

1 Identification of substance:

Product details:

Trade name: Lithofin KF Mildew-Away

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:

Cleaner with hypochlorite

Dangerous components:

7681-52-9 sodium hypochlorite, solution 2.5-10 %

TSCA

All ingredients are listed.

3 Hazards identification

Hazard description: Irritant

Information pertaining to particular dangers for man and environment

Contact with acids releases toxic gases.

Irritating to eyes and skin.

Classification system

The classification is in line with internationally approved calculation standards. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

NFPA ratings (scale 0-4)

Health = 1

Fire = 0

Reactivity = 1

Special: Alk

4 First aid measures

General information

Immediately remove any clothing soiled by the product.

After inhalation

Supply fresh air; consult doctor in case of complaints.

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

Do not use acids or acidic substances as an antidote.

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:

Chlorine

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

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.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to penetrate the ground/soil.

In case of seepage into the ground inform responsible authorities.

Measures for cleaning/collecting:

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

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.

Prevent formation of aerosols.

When diluting, always stir the product into standing water, not water to product.

Only use alkali-resistant equipment.

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

Store only in the original receptacle.

Provide alkali-resistant floor.

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Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from feed.

Do not store together with acids.

Store away from reducing agents.

Further information about storage conditions:

Keep receptacle tightly sealed.

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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.

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.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Short term filter device:

Filter B.

NIOSH/MSHA-approved respirator

Protection of hands:

Alkali-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

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

As described by OSHA's eye and face protection regulations in 29 CFR 1910.133

Body protection: Alkali-resistant protective clothing

9 Physical and chemical properties:

General Information

Form: Fluid
Color: Yellowish
Odor: Pungent

	<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 self igniting.		
Danger of explosion:	Product does not present an explosion hazard.		
Density:	at 20 ° C ~ 1.1 g/cm ³		
Solubility in / Miscibility with Water:	Fully miscible		
pH-value:	at 20 ° C > 12		

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Materials to be avoided:

Acids
Reducing agents

Dangerous reactions

Reacts with acids forming chlorine.
Reacts with reducing agents

Dangerous products of decomposition: Chlorine

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:

Irritant to skin and mucous membranes.
Repeated or prolonged skin contact may have caustic effects on skin.

on the eye:

Irritating effect.
Caustic effects on the eyes will be likely, if eyes are not rinsed out immediately.

Sensitization: No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internationally approved calculation methods for preparations: Irritant
After swallowing: irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

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:

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

Danger to drinking water if even small quantities leak into the ground.

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.

Non contaminated packaging can be used for recycling.

14 Transport information

DOT regulations:

Hazard class: -

No hazardous material according to the regulations

Land transport ADR/RID (cross-border)

ADR/RID class: -

No hazardous material according to the regulations

Maritime transport IMDG:

IMDG Class: -

No hazardous material according to the regulations

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

No hazardous material according to the regulation

15 Regulations

Carcinogenicity categories

EPA (Environmental Protection Agency)

void

IARC (International Agency for Research on Cancer)

void

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

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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.

Do not breathe aerosol

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

After contact with skin, wash immediately with plenty of water

Wear suitable gloves.

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

Do not mix with acids

Use only in well-ventilated areas.

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

Special labelling of certain preparations:

For consumer products: The packaging of preparations containing more than 1% of active chlorine must bear the following particular inscriptions: "Warning! Do not use together with other products. May release dangerous gases (chlorine)."

Regulation or reporting requirements USA

Sara section 355

not listed

Sara section 313

not listed

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:

KFT-Chemieservice Marienstr. 3 D-64347 Griesheim

Postfach 1451 D-64345 Griesheim

Tel.: +49-6155-823241

Fax: +49-6155-823246

Contact: Angelika Torges
