbit	>5 g/kg	-	-

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docusate sodium allyl hexanoate	LD50 Dermal LD50 Dermal	Rabbit Rabbit - Male, Female	>5000 mg/kg 820 mg/kg	- -	- -	OECD 402 Acute Dermal Toxicity
terpineol	LC50 Inhalation Dusts and mists	Rat - Male, Female	>4,76 mg/l Dosage caused no mortality	4 hours		OECD 403 Acute Inhalation Toxicity
docusate sodium	LC50 Inhalation Dusts and mists	Rat	>20 mg/l	4 hours	-	

Acute toxicity estimates

Route	ATE value
Oral	26076,6 mg/kg
Dermal	205000 mg/kg
Inhalation (dusts and mists)	125 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Test	Reversibility
p-menth-1-en-8-yl acetate	Skin - Mild irritant	Guinea pig	-	168 hours	50 Percent Intermittent	-
	Skin - Mild irritant	Guinea pig	-	192 hours	10 Percent Intermittent	-
terpineol	Skin - Erythema/ Eschar	Rabbit	3	4 hours	OECD 404 Acute Dermal Irritation/ Corrosion	Fully reversible
	Skin - Oedema	Rabbit	2	4 hours	OECD 404 Acute Dermal Irritation/ Corrosion	Fully reversible
	Eyes - Redness of the conjunctivae	Rabbit	2	24 hours	OECD 405 Acute Eye Irritation/ Corrosion	Fully reversible
	Eyes - Cornea opacity	Rabbit	1	24 hours	OECD 405 Acute Eye Irritation/ Corrosion	Fully reversible
	Eyes - Iris lesion	Rabbit	0	24 hours	OECD 405 Acute Eye Irritation/ Corrosion	-
	Eyes - Oedema of the conjunctivae	Rabbit	2	24 hours	OECD 405 Acute Eye Irritation/ Corrosion	Fully reversible
docusate sodium	Eyes - Mild irritant	Rabbit	-	250 Micrograms	-	-
	Eyes - Severe irritant	Rabbit	-	1 Percent	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours	10 milligrams	-

Conclusion/Summary

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Skin : (R)-p-mentha-1,8-diene:OECD 404: Non-irritating (Rabbit)
 p-menth-1-en-8-yl acetate:OECD 404: Non-irritating (Rabbit)
 terpineol:irritant
 Cymbopogon citratus, ext.:irritant (Rabbit)
 isopentyl acetate:slightly irritant
 docusate sodium:Irritating to skin.
 allyl hexanoate:OECD 431 In Vitro Skin Corrosion: Human Skin Model Test: Non-irritating

Eyes : (R)-p-mentha-1,8-diene:OECD 405: Non-irritating (Rabbit)
 p-menth-1-en-8-yl acetate:OECD 438 (Isolated Chicken Eye Test Method for Identifying Ocular Corrosives and Severe Irritants): Non-irritating
 terpineol:irritant
 Cymbopogon citratus, ext.:irritant
 isopentyl acetate:slightly irritant
 docusate sodium:Risk of serious damage to eyes.
 allyl hexanoate:OECD 405: Non-irritating (Rabbit)

Sensitisation

Product/ingredient name	Route of exposure	Species	Result	Test description
(R)-p-mentha-1,8-diene	skin	Mouse	Sensitising	OECD 429 Skin Sensitisation: Local Lymph Node Assay
p-menth-1-en-8-yl acetate	skin	Mouse	Not sensitizing	OECD 429 Skin Sensitisation: Local Lymph Node Assay
terpineol	skin	Guinea pig	Not sensitizing	OECD 406 Skin Sensitization
isopentyl acetate	skin	Human	Not sensitizing	-
docusate sodium	skin	Guinea pig	Not sensitizing	-
allyl hexanoate	skin	Guinea pig	Not sensitizing	OECD 406 Skin Sensitization

Mutagenicity

Product/ingredient name	Test	Experiment	Result
terpineol	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: with/without	Negative
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic Metabolic activation: with/without	Negative
	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Human Cell: Somatic Metabolic activation: with/without	Negative
isopentyl acetate	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
docusate sodium	OECD 473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Animal Metabolic activation: with	Equivocal
	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative

SECTION 11: Toxicological informationMetabolic activation:
with and without**Reproductive toxicity**

Product/ingredient name	Effects	Species	Dose	Exposure / Test
terpineol	NOAEL: P, F1	Rat - Male, Female	Oral: 250 mg/ kg bw/day	6 weeks; 7 days per week daily
docusate sodium	-	Rat - Female	Oral: 400 mg/ kg NOAEL	pre-mating; daily

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
docusate sodium	Negative - Oral	Rat - Female	400 mg/kg NOAEL	19 days; daily

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Short term exposure**

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Terpineol	Sub-acute NOAEL Oral	Rat - Male, Female	250 mg/kg bw/ day	6 weeks; 7 days per week daily
docusate sodium	Chronic NOAEL Oral	Rat	0,94 g/kg	-

Conclusion/Summary : p-menth-1-en-8-yl acetate:No known significant effects or critical hazards.
allyl hexanoate:No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information**12.1 Toxicity**

Product/ingredient name	Test	Result	Species	Exposure
(R)-p-mentha-1,8-diene	OECD 202 <i>Daphnia</i> sp. Acute Immobilization Test	Acute EC50 0,307 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 0,72 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	OECD 201 Alga, Growth Inhibition Test	Acute EC50 0,32 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
p-menth-1-en-8-yl acetate	OECD 203 Fish, Acute Toxicity	Acute LC50 >11 mg/l Fresh water	Fish - Pimephales	96 hours

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terpineol	Test OECD 202 <i>Daphnia</i> sp. Acute Immobilization Test	Acute EC50 >10 mg/l Fresh water	promelas Daphnia - Daphnia magna	48 hours
	OECD 201 Alga, Growth Inhibition Test	Acute EC50 6,9 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 62 mg/l Fresh water	Fish - Danio rerio	96 hours
	OECD 202 <i>Daphnia</i> sp. Acute Immobilization Test	Acute LC50 73 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
isopentyl acetate	OECD 201 Alga, Growth Inhibition Test	Acute EC50 68 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	-	Acute EC50 205 mg/l	Daphnia - Daphnia magna	24 hours
docusate sodium	OECD 201 Alga, Growth Inhibition Test	Acute IC50 >100 mg/l	Algae - Desmodesmus subspicatus	48 hours
	-	Acute LC50 131 mg/l	Fish - Leuciscus idus	48 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 37 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 28 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
allyl hexanoate	OECD 202 <i>Daphnia</i> sp. Acute Immobilization Test	Acute EC50 36 mg/l	Daphnia - Daphnia magna	48 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 0,117 mg/l Fresh water	Fish - Danio rerio	96 hours
	OECD EU Method C.2 (Acute Toxicity for Daphnia)	Acute EC50 2 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
(R)-p-mentha-1,8-diene	OECD 201 Alga, Growth Inhibition Test	Acute EC50 >4,6 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	OECD 212 Fish, Short-term Toxicity Test on Embryo and Sac-Fry Stages	Chronic NOEC 0,059 mg/l Fresh water	Fish - Pimephales promelas	8 days
	OECD 211 Daphnia Magna Reproduction Test	Chronic NOEC 0,08 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	OECD 201 Alga, Growth Inhibition Test	Chronic EC10 0,174 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
isopentyl acetate	OECD 201 Alga, Growth Inhibition Test	Chronic NOEC >100 mg/l	Algae - Desmodesmus subspicatus	72 hours
allyl hexanoate	OECD 201 Alga, Growth	Chronic NOEC 0,158 mg/l Fresh water	Algae - Desmodesmus	72 hours

SECTION 12: Ecological information

	Inhibition Test		subspicatus	
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Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
(R)-p-mentha-1,8-diene	OECD 301D Ready Biodegradability - Closed Bottle Test	80 % - Readily - 28 days	-	-
p-menth-1-en-8-yl acetate	OECD 301F Ready Biodegradability - Manometric Respirometry Test	63 % - Readily - 28 days	-	-
Terpineol	OECD 310 Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test)	80 % - Readily - 28 days	-	-
docusate sodium	OECD 301A Ready Biodegradability - DOC Die-Away Test	95 % - Readily - 28 days	-	-
allyl hexanoate	OECD 301F Ready Biodegradability - Manometric Respirometry Test	70 % - Readily - 28 days	-	-

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
(R)-p-mentha-1,8-diene	-	-	Readily
p-menth-1-en-8-yl acetate	-	-	Readily
Terpineol	-	-	Readily
isopentyl acetate	-	-	Readily
docusate sodium	-	-	Readily
allyl hexanoate	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
(R)-p-mentha-1,8-diene	4,38	-	high
p-menth-1-en-8-yl acetate	4,4	-	high
Terpineol	2,6	-	low
isopentyl acetate	2,25	-	low
docusate sodium	-	9,33	low
allyl hexanoate	3,191	-	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

SECTION 12: Ecological information

PBT : Not applicable.
vPvB : Not applicable.

12.6 Other adverse effects

Other adverse effects : No known significant effects or critical hazards.
AOX : Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

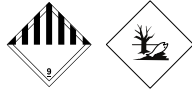
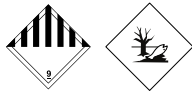
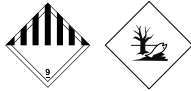
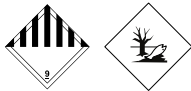
Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERPENES)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERPENES)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERPENES)	Environmentally hazardous substance, liquid, n.o.s. (TERPENES)
14.3 Transport hazard class(es)/ Marks	9 	9 	9 	9 
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes	Yes
14.6 Special precautions for user/Additional information	<u>Hazard identification number</u> 90	<u>Hazard identification number</u> 90	<u>Emergency schedules (EmS)</u> F-A, S-F	<u>Passenger aircraft</u> 964: 450 L <u>Cargo aircraft</u> 964: 450 L

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 14: Transport information**Hazard notes:**

Environmentally hazardous substance.
Irritating to the eyes.
Keep separated from foodstuffs.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Regulation (EC) No. 1907/2006 (REACH)****Annex XIV - List of substances subject to authorisation****Annex XIV**

None of the components are listed.

Substances of very high concern

None of the components are listed.

Other EU regulations**Seveso Directive**

This product is controlled under the Seveso III Directive.

Danger criteria

Category
E2: Hazardous to the aquatic environment - Chronic 2 C6: Flammable (R10) C9ii: Toxic for the environment

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Calculation method Calculation method Calculation method

Full text of abbreviated H statements

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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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SECTION 16: Other information[Full text of classifications \[CLP/GHS\]](#)

Acute Tox. 3, H301	ACUTE TOXICITY (oral) - Category 3
Acute Tox. 3, H311	ACUTE TOXICITY (dermal) - Category 3
Acute Tox. 3, H331	ACUTE TOXICITY (inhalation) - Category 3
Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Aquatic Acute 1, H400	ACUTE AQUATIC HAZARD - Category 1
Aquatic Chronic 1, H410	LONG-TERM AQUATIC HAZARD - Category 1
Aquatic Chronic 2, H411	LONG-TERM AQUATIC HAZARD - Category 2
Aquatic Chronic 3, H412	LONG-TERM AQUATIC HAZARD - Category 3
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Dam. 1, H318	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1

History

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Notice to reader

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet and its Annex [if required according to Regulation (EC) 1907/2006 (REACH)] is to describe the products in terms of their safety requirements. The given details do not imply any guarantee concerning the composition, properties or performance.