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

Trade name: Lithofin MN Power-Clean

Revision date: 30.01.2019 **Version (Revision):** 4.0.2 (4.0.1)

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

1.1 Product identifier

Lithofin MN Power-Clean

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

Mixture Washing and cleaning products, alkaline

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

Distributor: GranQuartz

Street: 4963 South Royal Atlanta Drive
Postal code/city: USA Tucker, GA 30084
Telephone: +1 770 621-9777
Telefax: +1 770 621-9771
Contact: Technical Department

E-mail: admin@granquartz.com

Emergency telephone number:

+1 770 621-9777

(Only available during office hours)

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]

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

Met. Corr. 1 ; H290 - Corrosive to metals : Category 1 ; May be corrosive to metals.

Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Remark

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

2.2 Label elements

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

Hazard pictograms

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

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Corrosion (GHS05)

Signal word

Danger

Hazard components for labelling

Propylheptanolethoxilate; CAS No.: 160875-66-1

Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl) dimethyl, ethoxylated, chlorides; CAS No.: 1554325-20-0

Hazard statements

H290 May be corrosive to metals. H318 Causes serious eye damage.

Precautionary statements

P102 Keep out of reach of children.
P234 Keep only in original packaging.
P280 Wear eye protection/face protection.

P337+P313 If eye irritation persists: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with local and national regulations.

Other labelling

2.3 Other hazards

Adverse human health effects and symptoms

Due to its pH value (see section 9), irritation of the skin and eyes cannot be ruled out.

2.4 Additional information

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

BUTYL CELLOSOLVE; REACH registration No.: 01-2119475108-36-xxxx; EC No.: 203-905-0; CAS No.: 111-76-2

Weight fraction : \geq 1 - < 5 %

Classification 1272/2008 [CLP]: Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315

Eye Irrit. 2; H319

(2-METHOXYMETHYLETHOXY)PROPANOL; REACH registration No.: 01-2119450011-60-xxxx; EC No.: 252-104-2; CAS No.:

34590-94-8

Weight fraction : \geq 1 - < 5 %

Classification 1272/2008 [CLP] : Substance with a common (EC) occupational exposure limit value.

Propylheptanolethoxilate ; EC No. : 605-233-7; CAS No. : 160875-66-1

Weight fraction : $\geq 1 - < 3 \%$

Classification 1272/2008 [CLP] : Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl) dimethyl, ethoxylated, chlorides; EC No.: 810-152-7; CAS

No.: 1554325-20-0

Weight fraction : $\geq 1 - < 3 \%$

 $\hbox{Classification 1272/2008 [CLP]:} \qquad \hbox{Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 }$

Additional information

All ingredients of this mixture are (pre)registered according to REACH regulation.

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

SECTION 4: First aid measures

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

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4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Do not wash with: Cleaning agent, acidic Cleaning agent, alkaline Solvents/Thinner

After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye.

After ingestion

Call a physician immediately. Keep at rest. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

Self-protection of the first aider

First aider: Pay attention to self-protection!

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

Notes for the doctor

Treat symptomatically.

Special treatment

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray ABC-powder Foam

Unsuitable extinguishing media

Full water jet Strong water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide Carbon dioxide (CO2)

5.3 Advice for firefighters

Use suitable breathing apparatus.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (refer to section 8). Provide adequate ventilation. Remove persons to safety.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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6.3 Methods and material for containment and cleaning up

For cleaning up

Suitable material for taking up: Universal binder

Clean contaminated articles and floor according to the environmental legislation. Retain contaminated washing water and dispose it. Dispose of waste according to applicable legislation.

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

When using do not eat, drink, smoke, sniff.

Protective measures

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists Skin contact Eye contact Wear personal protection equipment (refer to section 8). Always close containers tightly after the removal of product. Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

Measures to prevent fire

The product is not: Flammable Usual measures for fire prevention.

Fire class : - Shake well before use nein

Advices on general occupational hygiene

P362+P364 - Take off contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep/Store only in original container. The floor should be leak tight, jointless and not absorbent. Ensure adequate ventilation of the storage area.

Hints on joint storage

Storage class (TRGS 510): 8B Protect from frost nein

Recommended storage temperature 5 - 25 °C

Further information on storage conditions

Keep locked up and out of reach of children. Keep container tightly closed in a cool, well-ventilated place.

7.3 Specific end use(s)

Recommendation

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

BUTYL CELLOSOLVE ; CAS No. : 111-76-2

Limit value type (country of origin) : TRGS 900 (D) Limit value : 20 ppm $\,/\,$ 98 mg/m³

Peak limitation: 4(II)
Remark: H,Y
Version: 01.03.2018
Limit value type (country of origin): TRGS 903 (D)

Parameter: Butoxy acetic acid / Urine (U) / At long term exposure: after several previous shifts

Limit value : 100 mg/l

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Version : 01.03.2018 Limit value type (country of origin) : TRGS 903 (D)

Butoxy acetic acid / Urine (U) / End of exposure or end of shift; At long term

Parameter: exposure: after several previous shifts

Limit value: 150 mg/g Kr Version: 01.03.2018 Limit value type (country of origin): STEL (EC)

Limit value: 50 ppm / 246 mg/m³

Remark:

 $\label{eq:Version: 31.01.2018} \mbox{Limit value type (country of origin)}: \mbox{ TWA (EC)}$

Limit value: 20 ppm / 98 mg/m³

Remark:

Version: 31.01.2018

(2-METHOXYMETHYLETHOXY)PROPANOL; CAS No.: 34590-94-8

Limit value type (country of origin) : TRGS 900 (D) Limit value : 50 ppm $\,$ / $\,$ 310 mg/m³

 $\begin{array}{ll} \mbox{Peak limitation:} & \mbox{1(I)} \\ \mbox{Version:} & \mbox{01.03.2018} \\ \mbox{Limit value type (country of origin):} & \mbox{TWA (EC)} \\ \end{array}$

Limit value: 50 ppm / 308 mg/m³

Remark: H
Version: 31.01.2018

8.2 Exposure controls

Appropriate engineering controls

Ensure adequate ventilation of the storage area.

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment

Eye/face protection

Suitable eye protection

Eye glasses with side protection goggles

Required properties

DIN EN 166

Skin protection

Hand protection

Suitable gloves type: Gloves with long cuffs

Suitable material: Data apply to the main component. Butyl caoutchouc, 0,5mm, >8h; FKM (fluoro rubber), 0.7mm, >8h:

Recommended glove articles: Manufacturer KCL GmbH/Eichenzell-Germany; Ansell/Yarra City-Australia Or comparable articles from other companies.

Additional hand protection measures: Check leak tightness/impermeability prior to use.

Remark: Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Barrier creams are not substitutes for body protection.

Body protection

Protective clothing.

Suitable protective clothing: Chemical protection clothing Chemical resistant safety shoes

Required properties: alkali-resistant.

Protective clothing. : DIN EN ISO 20345 DIN EN 13034 DIN EN 14605

footwear: DIN EN 14404

Remark: Barrier creams are not substitutes for body protection.

Respiratory protection

Usually no personal respirative protection necessary. Respiratory protection necessary at: insufficient ventilation

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aerosol or mist formation. high concentrations spray application

Suitable respiratory protection apparatus

Combination filtering device (EN 14387) Half-face mask (DIN EN 140) ABEK-P1

Domark

Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

General health and safety measures

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to reuse. Wash hands before breaks and after work. Apply skin care products after work. Do not breathe gas/fumes/vapour/spray.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Liquid
Colour: light yellow
Odour: perfumed
Safety relevant basis data

(1013 hPa)	approx.	-4	°C	
(1013 hPa)	approx.	97	°C	
(1013 hPa)		not determined		
		not applicable		closed cup (EN ISO 3679)
		not determined		
		No		UN Test L2:Sustained combustibility test
		not determined		
		not determined		
(50 °C)	<	3000	hPa	
(20 °C)		1,01	g/cm³	Pyknometer (DIN EN ISO 2811-1)
(20 °C)	<	3	%	Test L1: Solvent separation test (UN)
(20 °C)		miscible		
	approx.	11		DIN 19268
		not determined		(Mixture)
(23 ℃)	approx.	13	S	ISO cup 4 mm (DIN EN ISO 2431)
		not determined		
	(1013 hPa) (1013 hPa) (1013 hPa) (50 °C) (20 °C) (20 °C) (20 °C)	(1013 hPa) approx. (1013 hPa) (50 °C) < (20 °C) (20 °C) < (20 °C) (20 °C) approx.	(1013 hPa) approx. 97 (1013 hPa) not determined not applicable not determined	(1013 hPa) approx. 97 °C (1013 hPa) not determined not applicable not determined No not determined (50 °C) < 3000 hPa (20 °C) 1,01 g/cm³ (20 °C) < 3 % (20 °C) miscible approx. 11 not determined 11 not determined (23 °C) approx.

(* VOC-EC = "Volatile organic compound (VOC)" means any organic compound having an initial boiling point less than or equal to 250° C measured at a standard pressure of 101,3 kPa; VOC-value in g/L)

approx.

not determined

not applicable

9,9

Wt %

9.2 Other information

Vapourisation rate:

VOC content-EC

VOC-France

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

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10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Stable under recommended storage and handling conditions.

10.5 Incompatible materials

The product develops hydrogen in an aqueous solution in contact with metals.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

There are no data available on the preparation/mixture itself. Data apply to the main component.

Acute oral toxicity

Parameter: LD50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)

Exposure route: Oral
Species: Rat
Effective dose: 1300 mg/kg
Method: OECD 401

Parameter: LD50 ((2-METHOXYMETHYLETHOXY)PROPANOL; CAS No.: 34590-94-8)

Exposure route: Oral
Species: Rat
Effective dose: > 5000 mg/kg
Method: OECD 401

Parameter: LD50 (Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl) dimethyl,

ethoxylated, chlorides ; CAS No. : 1554325-20-0)

Exposure route : Oral Species : Rat

Effective dose : > 300 - 2000 mg/kg

Parameter: LD50 (Propylheptanolethoxilate ; CAS No. : 160875-66-1)

Exposure route : Oral Species : Rat

Effective dose: > 300 - 2000 mg/kg

Acute dermal toxicity

Parameter: LC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)

Exposure route: Dermal
Species: Guinea pig
Effective dose: > 2000 mg/l
Method: OECD 402

Parameter: LD50 ((2-METHOXYMETHYLETHOXY)PROPANOL; CAS No.: 34590-94-8)

Exposure route: Dermal
Species: Rabbit
Effective dose: 9510 mg/kg
Method: OECD 402

Parameter: LD50 (Propylheptanolethoxilate; CAS No.: 160875-66-1)

Exposure route: Dermal
Species: Rat
Effective dose: > 2000 mg/kg

Acute inhalation toxicity

Parameter: LC50 ((2-METHOXYMETHYLETHOXY)PROPANOL; CAS No.: 34590-94-8)

Exposure route: Inhalation Species: Rat

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Effective dose : 3,35 mg/l Exposure time : 7 h

Parameter: LD50 (Propylheptanolethoxilate ; CAS No. : 160875-66-1)

Exposure route: Inhalation
Species: Rat
Effective dose: > 20,1 mg/l

Specific symptoms in animal studies

There are no data available on the preparation/mixture itself.

Irritant and corrosive effects

Assessment/classification

Causes serious eye damage. Causes severe burns.

Sensitisation

There are no data available on the preparation/mixture itself.

Repeated dose toxicity (subacute, subchronic, chronic)

There are no data available on the preparation/mixture itself.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

There are no data available on the preparation/mixture itself.

Other information

No indication of human carcinogenicity.

Germ cell mutagenicity

There are no data available on the preparation/mixture itself.

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

There are no data available on the preparation/mixture itself.

Other information

No indications of human reproductive toxicity exist.

Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

STOT-single exposure

See SECTION 2.1 (classification).

STOT-repeated exposure

See SECTION 2.1 (classification).

Aspiration hazard

See SECTION 2.1 (classification).

SECTION 12: Ecological information

12.1 Toxicity

Data apply to the main component. There are no data available on the preparation/mixture itself.

Aquatic toxicity

Chronic (long-term) fish toxicity

Parameter: NOEC (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)

Species: Fish
Effective dose: > 100 mg/l
Exposure time: 21 d

Chronic (long-term) daphnia toxicity

Parameter: NOEC (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)

Species: Daphnia
Effective dose: 100 mg/l
Exposure time: 21 d
Method: OECD 211

Acute (short-term) algae toxicity

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Parameter: EC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)

Species: Daphnia
Effective dose: 1550 mg/l
Exposure time: 48 h
Method: OECD 202

Parameter: EC50 ((2-METHOXYMETHYLETHOXY)PROPANOL; CAS No.: 34590-94-8)

Species: Daphnia
Effective dose: 1919 mg/l
Exposure time: 48 h

Parameter: EC50 (Quaternary ammonium compounds, C12-14-alkyl(hydroxyethyl) dimethyl,

ethoxylated, chlorides; CAS No.: 1554325-20-0)

Species: Daphnia
Effective dose: > 1 - 10 mg/l
Exposure time: 48 h

Parameter: EC50 (Propylheptanolethoxilate ; CAS No.: 160875-66-1)

Species : Daphnia Effective dose : > 10 - 100 mg/l

Exposure time: 48 h

Effects in sewage plants

Observe local regulations concerning effluent treatment. Before discharge into sewage plants the product normally needs to be neutralised.

12.2 Persistence and degradability

There are no data available on the preparation/mixture itself.

Biodegradation

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential

There are no data available on the preparation/mixture itself.

12.4 Mobility in soil

There are no data available on the preparation/mixture itself.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

There are no data available on the preparation/mixture itself.

12.7 Additional ecotoxicological information

Additional information

The product has not been tested.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose according to legislation.

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

Waste code (EWC/AVV): 07 06 08*

Waste code packaging

Waste code packaging: 15 01 10*

Waste treatment options

29/35 - Do not empty into drains; dispose of this material and its container in a safe way. Delivery to an approved waste disposal company.

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Appropriate disposal / Package

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

13.2 Additional information

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

SECTION 14: Transport information

14.1 UN number

UN 1719

14.2 UN proper shipping name

Land transport (ADR/RID)

CAUSTIC ALKALI LIQUID, N.O.S. (Glutamic acid, N,N-diacetic acid, tetrasodium salt)

Sea transport (IMDG)

CAUSTIC ALKALI LIQUID, N.O.S. (Glutamic acid, N,N-diacetic acid, tetrasodium salt)

Air transport (ICAO-TI / IATA-DGR)

CAUSTIC ALKALI LIQUID, N.O.S. (Glutamic acid, N,N-diacetic acid, tetrasodium salt)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es): 8
Classification code: C5
Hazard identification number (Kemler
No.): 80
Tunnel restriction code: E
Special provisions: LQ 5 | · E 1
Hazard label(s): 8

Sea transport (IMDG)

Class(es): 8 **EmS-No.:** F-A / S-B

Special provisions : LQ 5 | · E 1 · IMDG-Code segregation group 18 - Alkalis

Hazard label(s): 8
Air transport (ICAO-TI / IATA-DGR)

Class(es): 8
Special provisions: E1
Hazard label(s): 8

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID): No Sea transport (IMDG): No

Air transport (ICAO-TI / IATA-DGR): No

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not required.

SECTION 15: Regulatory information

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

EU legislation

REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (clp) Directive 2008/98/EC of the European Parliament and of the Council on waste (2000/532/EC) EN 2:1992 (DIN EN 2:2005-01)

Authorisations and/or restrictions on use

Restrictions on use

Use restriction according to REACH annex XVII, no.: None, if handled according to order.

Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Other regulations (EU)

Regulation (EC) No. 648/2004 (Detergents regulation)

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work. (Directive 2000/39/EC, Directive 2006/15/EC, Directive 2009/161/EC)

REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the export and import of hazardous chemicals [PIC-Regulation]

REGULATION (EU) No 98/2013 on the marketing and use of explosives precursors: Not applicable.

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer

Not applicable.

Contains the following substances that deplete the ozone layer: -

Regulation (EC) No 850/2004 [POP-Regulation]

Not applicable

Name of the persistent organic pollutant (POP): -

National regulations

Observe in addition any national regulations!

Germany:

TRGS 400 (Risk assessment for activities involving hazardous substances)

TRGS 500 (Protective measures)

TRGS 510 (Storage of hazardous substances in non-stationary containers)

TRGS 555 (Working instruction and information for workers)

Water hazard class (WGK)

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

Other regulations, restrictions and prohibition regulations

Switzerland

VOCV-Regulation

Maximum VOC content (Switzerland): 6 Wt % according to VOCV

15.2 Chemical safety assessment

For this substance/mixture a chemical safety assessment has not been carried out.

15.3 Additional information

SECTION 16: Other information

16.1 Indication of changes

07. Hints on joint storage - Storage class

16.2 Abbreviations and acronyms

ABC-Pulver Extinguishing powder for fire class A, B and C

ABEK-P1 combination filter

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

AVV Abfallverzeichnis-Verordnung (Waste Regulation)

AWSV Ordinance on facilities for the handling of substances hazardous to water

BGR BG rules and regulations

ca. circa

CAS Chemical Abstract Service

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CLP classification, labelling and packaging

CMR Carcinogen, mutagen or toxic for reproduction

DIN German Institute for Standardization

DNEL Derived No-Effect Level

EAK/EWC/EAC/CWR/CER European Waste Catalogue

EC50 / CE50 Effective Concentration 50%

EG / EC / CE European Community

EN European Standard

EUH supplemental hazard statement of the european union

GefStoffV Gefahrstoffverordnung (Hazardous Substances Ordinance)

GHS / SGH Globally Harmonised System

H-Sätze hazard statements

IATA-DGR International Air Transport Association-Dangerous Goods Regulations

IBC-Code International Code for the Construction and Equipment of Ships carrying Dangerous

Chemicals in Bulk

ICAO-TI International Civil Aviation Organization-Technical Instructions

IMDG-Code International Maritime Dangerous Goods Code ISO International Organization for Standardization

LC50 / CL50 Lethal Concentration 50%

LD50 / DL50 Lethal Dose 50%

log P O/W Partition coefficient n-octanol/water

MARPOL International Convention for the Prevention of Pollution from Ships (marine pollution)

NOAEL (DSET) No observed adverse effect level NOEC (CSEO) No observed effect concentration

Nr. Number

OECD Organisation for Economic Co-operation and Development

PBT persistent, bioaccumulative and toxic

pH Potentia hydrogenii PIC prior informed consent

PNEC Predicted No-Effect Concentration
POP Persistent organic pollutants
P-Sätze precautionary statements

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID International Carriage of Dangerous Goods by Rail

STEL / LECT short-term exposure limit

TRGS Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)

TWA / MPT time-weighted average

UN/ONU United Nations

VOC/COV/VOS/LZO Volatile Organic Compound

VOCV Ordinance on the Incentive Tax on Volatile Organic Compounds (SR 814.018)

vPvB very persistent and very bioaccumulative
WGK Wassergefährdungsklasse (Water hazard class)

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu. For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

16.3 Key literature references and sources for data

Regulation (EC) No 1272/2008 (GHS)

ECHA: Registered substances (https://echa.europa.eu/information-on-chemicals/registered-substances)

REACH Art. 59: -Candidate List of substances of very high concern for Authorisation

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

Trade name: Lithofin MN Power-Clean

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(https://www.echa.europa.eu/candidate-list-table)

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

Hazard statements for physical hazards: On basis of test data.

Hazard statements for health hazards: Calculation method.

Hazard statements for environmental hazards: Calculation method.

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

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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.

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