1 Identification of substance:

Product details:

Trade name: Lithofin WAX-OFF
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: Solvent based cleaner

Dangerous components:

64742-95-6 Solvent naphtha (petroleum), light arom.	50-100 %
64742-82-1 Naphtha, (petroleum), hydrodesulphurized heavy	2.5-10 %
111-76-2 2-butoxyethanol	2.5-10 %
RTECS: KJ 8575000	
68647-72-3 Terpenes and Terpenoids, sweet orange-oil	2.5-10 %
Alcohol	< 2.5 %
68131-39-5 Isotridecanol ethoxylate	< 2.5 %

Additional information Benzene < 0,1 %
TSCA
All ingredients are listed.

3 Hazards identification

Hazard description:
Harmful
Dangerous for the environment
Information pertaining to particular dangers for man and environment
Flammable.
Irritating to eyes and respiratory system.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Harmful: may cause lung damage if swallowed.
Vapours may cause drowsiness and dizziness
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 = 2
Fire = 3
Reactivity = 0

4 First aid measures

General information
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
After inhalation
Remove victim from contaminated area. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration. Call a doctor.
After skin contact
Clean effected skin thoroughly with water and a mild cleansing agent.
No residues shall remain on the skin.
After eye contact
Rinse opened eye for several minutes under running water.
Seek medical treatment.
After swallowing
Do not induce vomiting; immediately call for medical help.
If vomiting occurs spontaneously: Hold the head of the casualty low with the body in a prone position in order to avoid penetration of vomit into the air tube (danger of aspiration).
Information for doctor
The following symptoms may occur:
After inhalation:
Irritation of mucous membranes
See chapter 11

5 Fire fighting measures

Suitable extinguishing agents
Foam
Extinguishing powder
Carbon dioxide
Sand
Use fire fighting measures that suit the environment.
For safety reasons unsuitable extinguishing agents Water with full jet.
Special hazards caused by the material, its products of combustion or resulting gases:
Dangerous decomposition products see chapter 10: stability and reactivity
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.
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 non-combustible material like sand, soil, diatomite.
Ensure adequate ventilation.
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.
Keep receptacles tightly sealed.
Use solvent-proof equipment.
Avoid inhalation of vapours.
Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

Storage
Requirements to be met by storerooms and receptacles:
Store receptacles tightly closed at a cool and dry place with sufficient ventilation
Provide solvent resistant, sealed floor.
Prevent any seepage into the ground.
Information about storage in one common storage facility:
Store away from foodstuffs.
Store away from feed.
Further information about storage conditions: None.
Storage class 3A Flammable liquid

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:
111-76-2 2-butoxyethanol
PEL: 240 mg/m³, 50 ppm
Skin
REL: 24 mg/m³, 5 ppm
Skin
TLV: 97 mg/m³, 20 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.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale dust / smoke / mist.
Do not eat or drink while working.
Use skin protection cream for skin protection.
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 A
NIOSH/MSHA-approved respirator

Protection of hands:
Wear chemically resistant protective gloves (tested according to DIN EN 374)
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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection:
Chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133
Body protection: Protective work clothing.

---

9 Physical and chemical properties:

General Information

Form: Liquid
Color: Colorless, clear
Odor: Aromatic

	Value/Range Unit Method
Change in condition	
Melting point/Melting range:	undetermined
Boiling point/Boiling range:	> 130 °C
Flash point:	> 23 °C
Auto igniting:	Product is not self igniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	~ 0.6 Vol %
Upper:	~ 8.0 Vol %
Density:	at 20 °C ~ 0.9 g/cm³
Solubility in / Miscibility with Water:	Insoluble
pH-value:	not applicable
Viscosity:	
dynamic:	at 20 °C < 30 s

---

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.
Dangerous reactions No dangerous reactions known
Dangerous products of decomposition:
In the case of fire or at high temperatures the formation of the following decomposition products is possible: Carbon monoxide and carbon dioxide

---

11 Toxicological information

Acute toxicity:
LD/LC50 values that are relevant for classification:
No toxicity data are available for the product itself.
64742-95-6 Solvent naphtha (petroleum), light arom.
Oral: LD50: >6800 mg/kg (rat)
Dermal: LD50: >3400 mg/kg (rab)
Inhalative: LC50/4 h: >10.2 mg/l (rat)
Primary irritant effect:
on the skin: Repeated contact has a drying effect on the skin.
on the eye: Irritating effect.
Sensitization: No sensitizing effects known.
Additional toxicological information:
The product shows the following dangers according to internationally approved calculation methods for preparations: Harmful
Inhalation of concentrated vapors as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

12 Ecological information:

Ecotoxical effects:
Acquatic toxicity:
Presently there are no ecotoxicological values available.
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.

14 Transport information

DOT regulations:
Hazard class: 3
Identification number: UN1993
Packing group: III
Proper shipping name (technical name):
FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE)
Label 3

Land transport ADR/RID (cross-border)
ADR/RID class: 3 (F1) Flammable liquids
Danger code (Kemler): 30
UN-Number: 1993
Packaging group: III
Label 3
Description of goods: 1993 FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE)

Maritime transport IMDG:

IMDG Class:	3
UN Number:	1993
Label	3
Packaging group:	III
EMS Number:	F-E,S-E
Marine pollutant:	No
Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE)

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class:	3
UN/ID Number:	1993
Label	3
Packaging group:	III
Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE)

---

15 Regulations

Cancerogenity 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
OSHA-Ca (Occupational Safety & Health Administration)
void

Markings according to EU guidelines:
The product has been classified and marked in accordance with directives on hazardous materials.

Code letter and hazard designation of product:
Harmful
Dangerous for the environment

Hazard-determining components of labelling:
Solvent naphtha (petroleum), light arom.
Naphta, (petroleum), hydrodesulfurized heavy

Risk phrases:
Flammable.
Irritating to eyes and respiratory system.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Harmful: may cause lung damage if swallowed.
Vapours may cause drowsiness and dizziness

Safety phrases:
Keep out of the reach of children.
Do not breathe fumes
Avoid contact with skin.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point

Wear suitable protective clothing and gloves.
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

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