

1 Identification of substance:

Product details:

Trade name: Lithofin MN Builders' Clean

Application of the substance / the preparation Cleaning agent/ Cleaner

Distributor:

GranQuartz, L. P.
P.O. Box 2206
Tucker, GA 30085-2206/USA

Information Department:

see above

Emergency Information:

information department

24-Hour Emergency Telephone Number:

1-800-255-3924 (USA & Canada) or 813-248-0585

2 Composition/Data on components:

Chemical characterization

Description:

Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

7664-38-2 phosphoric acid	10-25 %
RTECS: TB 6300000	
7647-01-0 hydrogen chloride	2.5-10 %
RTECS: MW 9620000	
77-92-9 citric acid	< 2.5 %
RTECS: GE 7350000	
110-65-6 but-2-yne-1,4-diol	< 2.5 %
RTECS: ES 0525000	

TSCA

7664-38-2 phosphoric acid
7732-18-5 water, distilled, conductivity or of similar purity
7647-01-0 hydrogen chloride
77-92-9 citric acid

3 Hazards identification

Hazard description: Irritant

Information pertaining to particular dangers for man and environment

Irritating to eyes and skin.

NFPA ratings (scale 0-4)

Health = 1

Fire = 0

Reactivity = 0

Special: Acid

Additional information:

This preparation is despite of the extreme ph-value of < 2 only classified as irritant, since there are special limits for the corrosive substances contained according to annex I of Directive 67/548/EEC.

4 First aid measures

General information

Immediately remove any clothing soiled by the product.

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact

Take-off and remove wetted clothing, shoes and stocking immediately.

Rinse affected parts of the body with plenty of water.

Seek medical treatment.

After eye contact

First check the victim for contact lenses and remove if present.

Rinse the eyes with open eyelids for 10 - 15 minutes with water. Then consult a doctor or better an eye specialist.

After swallowing

Do not induce vomiting

Drink plenty of water, but never give anything to an unconscious person.

Seek medical treatment.

Information for doctor

Treatment Symptomatic treatment

5 Fire fighting measures

Suitable extinguishing agents

The product is not combustible and does not support combustion.

Use fire fighting measures that suit the environment.

Special hazards caused by the material, its products of combustion or resulting gases:

No hazards known

Protective equipment:

Wear self-contained respiratory protective device.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Person-related safety precautions:

Ensure adequate ventilation

Wear protective clothing.

Keep unprotected persons away.

Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

7 Handling and storage

Handling

Information for safe handling:

Use only in well ventilated areas.

Avoid contact with eyes and skin.

Avoid inhalation of vapours.

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Information about protection against explosions and fires:

No special measures required.

Storage

Requirements to be met by storerooms and receptacles:

Store receptacles tightly closed at a cool and dry place with sufficient ventilation

Provide acid-resistant floor.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from feed.

Do not store together with alkalis (caustic solutions).

Store away from metals.

Further information about storage conditions:

Keep receptacle tightly sealed.

Storage class 8 Corrosive products (VCI)

8 Exposure controls and personal protection

Additional information about design of technical systems:

No further data; see item 7.

Components with limit values that require monitoring at the workplace:

7664-38-2 phosphoric acid

PEL: 1 mg/m³

REL: short-term value: 3 mg/m³
long-term value: 1 mg/m³

TLV: short-term value: 3 mg/m³
long-term value: 1 mg/m³

7647-01-0 hydrogen chloride

PEL: short-term value: C 7 mg/m³, C 5 ppm

REL: short-term value: C 7 mg/m³, C 5 ppm

TLV: short-term value: C 2.98 mg/m³, C 2 ppm

Additional information:

The lists that were valid during the creation were used as basis.

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Do not eat or drink while working.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

The usual protective measures based on the application have to be followed.

All protective equipment used shall be according to 29 CFR.1910 Subpart I Personal Protective Equipment

Breathing equipment:

Not necessary if room is well-ventilated.

Use suitable respiratory protective device only when aerosol or mist is formed.

NIOSH/MSHA-approved respirator

Protection of hands:

Acid resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of gloves

Polychloropren rubber (CR)

Butyl rubber, BR

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Nitrile rubber, NBR

Fluorocarbon rubber (FKM)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles.

If splashing of the product is possible wear full face protection.

Body protection: Acid resistant protective clothing**9 Physical and chemical properties:****General Information****General Information****Form:** Liquid**Color:** Red**Odor:** Pleasant

	<u>Value/Range</u>	<u>Unit</u>	<u>Method</u>
Change in condition			
Melting point/Melting range:	undetermined		
Boiling point/Boiling range:	> 90 °C		
Flash point:	Not applicable		
Auto igniting:	Product is not selfigniting.		
Danger of explosion:	Product does not present an explosion hazard.		
Density:	at 20 °C ~ 1.1 g/cm ³		
Solubility in / Miscibility with Water:	Miscible		
pH-value:	at 20° C < 2 in delivery state		

10 Stability and reactivity**Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

Dangerous reactions Reacts with metals forming hydrogen**Dangerous products of decomposition:**

No dangerous decomposition products known

11 Toxicological information**Acute toxicity:****LD/LC50 values that are relevant for classification:**

No toxicity data are available for the product itself.

Primary irritant effect:**on the skin:** Caustic effect on skin and mucous membranes.**on the eye:** Caustic effect**Sensitization:** No sensitizing effects known.**Additional toxicological information:**

The product shows the following dangers according to internationally approved calculation methods for preparations: Irritant

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Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information:**Ecotoxicological effects:****Acquatic toxicity:**

Presently there are no ecotoxicological values available.

Remark: Harmful effects possible due to shift of pH value.

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Danger to drinking water is possible if large quantities leak into the ground or into water course.

13 Disposal considerations**Product:****Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal according to instructions of local authorities.

Uncleaned packagings:**Recommendation:**

Disposal must be made according to official regulations.

14 Transport information**DOT regulations:**

Hazard class: 8

Identification number: UN1760

Packing group: III

Proper shipping name (technical name):

CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID, LIQUID, HYDROCHLORIC ACID)

Label: 8

Land transport ADR/RID (cross-border)

ADR/RID class: 8 (C9) Corrosive substances

Danger code (Kemler): 8

UN-Number: 1760

Packaging group: III

Description of goods: 1760 CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID, LIQUID, HYDROCHLORIC ACID)

Maritime transport IMDG:

IMDG Class: 8

UN Number: 1760

Label: 8

Packaging group: III

EMS Number: F-A,S-B

Marine pollutant: No

Propper shipping name: CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID, LIQUID, HYDROCHLORIC ACID)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 8

UN/ID Number: 1760

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Label 8
Packaging group: III
Proper shipping name: CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID, LIQUID, HYDROCHLORIC ACID)

15 Regulations

Carcinogenicity categories

EPA (Environmental Protection Agency)

void

IARC (International Agency for Research on Cancer)

7647-01-0 hydrogen chloride: 3

67-63-0 propan-2-ol: 3

NTP (National Toxicology Program)

void

TLV (Threshold Limit Value established by ACGIH)

void

MAK (German Maximum Workplace Concentration)

void

NIOSH-Ca (National Institute for Occupational Safety and Health)

void

OSHA-Ca (Occupational Safety & Health Administration)

void

Markings according to EU guidelines:

Code letter and hazard designation of product: Irritant

Risk phrases: Irritating to eyes and skin.

Safety phrases:

Keep out of the reach of children.

Avoid contact with eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable gloves.

If swallowed, seek medical advice immediately and show this container or label.

If swallowed, rinse mouth with water (only if the person is conscious)

Regulation or reporting requirements USA

Sara section 355

7647-01-0 hydrogen chloride

Sara section 313

7664-38-2 phosphoric acid

7647-01-0 hydrogen chloride

Prop. 65 - Cancer

not listed

Prop. 65 - Repr. tox.

not listed

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS:

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