

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

(EN / D)

Trade name : Lithofin Steel-Clean

Revision date : 22.06.2017
Print date : 23.06.2017

Version (Revision) : 2.0.0 (1.0.0)
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SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Lithofin Steel-Clean

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

Relevant identified uses

Mixture Care Product, contains: organic solvents

1.3 Supplier (manufacturer/importer/only representative/downstream user/distributor)

Supplier : Lithofin AG
Street : Heinrich-Otto-Str. 36
Postal code/city : 73240 Wendlingen
Telephone : +49 (0)7024 9403-0
Telefax : +49 (0)7024 9403-40
Contact : Technical Department
E-mail: info@lithofin.de

Emergency telephone number:
+49 (0)7024 9403-0
(Only available during office hours)

1.4 Emergency telephone number

see section 1.3

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Aerosol 1 ; H222 - Aerosols : Category 1 ; Extremely flammable aerosol.

Aerosol 1 ; H229 - Aerosols : Category 1 ; Pressurised container: May burst if heated.

2.2 Label elements

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

Hazard pictograms



Flame (GHS02)

Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

Precautionary statements

P102 Keep out of reach of children.
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.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.

Special rules for supplemental label elements for certain mixtures

EUH208 Contains (R)-P-MENTHA-1,8-DIENE. May produce an allergic reaction.

2.3 Other hazards

None

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Hydrocarbons, C10- C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; REACH registration No. : 01-2119457273-39-xxxx ; EC No. : 918-481-9; CAS No. : (64742-48-9)

Weight fraction : $\geq 45 - < 50$ %
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304

BUTANE ; REACH registration No. : 01-2119474691-32-xxxx ; EC No. : 203-448-7; CAS No. : 106-97-8

Weight fraction : $\geq 30 - < 35$ %
Classification 1272/2008 [CLP] : Flam. Gas 1 ; H220 Press. Gas (Liq.) ; H280

PROPANE ; REACH registration No. : 01-2119486944-21-xxxx ; EC No. : 200-827-9; CAS No. : 74-98-6

Weight fraction : $\geq 5 - < 10$ %
Classification 1272/2008 [CLP] : Flam. Gas 1 ; H220 Press. Gas (Liq.) ; H280

ISOBUTANE ; REACH registration No. : 01-2119485395-27-xxxx ; EC No. : 200-857-2; CAS No. : 75-28-5

Weight fraction : $\geq 1 - < 5$ %
Classification 1272/2008 [CLP] : Flam. Gas 1 ; H220 Press. Gas (Liq.) ; H280

(R)-P-MENTHA-1,8-DIENE ; REACH registration No. : 01-2119529223-47-xxxx ; EC No. : 227-813-5; CAS No. : 5989-27-5

Weight fraction : $\geq 0,1 - < 0,5$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

No special measures are necessary.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

None

5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

None

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

None

6.2 Environmental precautions

None

6.3 Methods and material for containment and cleaning up

None

6.4 Reference to other sections

None

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

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Measures to prevent fire

Fire class : C

7.2 Conditions for safe storage, including any incompatibilities

Hints on joint storage

Storage class (TRGS 510) : 2B
Recommended storage temperature 5 - 25 °C

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

Hydrocarbons, C10- C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9)

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 600 mg/m³
Version :

BUTANE ; CAS No. : 106-97-8

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 1000 ppm / 2400 mg/m³
Peak limitation : 4(II)
Version : 04.11.2017

PROPANE ; CAS No. : 74-98-6

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 1000 ppm / 1800 mg/m³
Peak limitation : 4(II)
Version : 04.11.2017

ISOBUTANE ; CAS No. : 75-28-5

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 1000 ppm / 2400 mg/m³
Peak limitation : 4(II)
Version : 04.11.2017

(R)-P-MENTHA-1,8-DIENE ; CAS No. : 5989-27-5

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 5 ppm / 28 mg/m³
Peak limitation : 4 (II)
Remark : H, Sh, Y
Version : 04.11.2017

8.2 Exposure controls

Personal protection equipment

Skin protection

Hand protection

Suitable material : NBR (Nitrile rubber), 0,4mm, >8h; FKM (fluoro rubber), 0,7mm, >8h;

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : gaseous

Colour : colourless

Odour : perfumed

Safety relevant basis data

Freezing point :	(1013 hPa)	<	-13 °C	
Initial boiling point and boiling range :	(1013 hPa)		not determined	
Decomposition temperature :	(1013 hPa)		not determined	
Flash point :		<	0 °C	closed cup
Ignition temperature :			not determined	
Lower explosion limit :			not determined	

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Upper explosion limit :			not determined		
Density :	(20 °C)	approx.	0,7	g/cm ³	Pyknometer
Water solubility	(20 °C)		immiscible		
pH :			not applicable		
log P O/W :			not determined		
Odour threshold :			not determined		
Vapourisation rate :			not determined		
VOC-FR			not applicable		

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (Hydrocarbons, C10- C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9))
Exposure route :	Oral
Effective dose :	> 5000 mg/kg
Parameter :	LD50 ((R)-P-MENTHA-1,8-DIENE ; CAS No. : 5989-27-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	4400 mg/kg

Acute dermal toxicity

Parameter :	LD50 (Hydrocarbons, C10- C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; CAS No. : (64742-48-9))
Exposure route :	Dermal
Effective dose :	> 5000 mg/kg
Parameter :	LD50 ((R)-P-MENTHA-1,8-DIENE ; CAS No. : 5989-27-5)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 5000 mg/kg

Acute inhalation toxicity

Parameter :	LC50 (BUTANE ; CAS No. : 106-97-8)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	659 g/m ³
Parameter :	LC50 (BUTANE ; CAS No. : 106-97-8)
Exposure route :	Inhalation
Species :	Mouse
Effective dose :	680 g/m ³
Parameter :	LC50 (ISOBUTANE ; CAS No. : 75-28-5)
Exposure route :	Inhalation
Species :	Rat

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Effective dose : 57 pph

SECTION 12: Ecological information

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

None

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

Waste code (91/689/EEC) : 16 05 04*

SECTION 14: Transport information

14.1 UN number

UN 1950

14.2 UN proper shipping name

Land transport (ADR/RID)

AEROSOLS

Sea transport (IMDG)

AEROSOLS

Air transport (ICAO-TI / IATA-DGR)

AEROSOLS, FLAMMABLE

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 2
Classification code : 5F
Hazard identification number (Kemler No.) : 23
Tunnel restriction code : D
Special provisions : LQ 11 · E 0
Hazard label(s) : 2.1

Sea transport (IMDG)

Class(es) : 2.1
EmS-No. : F-D / S-U
Special provisions : LQ 11 · E 0
Hazard label(s) : 2.1

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 2.1
Special provisions : E 0
Hazard label(s) : 2.1

14.4 Packing group

14.5 Environmental hazards

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Land transport (ADR/RID) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user
None

SECTION 15: Regulatory information

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

National regulations

Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to VwVwS

Other regulations, restrictions and prohibition regulations

VOCV-Regulation (CH)

Maximum VOC content (Switzerland) : 91,2 Wt % according to VOCV

15.2 Chemical safety assessment
No information available.

SECTION 16: Other information

16.1 Indication of changes

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

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

No information available.

16.5 Relevant H- and EUH-phrases (Number and full text)

H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
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.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.