

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)

( EN / D )

**Trade name :** GQ 413S Professional Impregnator

Revision date : 20.02.2015  
Print date : 26.02.2015

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

**1.1 Product identifier**

GQ 413S Professional Impregnator

**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)**

**Supplier :** 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)

**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**

Flammable. · Harmful: may cause lung damage if swallowed.

R 10 · Xn ; R 65 · R 67 · R 66

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

Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

STOT SE 3 ; H336 - Specific target organ toxicity (single exposure) : Category 3 ; May cause drowsiness or dizziness.

**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

**R-phrases**

10 Flammable.  
65 Harmful: may cause lung damage if swallowed.  
67 Vapours may cause drowsiness and dizziness.  
66 Repeated exposure may cause skin dryness or cracking.

**S-phrases**

62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.  
35 This material and its container must be disposed of in a safe way.  
51 Use only in well-ventilated areas.  
24 Avoid contact with skin.

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

**Hazard pictograms**

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Flame (GHS02) · Health hazard (GHS08) · Exclamation mark (GHS07)

**Signal word**

Danger

**Hazard components for labelling**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, < 0,1 % benzene ; CAS No. : (64742-48-9)

**Hazard statements**

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H336 May cause drowsiness or dizziness.

**Precautionary statements**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/...  
P331 Do NOT induce vomiting.  
P405 Store locked up.  
P501 Dispose of contents/container to ....

**Supplemental Hazard information (EU)**

EUH066 Repeated exposure may cause skin dryness or cracking.

**2.3 Other hazards**

**Adverse physicochemical effects**

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

**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**

impregnation

**Hazardous ingredients**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, < 0,1 % benzene ; REACH registration No. : 01-2119463258-33-xxxx ; EC No. : 919-857-5; CAS No. : (64742-48-9)

Weight fraction : 90 - 95 %  
Classification 67/548/EEC : R10 Xn ; R65 R67 R66  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H336

**Additional information**

All ingredients of this mixture are (pre)registered according to REACH regulation. < 0,1% Benzene, REG(EC) No 1272/2008, Annex VI; J, P

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. Observe risk of aspiration if vomiting occurs.

**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**

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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. Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

**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 (CO<sub>2</sub>) 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 (CO<sub>2</sub>) Hydrogen fluoride Fluoropolymers

**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.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation. Remove persons to safety. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.

**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

**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**

Vapours are heavier than air, spread along floors and form explosive mixtures with air. Keep away from sources of

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ignition. - No smoking. The product is: Combustible

**Fire class :** B  
**Shake before use** nein

**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) :** 3

**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**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, < 0,1 % benzene ; CAS No. : (64742-48-9)

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 600 mg/m<sup>3</sup>

Version :

**DNEL/DMEL and PNEC values**

**DNEL/DMEL**

Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) ( Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, < 0,1 % benzene ; CAS No. : (64742-48-9) )

Exposure route : Dermal

Exposure frequency : Long-term (repeated)

Limit value : 300 mg/kg/d

Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) ( Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, < 0,1 % benzene ; CAS No. : (64742-48-9) )

Exposure route : Inhalation

Exposure frequency : Long-term (repeated)

Limit value : 900 mg/m<sup>3</sup>

Limit value type : DNEL/DMEL (DNEL Consumer, Systemic) ( Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, < 0,1 % benzene ; CAS No. : (64742-48-9) )

Exposure route : Oral

Exposure frequency : Long-term (repeated)

Limit value : 300 mg/kg/d

Limit value type : DNEL/DMEL (Worker, Systemic) ( Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, < 0,1 % benzene ; CAS No. : (64742-48-9) )

Exposure route : Dermal

Exposure frequency : Long-term (repeated)

Limit value : 300 mg/kg/d

Limit value type : DNEL/DMEL (Worker, Systemic) ( Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, < 0,1 % benzene ; CAS No. : (64742-48-9) )

Exposure route : Inhalation

Exposure frequency : Short-term (acute)

Limit value : 1500 mg/m<sup>3</sup>

**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**

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**Hand protection**

**Suitable gloves type :** Gloves with long cuffs

**Suitable material :** NBR (Nitrile rubber), 0,4mm, >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 :** antistatic.

**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 :** liquid

**Colour :** light yellow

**Odour :** solvent

**Safety relevant basis data**

|  |              |     |                |                   |  |
|--|--------------|-----|----------------|-------------------|--|
| <b>Freezing point :</b>                    | ( 1013 hPa ) | <   | -20            | °C                |  |
| <b>Boiling temperature/boiling range :</b> | ( 1013 hPa ) | ca. | 153            | °C                |  |
| <b>Decomposition temperature :</b>         | ( 1013 hPa ) |     | not determined |                   |  |
| <b>Flash point :</b>                       |              | ca. | 32             | °C                | closed cup                               |
| <b>Ignition temperature :</b>              |              |     | not determined |                   |  |
| <b>Sustaining combustion</b>               |              |     | Yes            |                   | UN Test L2:Sustained combustibility test |
| <b>Lower explosion limit :</b>             |              |     | not determined |                   |  |
| <b>Upper explosion limit :</b>             |              |     | not determined |                   |  |
| <b>Vapour pressure :</b>                   | ( 50 °C )    | <   | 3000           | hPa               |  |
| <b>Density :</b>                           | ( 20 °C )    | ca. | 0,8            | g/cm <sup>3</sup> | Pyknometer                               |
| <b>Solvent separation test :</b>           | ( 20 °C )    | <   | 3              | %                 |  |
| <b>Water solubility</b>                    | ( 20 °C )    |     | hydrolysed     |                   |  |
| <b>pH value :</b>                          |              |     | not applicable |                   |  |
| <b>log P O/W :</b>                         |              |     | not determined |                   |  |
| <b>Flow time :</b>                         | ( 23 °C )    | <   | 15             | s                 | ISO cup 4 mm                             |
| <b>Odour threshold :</b>                   |              |     | not determined |                   |  |
| <b>Vapourisation rate :</b>                |              |     | not determined |                   |  |
| <b>VOC-FR</b>                              |              |     | not applicable |                   |  |

**9.2 Other information**

None

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

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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**

No data available

**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 ( Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, < 0,1 % benzene ; CAS No. : (64742-48-9) )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 5000 mg/kg

**Acute dermal toxicity**

Parameter : LD50 ( Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, < 0,1 % benzene ; CAS No. : (64742-48-9) )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 5000 mg/kg

**Specific symptoms in animal studies**

No data available

**Irritant and corrosive effects**

**Assessment/classification**

Repeated exposure may cause skin dryness or cracking.

**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 ( Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, < 0,1 % benzene ; CAS No. : (64742-48-9) )  
Species : Fish  
Effective dose : > 100 mg/l

**Chronic (long-term) fish toxicity**

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Parameter : NOEC ( Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, < 0,1 % benzene ; CAS No. : (64742-48-9) )

Species : Fish  
Effective dose : > 0,1 - 1 mg/l

**Acute (short-term) daphnia toxicity**

Parameter : EC50 ( Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, < 0,1 % benzene ; CAS No. : (64742-48-9) )

Species : Daphnia  
Effective dose : > 100 mg/l

**Chronic (long-term) daphnia toxicity**

Parameter : NOEC ( Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, < 0,1 % benzene ; CAS No. : (64742-48-9) )

Species : Daphnia  
Effective dose : > 0,1 - 1 mg/l

**Acute (short-term) algae toxicity**

Parameter : IC50 ( Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, < 0,1 % benzene ; CAS No. : (64742-48-9) )

Species : Algae  
Effective dose : > 100 mg/l

**Effects in sewage plants**

Observe local regulations concerning effluent treatment.

**12.2 Persistence and degradability**

No data available

**Biodegradation**

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) : 07 01 04\*

**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**

UN 1993

**14.2 UN proper shipping name**

Land transport (ADR/RID)

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FLAMMABLE LIQUID, N.O.S. ( TURPENTINE SUBSTITUTE )

**Sea transport (IMDG)**

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**Air transport (ICAO-TI / IATA-DGR)**

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**14.3 Transport hazard class(es)**

**Land transport (ADR/RID)**

Class(es) : 3  
Classification code : F1  
Hazard identification number (Kemler No.) : 30  
Tunnel restriction code : D/E  
Special provisions : 640E · LQ 5 I · E 1  
Hazard label(s) : 3

**Sea transport (IMDG)**

Class(es) : 3  
EmS-No. : F-E / S-E  
Special provisions : LQ 5 I · E 1  
Hazard label(s) : 3

**Air transport (ICAO-TI / IATA-DGR)**

Class(es) : 3  
Special provisions : E 1  
Hazard label(s) : 3

**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

**SECTION 15: Regulatory information**

**15.1 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) : 91,6 Wt % according to VOCV

**15.2 Chemical Safety Assessment**

No information available.

**SECTION 16: Other information**

**16.1 Indication of changes**

None

**16.2 Abbreviations and acronyms**

None

**16.3 Key literature references and sources for data**

None

**16.4 Relevant R-, H- and EUH-phrases (Number and full text)**

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H336 May cause drowsiness or dizziness.



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|     |   |
|-----|---|
| R10 | Flammable.  |
| R65 | Harmful: may cause lung damage if swallowed.          |
| R66 | Repeated exposure may cause skin dryness or cracking. |
| R67 | Vapours may cause drowsiness and dizziness.           |

**16.5 Training advice**

None

**16.6 Additional information**

None

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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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