

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

1.1. Product identifier

Trade name : Dry wash 5 I
Product code : DRW 05

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Chemicar Europe NV
Baarbeek 2
2070 Zwijndrecht
T +32 (0) 3 234 87 80 - F +32 (0) 3 234 87 89
info@chemicar.eu

1.4. Emergency telephone number

Emergency number : +32 (0) 3 760 08 09

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin sensitisation, Category 1 H317

Hazardous to the aquatic environment — H412

Chronic Hazard, Category 3

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazardous ingredients :

D-LIMONENE

Hazard statements (CLP) :

H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P273 - Avoid release to the environment.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
D-LIMONENE	(CAS-No.) 5989-27-5 (EC-No.) 227-813-5 (EC Index-No.) 601-029-00-7	< 3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Keep victim at rest in half upright position. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Give psychological aid. Keep the victim calm, avoid physical strain. Obtain medical assistance.
First-aid measures after inhalation	: Assure fresh air breathing.
First-aid measures after skin contact	: Rinse with plenty of water. After contact with skin, wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting.

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: ABC-powder. BC-powder. Alcohol resistant foam. Water spray.
Unsuitable extinguishing media	: Water.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Upon heating, toxic fumes are formed. nitrogen oxides (NOx) and sulphur oxides. carbon monoxide. Carbon dioxide.
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5.3. Advice for firefighters

Firefighting instructions	: Dilute toxic gases with water spray. Dyke fire control water for later disposal and do not scatter the material.
Protection during firefighting	: Gloves. protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: See Heading 8.
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6.1.2. For emergency responders

Protective equipment	: Gloves. protective clothing.
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6.2. Environmental precautions

Contain leaking substance, pump over in suitable containers. In case of fire: stop leak if safe to do so. Take up liquid spill into inert absorbent material. Prevent soil and water pollution. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Take up liquid spill into inert absorbent material. Scoop absorbed substance into closing containers.
Methods for cleaning up	: Absorb spilled material with sand or earth. Contaminated surfaces: clean (treat) with an excess of water. This material and its container must be disposed of in a safe way, and as per local legislation. Wash clothing and equipment after handling.
Other information	: Concerning disposal elimination after cleaning, see section 13.

6.4. Reference to other sections

SECTION 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use spark-/explosionproof appliances and lighting system. Observe strict hygiene. Take off immediately all contaminated clothing. Do not discharge the waste into the drain. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool place. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Protect against frost. Provide for a tub to collect spills. Meet the legal requirements.

Storage conditions : Use and store away from all naked flames, heat sources or working electrical appliances. Do not smoke.

Packaging materials : a polypropylene.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

Germany

(R)-p-Mentha-1,8-dien (D-Limonen)	Time-weighted average exposure limit 8 h (TRGS 900)	5 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	28 mg/m ³

Sampling methods

Product name	Test	Number
d-Limonene (Volatile Organic compounds)	NIOSH	2549
Limonene	NIOSH	1552

DNEL/DMEL – workers

(R)-p-mentha-1,8-diene

Effect level (DNEL/DMEL)	Type	Value
DNEL	Long-term systemic effects inhalation	66.7 mg/m ³
	Long-term systemic effects dermal	9.5 mg/kg bw/day

DNEL/DMEL – General population

(R)-p-mentha-1,8-diene

Effect level (DNEL/DMEL)	Type	Value
DNEL	Long-term systemic effects inhalation	16.6 mg/m ³
	Long-term systemic effects dermal	4.8 mg/kg bw/day
	Long-term systemic effects oral	4.8 mg/kg bw/day

PNEC

(R)-p-mentha-1,8-diene

Compartments	Value
Fresh water	1.4 µg/l
Marine water	1.4 µg/l
STP	1.8 mg/l
Fresh water sediment	3.85 mg/kg sediment dw
Marine water sediment	0.385 mg/kg sediment dw
Soil	0.763 mg/kg soil dw
Oral	133 mg/kg food

8.2. Exposure controls

Appropriate engineering controls:

Measure concentrations regularly, and at the time of any change occurring in conditions likely to have consequences on workers exposure. Provide adequate ventilation to minimize dust concentrations. Carry out operations in the open/under local exhaust/ventilation or with respiratory protection.

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Materials for protective clothing:

Wear suitable protective clothing

Hand protection:

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
					EN 374

Eye protection:

Face shield

Respiratory protection:

Device	Filter type	Condition	Standard
	Type A - High-boiling (>65 °C) organic compounds	If conc. in air > exposure limit	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: No data available
Odour	: alcohol odour.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 100 °C
Flash point	: > 100 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.988 - 0.998
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: < 2.5 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

Heating increases the fire hazard.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat. In finely divided state: use spark-/explosionproof appliances. Finely divided: keep away from ignition sources/sparks.

10.5. Incompatible materials

No additional information available

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10.6. Hazardous decomposition products

On heating/burning: release of toxic and corrosive gases/vapours e.g.: nitrous vapours, sulphur oxides, carbon monoxide - carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

No (test)data on the mixture available
Judgement is based on the relevant ingredients

(R)-p-mentha-1,8-diene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination
Oral	LD50	OECD 423	> 2000 mg/kg bw		Rat (female)	Read-across
Dermal	LD50	Equivalent to OECD 402	> 5000 mg/kg bw	24 h	Rabbit	Inconclusive, insufficient data
Inhalation						Data waiving

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation : Not classified

No (test)data on the mixture available
Judgement is based on the relevant ingredients

(R)-p-mentha-1,8-diene

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Not irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value
Skin	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value
Skin	Irritating; category 2					Annex VI

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause an allergic skin reaction.

No (test)data on the mixture available
Judgement is based on the relevant ingredients

(R)-p-mentha-1,8-diene

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Dermal (on the ears)	Sensitizing	OECD 429			Mouse (female)	Experimental value

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

12.2. Persistence and degradability

No additional information available

(R)-p-mentha-1,8-diene

Biodegradation water

Method	Value	Duration	Value determination
OECD 301D: Closed Bottle Test	80 %; GLP	28 day(s)	Read-across

Phototransformation air (DT50 air)

Method	Value	Duration	Value determination
AOPWIN v1.92	0.365 h		Calculated value

Biodegradation soil

Method	Value	Duration	Value determination
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			Data waiving
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Conclusion

Contains readily biodegradable component(s)

12.3. Bioaccumulative potential

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

(R)-p-mentha-1,8-diene

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		864.8-1022; Fresh weight		Pisces	QSAR

Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117		4.38	37 °C	Experimental value

Conclusion

Contains bioaccumulative component(s)

12.4. Mobility in soil

(R)-p-mentha-1,8-diene

(log) Koc

Parameter	Method	Value	Value determination
Koc	SRC PCKOCWIN v2.0	1120	QSAR

Conclusion

Contains component(s) that adsorb(s) into the soil

12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6. Other adverse effects

DRW - Drywash

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of substances which may contribute to the greenhouse effect (IPCC)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009) SECTION 13: Disposal considerations

13.1. Waste treatment methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Contains a component for which a prohibition exists against discharge into surface water.

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN
14.1. UN number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	IATA	ADN
No supplementary information available			

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : < 2.5 %

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 2, significant hazard 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

Waterbezwaarlijkheid : 2 - May cause heritable genetic damage

Saneringsinspanningen : A - In principe niet lozen; zo ja, dan toepassen van beste bestaande technieken

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are 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

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

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H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

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