

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

1.1. Product identifier

Product form : Mixture
 Product name : Parasilico Cleaner aerosol
 Type of product : Aerosol

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

1.2.1. Relevant identified uses

Main use category : Professional use
 Industrial/Professional use spec : Reserved for professional users. Attention! - Avoid exposure - obtain special instructions before use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

DL CHEMICALS
 Roterijstraat 201-203
 B-8793 Waregem - Belgium
 T + 32 56 62 70 51 - F + 32 56 60 95 68
info@dl-chem.com - www.dl-chem.com

1.4. Emergency telephone number

Emergency number : + 32 70 245 245

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol, Category 1 H222;H229
 Skin corrosion/irritation, Category 2 H315
 Specific target organ toxicity — Single exposure, Category 3, Narcosis H336
 Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

Full text of hazard classes and H-statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS07

GHS09

CLP Signal word :

Danger

Hazardous ingredients :

n-hexane, cyclohexane, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclical, < 5% n-hexane

Hazard statements (CLP) :

H222 - Extremely flammable aerosol
 H229 - Pressurised container: May burst if heated
 H315 - Causes skin irritation
 H336 - May cause drowsiness or dizziness
 H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
 P211 - Do not spray on an open flame or other ignition source
 P251 - Do not pierce or burn, even after use
 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
 P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
 P101 - If medical advice is needed, have product container or label at hand
 P102 - Keep out of reach of children

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P271 - Use only outdoors or in a well-ventilated area
P403 - Store in a well-ventilated place
P405 - Store locked up
P501 - Dispose of contents/container to an authorised waste collection point

Child-resistant fastening : No
Tactile warning : No

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclical, < 5% n-hexane	(CAS No) 64742-49-0 (EC no) 921-024-6 (REACH-no) 01-2119475514-35	>= 50	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
butane	(CAS No) 106-97-8 (EC no) 203-448-7 (EC index no) 601-004-00-0 (REACH-no) 01-2119474691-32	10 - 25	Flam. Gas 1, H220 Compressed gas, H280
cyclohexane	(CAS No) 110-82-7 (EC no) 203-806-2 (EC index no) 601-017-00-1 (REACH-no) 01-2119463273-41	2,5 - 10	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
n-hexane	(CAS No) 110-54-3 (EC no) 203-777-6 (EC index no) 601-037-00-0 (REACH-no) 01-2119480412-44	1 - 2,5	Flam. Liq. 2, H225 Repr. 2, H361f Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411

Specific concentration limits:

Name	Product identifier	Specific concentration limits
n-hexane	(CAS No) 110-54-3 (EC no) 203-777-6 (EC index no) 601-037-00-0 (REACH-no) 01-2119480412-44	(C >= 5) STOT RE 2, H373

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : In case of accident by inhalation : remove casualty to fresh air and keep at rest. If unconscious, place in the recovery position and seek medical advice. Provide oxygen and/or ventilation assistance, if needed.

First-aid measures after skin contact : After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash before reuse.

First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Seek medical advice (show the label where possible). Do NOT induce vomiting. Rinse mouth out with water.

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

If you feel unwell, seek medical advice (show the label where possible). If symptoms persist call a doctor.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical. Carbon dioxide. BC-powder. Water fog. AFFF foam. BC-powder.
Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

Precautionary measures fire : Do not breathe fumes from fires or vapours from decomposition.
Firefighting instructions : Cool down the containers exposed to heat with a water spray.
Protection during firefighting : Wear a self contained breathing apparatus.
Other information : Evacuate area. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Eliminate all ignition sources if safe to do so. Ventilate area. Mixture containing mainly : Organic solvents.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing.

6.2. Environmental precautions

Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Do not allow into drains or water courses. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean with detergents. Avoid solvent cleaners.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure that there is a suitable ventilation system. Do not handle in a confined space. Do not eat, drink or smoke when using this product.

Hygiene measures : Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of reach of children. Keep away from sources of ignition - No smoking. Keep out of frost. Store in dry, well-ventilated area.

Storage temperature : 0 - 50 °C

Heat and ignition sources : Store away from direct sunlight or other heat sources. Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F.

Storage area : Floors should be impervious, resistant to liquids and easy to clean.

Packaging materials : Product must only be kept in the original packaging.

7.3. Specific end use(s)

No additional information available

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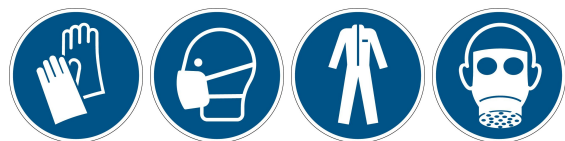
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

n-hexane (110-54-3)		
EU	IOELV TWA (mg/m ³)	72 mg/m ³
EU	IOELV TWA (ppm)	20 ppm
United Kingdom	WEL TWA (mg/m ³)	72 mg/m ³
United Kingdom	WEL TWA (ppm)	20 ppm
cyclohexane (110-82-7)		
EU	IOELV TWA (mg/m ³)	700 mg/m ³
EU	IOELV TWA (ppm)	200 ppm
United Kingdom	WEL TWA (mg/m ³)	350 mg/m ³
United Kingdom	WEL TWA (ppm)	100 ppm
United Kingdom	WEL STEL (mg/m ³)	1050 mg/m ³
United Kingdom	WEL STEL (ppm)	300 ppm
butane (106-97-8)		
United Kingdom	WEL TWA (mg/m ³)	1450 mg/m ³
United Kingdom	WEL TWA (ppm)	600 ppm
United Kingdom	WEL STEL (mg/m ³)	1810 mg/m ³
United Kingdom	WEL STEL (ppm)	750 ppm
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclical, < 5% n-hexane (64742-49-0)		
EU	IOELV TWA (mg/m ³)	1000 mg/m ³
EU	IOELV TWA (ppm)	249 ppm

8.2. Exposure controls

Personal protective equipment	: Gloves. Dust production: dust mask with filter type P1. Protective clothing. Gas mask with filter type A.
Hand protection	: Protective gloves made of PVA. DIN EN 374. protective gloves. The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN 374. Wash hands. Nitrile-rubber protective gloves
Eye protection	: Avoid contact with eyes. Use splash goggles when eye contact due to splashing is possible. DIN EN 166. Safety glasses. Do not spray into eyes
Skin and body protection	: Avoid contact with skin. Wear suitable protective clothing. complete protective suit against chemicals
Respiratory protection	: 149. (FFP1). This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. Use only in well-ventilated areas. Do not breathe vapours. Half-mask. Dust/aerosol mask with filter type P1. In case of inadequate ventilation wear respiratory protection. particulates filter device (DIN EN 143). Only approved supplied air or self-contained breathing apparatus operated in positive pressure mode are satisfactory, if exposure can exceed the exposure limit value



Other information : Assure that emissions are compliant with all applicable air pollution control regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol
Colour	: Colourless
Odour	: Light odour of petroleum
pH	: Not applicable
Flash point	: < 0 °C
Flammability (solid, gas)	: Extremely flammable aerosol

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Vapour pressure at 50 °C : Not applicable
Relative vapour density at 20 °C : 0,657
Solubility : Water: Insoluble

9.2. Other information

Minimum ignition energy : >= 30000 J
VOC content : 657 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat. Open flame. Sources of ignition. Protect from sunlight. Do not expose to temperatures exceeding 50 °C. High temperature. Protect from freezing.

10.5. Incompatible materials

Not known.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. fume. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

n-hexane (110-54-3)	
LD50 oral rat	16000 mg/kg
LD50 dermal rabbit	3350 mg/kg
LC50 inhalation rat (mg/l)	24 h 17,6 mg/l
LC50 inhalation rat (ppm)	73680 ppm
cyclohexane (110-82-7)	
LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LD50 dermal rabbit	> 2000 mg/kg (OECD 402 method)
LC50 inhalation rat (mg/l)	32880 mg/l (OECD 403 method)
butane (106-97-8)	
LC50 inhalation rat (Vapours - mg/l/4h)	658 mg/l/4h
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclical, < 5% n-hexane (64742-49-0)	
LD50 oral rat	5840 mg/kg (OECD 401 method)
LD50 dermal rabbit	2920 mg/kg (OECD 402 method)
LC50 inhalation rat (mg/l)	25,2 mg/l (OECD 403 method)

Skin corrosion/irritation : Causes skin irritation.
pH: Not applicable

Serious eye damage/irritation : Not classified
pH: Not applicable

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

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Potential adverse human health effects and symptoms : Exposure to organic solvent vapours above the indicated exposure limits may result in adverse health effects such as. Irritation of the respiratory tract and the other mucous membranes. Prolonged or repeated skin contact with the material will remove natural oils which leads to a dermatitis. May cause kidney and liver disease, and disorders of the central nervous system. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Splashes in the eyes may cause irritation and reversible local damage. May cause severe irreversible damage.

SECTION 12: Ecological information

12.1. Toxicity

Ecology – water : Toxic to aquatic life with long lasting effects. Do not allow into drains or water courses.

n-hexane (110-54-3)	
LC50 fish 1	96h 12,51 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 Daphnia 1	48h 2,1 mg/l Daphnia magna (Big water flea)
ErC50 (algae)	72h 9,29 mg/l Pseudokirchneriella subcapitata
cyclohexane (110-82-7)	
LC50 fish 1	4,53 mg/l (OECD 203 method)
EC50 Daphnia 1	48h 0,9 mg/l (OECD 202 method)
ErC50 (algae)	72h 3,4 mg/l (OECD 201 method)
NOEC chronic algae	0,925 mg/l (OECD 201 method)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclical, < 5% n-hexane (64742-49-0)	
LC50 fish 1	11,4 mg/l (OECD 203 method)
EC50 Daphnia 1	3 mg/l (OECD 202 method)
ErC50 (algae)	30 - 100 mg/l

12.2. Persistence and degradability

n-hexane (110-54-3)	
Persistence and degradability	Readily biodegradable, according to appropriate OECD test.
cyclohexane (110-82-7)	
Persistence and degradability	Readily biodegradable, according to appropriate OECD test.
butane (106-97-8)	
Persistence and degradability	Readily biodegradable, according to appropriate OECD test.
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclical, < 5% n-hexane (64742-49-0)	
Persistence and degradability	Easily biodegradable (concerning to the criteria of the OECD). Highly volatile. Will not undergo hydrolysis.

12.3. Bioaccumulative potential

n-hexane (110-54-3)	
Bioconcentration factor (BCF REACH)	501
Bioaccumulative potential	not bioaccumulable.
cyclohexane (110-82-7)	
Bioconcentration factor (BCF REACH)	167
Log Pow	3,44
Bioaccumulative potential	not bioaccumulable.
butane (106-97-8)	
BCF other aquatic organisms 1	33
Log Pow	2,89
Bioaccumulative potential	Bioaccumulation unlikely.
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclical, < 5% n-hexane (64742-49-0)	
Bioaccumulative potential	Not determined.

12.4. Mobility in soil

butane (106-97-8)	
Log Koc	900
Ecology - soil	Highly volatile product.
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclical, < 5% n-hexane (64742-49-0)	
Ecology - soil	Highly volatile.

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12.5. Results of PBT and vPvB assessment

Parasilico Cleaner aerosol	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Component	
cyclohexane (110-82-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects


SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Empty the packaging completely prior to disposal. Do not allow into drains or water courses.
Waste disposal recommendations	: Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Dispose of at a licensed waste collection centre.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

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

ADR	
14.1. UN number	1950
14.2. UN proper shipping name	AEROSOLS
UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS	
14.3. Transport hazard class(es)	2.1
	
14.4. Packing group	Not applicable
14.5. Environmental hazards	Dangerous for the environment : Yes
No supplementary information available	

14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207, LP02
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV12
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 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 : 657 g/l

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclical, < 5% n-hexane

SECTION 16: Other information

Full text of H- and EUH-statements:

Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Compressed gas	Gases under pressure : Compressed gas
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapour
H229	Pressurised container: May burst if heated
H280	Contains gas under pressure; may explode if heated
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H361f	Suspected of damaging fertility
H373	May cause damage to organs through prolonged or repeated exposure
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

MSDS Reach Annex II DL-Chem

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