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

1.1 Product identifier
Lithofin MPP

1.2 Relevant identified uses of the substance or mixture and uses advised against
No information available.

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 Directive 67/548/EEC or 1999/45/EC
Harmful in contact with skin and if swallowed.
Xn ; R 21/22

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acute Tox. 4 ; H312 - Acute toxicity (dermal) : Category 4 ; Harmful in contact with skin.
Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.

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

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

2.2 Label elements
Labelling (67/548/EEC or 1999/45/EC)
Hazard symbols and hazard statements of dangerous substances and preparations

Xn ; Harmful

Hazard components for labelling
OXALIC ACID ; CAS No. : 144-62-7

R-phrases
21/22 Harmful in contact with skin and if swallowed.
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Lithofin MPP
Revision date: 20.02.2015
Print date: 05.03.2015

S-phrases
35 This material and its container must be disposed of in a safe way.
51 Use only in well-ventilated areas.
36/37 Wear suitable protective clothing and gloves.

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

Hazard pictograms

Exclamation mark (GHS07)
Signal word
Warning

Hazard components for labelling
OXALIC ACID ; CAS No. : 144-62-7

Hazard statements
H302+H312 Harmful if swallowed or in contact with skin.

Precautionary statements
P102 Keep out of reach of children.
P264 Wash ... thoroughly after handling.
P270 Do no eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.
P501 Dispose of contents/container to ....

2.3 Other hazards
Adverse human health effects and symptoms
Due to its pH value (see chapter 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

Description
Polishes and wax blends

Hazardous ingredients
OXALIC ACID ; EC No. : 205-634-3; CAS No. : 144-62-7
Weight fraction : 55 - 60 %
Classification 67/548/EEC : Xn ; R21/22
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H312

Additional information
All ingredients of this mixture are (pre)registered according to REACH regulation.
Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

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.

In case of inhalation
Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. 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
Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Lithofin MPP
Revision date: 20.02.2015
Print date: 05.03.2015

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**
No information available.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**
- Suitable extinguishing media
  - Water alcohol resistant foam
  - ABC-powder
  - Carbon dioxide (CO2)
  - Water spray
- 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. Coordinate 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 (see chapter 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.

**6.3 Methods and material for containment and cleaning up**
**For cleaning up**
- Suitable material for taking up: Universal binder

**Other information**
Clear spills immediately.

**6.4 Reference to other sections**
Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

**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 (see chapter 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.

**Measures to prevent fire**
The product is not: Flammable
Usual measures for fire prevention.

**Fire class:** A
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.

Hints on joint storage
Storage class (TRGS 510) : 12
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

OXALIC ACID ; CAS No. : 144-62-7

Limit value type (country of origin) : TRGS 900 (D)
Parameter : E: inhalable fraction
Limit value : 1 mg/m³
Peak limitation : 1(I)
Remark : H
Version : 01.09.2012
Limit value type (country of origin) : TWA (EC)
Limit value : 1 mg/m³
Version : 07.02.2006

DNEL/DMEL and PNEC values

DNEL/DMEL
Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) (OXALIC ACID ; CAS No. : 144-62-7)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 1,14 mg/kg/d
Limit value type : DNEL/DMEL (Worker, Systemic) (OXALIC ACID ; CAS No. : 144-62-7)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : 2,29 mg/kg/d
Limit value type : DNEL/DMEL (Worker, Systemic) (OXALIC ACID ; CAS No. : 144-62-7)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : 4,03 mg/m³

PNEC
Limit value type : PNEC aquatic, freshwater (OXALIC ACID ; CAS No. : 144-62-7)
Limit value : 0,1622 mg/l
Limit value type : PNEC aquatic, intermittent release (OXALIC ACID ; CAS No. : 144-62-7)
Limit value : 1,622 mg/l
Limit value type : PNEC aquatic, marine water (OXALIC ACID ; CAS No. : 144-62-7)
Limit value : 0,01622 mg/l
Limit value type : PNEC sewage treatment plant (STP) (OXALIC ACID ; CAS No. : 144-62-7)
Limit value : 1550 mg/l

8.2 Exposure controls

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: NBR (Nitrile rubber), 0.4mm, >8h; 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.

Body protection
Protective clothing.
Suitable protective clothing: Chemical protection clothing Chemical resistant safety shoes
Required properties: acid-resistant.
Recommended protective clothing articles: DIN EN ISO 20345 DIN EN 13034 DIN EN 14605 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 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
Remark: 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. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Apply skin care products after work.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance: Powder
Colour: white
Odour: stinging
Safety relevant basis data
Freezing point: (1013 hPa) not applicable
Boiling temperature/boiling range: (1013 hPa) not applicable
Decomposition temperature: (1013 hPa) > 110 °C
Flash point: not applicable closed cup
Ignition temperature: not determined
Sustaining combustion: No UN Test L2:Sustained combustibility test
Lower explosion limit: not determined
Upper explosion limit: not determined
Vapour pressure: (50 °C) < 3000 hPa
Density: (20 °C) ca. 0.8 g/cm³ Pyknometer
Solvent separation test: (20 °C) < 3 %
Water solubility: (20 °C) partially miscible
pH value: not applicable
log P O/W: not determined
Flow time: (23 °C) ISO cup 4 mm
Odour threshold: not applicable
Vapourisation rate: VOC-FR

9.2 Other information
None

SECTION 10: Stability and reactivity
10.1 Reactivity
No information available.

10.2 Chemical stability
The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid
No hazardous reaction when handled and stored according to provisions.

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
Acute oral toxicity
Parameter : LD50 (OXALIC ACID; CAS No. : 144-62-7)
Exposure route : Oral
Species : Rat
Effective dose : 375 mg/kg
Acute dermal toxicity
Parameter : LD50 (OXALIC ACID; CAS No. : 144-62-7)
Exposure route : Dermal
Species : Rabbit
Effective dose : 20000 mg/kg

Specific symptoms in animal studies
No data available

Irritant and corrosive effects
Assessment/classification
Causes serious eye damage. Causes severe burns.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Carcinogenicity
No indication of human carcinogenicity.

Germ cell mutagenicity/Genotoxicity
In vivo mutagenicity
Other information
No experimental indications of in vivo mutagenicity exist.

Human toxicological data
Other information
No indications of human germ cell mutagenicity exist.

Reproductive toxicity
Practical experience/human evidence
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.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity
Acute (short-term) fish toxicity
Parameter : LC50 (OXALIC ACID; CAS No. : 144-62-7)
Species : Fish
Effective dose : 160 mg/l
Exposure time : 48 h

Acute (short-term) daphnia toxicity
Parameter : EC50 (OXALIC ACID; CAS No.: 144-62-7)  
Species : Daphnia  
Effective dose : 162.2 mg/l  
Exposure time : 48 h  
Method : OECD 202  

**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
No data available

### 12.3 Bioaccumulative potential
No data available

### 12.4 Mobility in soil
No data available

### 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
No data available

### 12.7 Further ecological information
**Additional information**
The product has not been tested.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods
Dispose according to legislation.

#### Product/Packaging disposal
- Waste codes/waste designations according to EWC/AVV
  - Waste code product
    - Waste code (91/689/EEC) : 06 01 06*
- Waste treatment options
  - **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
No dangerous goods in sense of this transport regulation.

### 14.2 UN proper shipping name
No dangerous goods in sense of this transport regulation.

### 14.3 Transport hazard class(es)
No dangerous goods in sense of this transport regulation.

### 14.4 Packing group
No dangerous goods in sense of this transport regulation.

### 14.5 Environmental hazards
No dangerous goods in sense of this transport regulation.

### 14.6 Special precautions for user
None

## SECTION 15: Regulatory information
Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations
Observe in addition any 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) : < 3 Wt % according to VOCV

Chemical Safety Assessment
No information available.

SECTION 16: Other information

Indication of changes
None

Abbreviations and acronyms
None

Key literature references and sources for data
None

Relevant R-, H- and EUH-phrases (Number and full text)
H302+H312 Harmful if swallowed or in contact with skin.
R21/22 Harmful in contact with skin and if swallowed.

Training advice
None

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.