1. Identification of substance/mixture and the company/undertaking

1.1 Product name
Cast resin type GQ (Component A)
Use of substance / preparation:
Industrial. Raw material for elastomer products.

1.2 Supplier:
GT Elektrotechnische Produkte GmbH
Kupferschmidstrasse 86
79761 Waldshut-Tiengen/Germany
Tel.: +49(0)77 41/92 25-0
Fax: +49(0)77 41/92 25 29

1.3 Contact numbers:
Tel.: +49(0)77 41/92 25-14
e-Mail: info@gt-gmbh.com

Emergency telephone numbers
Revere to supplier or the next toxic information centre
e.g. Berlin Tel.: +49(0)30 / 3035-3466

2. Hazards Identification

2.1 Classification of the substance or mixture
Not a hazardous substance or mixture.

2.2 Label elements according GHS
No labelling according to GHS required.

2.2 Other Hazards
No data available.

3. Composition /Information on Ingredients

3.1 Substances
Not applicable.

3.2 Mixtures
3.2.1 Chemical characterization (preparation)
Polydimethylsiloxane with functional groups and auxiliaries for addition cross-linking.

4. First Aid Measures

4.1 Description of first aid measures
General notes:
In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

After inhalation:
Rest, fresh air.

After skin contact:
Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

After eye-contact:
Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

After swallowing:
Give several small portions of water to drink. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed
Any relevant information can be found in other parts of this section.

4.3 Indication of any immediate medical attention and special treatment needed
Further toxicology information in section 11 must be observed.

5. Fire Fighting Measures

5.1 Suitable Extinguishing Media
Fires can be controlled with water spray, foam or carbon dioxide. Larger fires are best fought with alcohol-resistant aqueous film forming foam (AFFF-AR).

Extinguishing media which must not be used for safety reasons:
Water jet, extinguishing powder, halones.

5.2 Special hazards arising from the substance or mixture
With the use of water-based extinguishing agents careis required because hydrogen can be released, which accumulates after extinguishing the fire in poorly ventilated or confined areas and may refire or cause an explosion. Foam carpets may also include hydrogen or flammable vapors, which can lead to surface bursts. Remove sources of ignition during cleaning and absorbing.

5.3 Advice for firefighters
Special protective equipment for firefighting:
Use respiratory protection independent of recirculated air. Keep unprotected persons away.

General information:
-

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment (see section 8). If material is released indicate risk of slipping.

6.2 Environmental precautions
Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material (e.g. earth).

6.3 Methods and materials for containment and cleaning up
Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner.

Further information:
Eliminate all sources of ignition. Do not seal collecting vessel gas-tight. Observe notes under section 7.

6.4 Reference to other sections
Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

7. Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling:
Open and handle container with care. Ensure adequate ventilation. Keep away from incompatible substances in accordance with section 10. Spilled substance increases risk of slipping.

Precautions against fire and explosion:
Product can release hydrogen. In partly emptied containers formation of explosive mixtures is possible. Keep away from sources of ignition and do not smoke. Keep away from open flames, heat and sparks. Take precautionary measures against electrostatic charging. Observe the same precautions when opening or entering confined storage areas such as cargo containers or tractor trailers.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels:
None known.

Advice for storage of incompatible materials:
Not applicable.

Further information for storage:
Store in original container only. Keep container in a cool and well ventilated place.

7.3 Specific end use (uses)
Sealing of electrical and electronic components. Refer to technical data sheet for more information.

8. Exposure controls / Personal protection

8.1 Parameters to be controlled

Maximum airborne concentrations at the workplace:
Not applicable.

8.2 Exposure controls

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:
Observe standard industrial hygiene practices for the handling of chemical substances. Do not eat, drink or smoke when handling.

Personal protection equipment:

Respiratory protection
Not required.

Hand protection
Recommendation: Protective gloves made of butyl rubber. Protective gloves made of nitrile rubber. Gloves suitable for up to 60 minutes use. The selection of appropriate gloves not only depends on the material, but also on other quality characteristics, and may vary depending on the manufacturer. Please observe information from your glove supplier in terms of permeability and breakthrough time.

Eye protection
Protective goggles.

Skin protection
Not required.

8.2.2 Exposure to the environment limited and controlled
Prevent material from entering surface waters and soil.

9. Physical and Chemical properties

9.1 Information on basic physical and chemical properties

General information:

Physical state / form:	liquid
Colour:	colourless
Odour:	odourless

Important information about the protection of health, safety and the environment:

Property:	**Value:**	**Method:**
Melting point / melting range:	not determined	
Boiling point / boiling range:	not applicable	
Flash point:	> 200 °C	(DIN 51376)
Ignition temperature:	> 450 °C	(DIN 51794)
Oxidizing properties:	no	
Lower explosion limit (LEL):	not applicable	
Vapour pressure:	not applicable	
Density:	1,00 g/cm³	
Water solubility / miscibility:	virtually insoluble	
pH-Value:	not applicable	
Viscosity (dynamic):	1000 mPa·s at 23 °C	(Brookfield)

9.2 Other Specifications

Explosion limits for released hydrogen:	4 – 75,6% (V).
Thermal decomposition:	> 200 °C

10. Stability / Reactivity

10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known. Relevant information can possibly be found in other parts of this section.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Reacts slowly with: basic substances, amines, strong acids, oxidizing agents. Reaction causes the formation of: hydrogen.

10.6 Hazardous decomposition products

Hydrogen. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150°C (302°F) through oxidation.

11. Toxicological Information

11.1 Information on toxicological effects

11.1.1 Acute toxicity

Assessment:

Based on the available data acute toxic effects are not expected after single oral exposure. Based on the available data acute toxic effects are not expected after single dermal exposure.

Product details:

Route of exposure	Result/Effect	Species/Test system	Source
oral	LD_{50}: > 2000 mg/kg No mortality with the given dose.	rat	test report

oral	LD_{50}: > 15000 mg/kg	rat	Conclusion by analogy
dermal	LD_{50}: > 2000 mg/kg No mortality with the given dose.	rabbit	test report

11.1.2 Skin corrosion/irritation

Assessment:

Based on the available data a clinically relevant skin irritation hazard is not expected.

Product details:

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy

11.1.3 Serious eye damage / eye irritation

Assessment:

Based on the available data a clinically relevant eye irritation hazard is not expected.

Product details:

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy

11.1.4 Respiratory or skin sensitization

Assessment:

Based on the available data a sensitization reaction is not expected from this product.

Product details:

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	guinea-pig; Magnus-son-Kligman	Conclusion by analogy OECD 406

11.1.5 Germ cell mutagenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.6 Carcinogenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.7 Reproductive toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.8 Specific target organ toxicity (single exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.9 Specific target organ toxicity (repeated exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.10 Aspiration hazard

Assessment:

For this endpoint no toxicological test data is available for the whole product.

12. Ecological information

12.1 Toxicity

Assessment:

Evaluation in analogy to similar product. No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

12.2 Persistence and degradability

Assessment:

Silicone content: biologically not degradable. Elimination by adsorption to activated sludge.

12.3 Bioaccumulative potential

Assessment:

Bioaccumulation is not expected to occur.

12.4 Mobility in soil

Assessment:

Polymer component: Insoluble in water. Adsorbs on soil.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

none known

13. Disposal Considerations

13.1 Waste treatment methods

13.1.1 Material

Recommendation:

Risk of oxyhydrogen formation upon contact with the substances mentioned in 10. Material designated for disposal must be segregated from incompatible substances or materials specified in Sect. 10. Wastes of this material should not be mixed with other wastes. Provide measures such as vented bungs to ensure pressure relief in the waste containers. Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

13.1.2 Uncleaned packaging

Recommendation:

Containers may contain hazardous quantities of hydrogen gas. Uncleaned containers should not be re-used to hold another material due to the potential for reaction between residual product and incompatible materials. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

13.1.3 Waste Disposal Legislation Ref.No.(EC)

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

14. Transport information

14.1 – 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group

Road ADR:
Valuation ..... : Not regulated for transport

Railway RID:
Valuation ..... : Not regulated for transport

Transport by sea IMDG-Code:
Valuation ..... : Not regulated for transport

Air transport ICAO-TI/IATA-DGR:
Valuation ..... : Not regulated for transport

14.5 Environmental hazards
Not hazardous to the environment.

14.6 Special precautions for user
Relevant information in other sections has to be considered.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
Bulk transport in tankers is not intended.

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
National and local regulations must be observed.
For information on labelling please refer to section 2 of this document.

Relevant regulations:
SI 2002/1689: CHIP Regulations 2002
SI 2002/2677: COSHH Regulations 2002
SI 1999/3242: Management of Health & Safety at Work Regulations 1999
Health & Safety at Work Act 1974
SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.
Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

15.2 Chemical safety assessment
A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

15.3 Details of international registration status
Relevant information about individual substance inventories, where available, is given below.

South Korea (Republic of Korea) ..... : **ECL** (Existing Chemicals List):
This product is listed in, or complies with, the substance inventory.

Japan ..... : **ENCS** (Handbook of Existing and New Chemical Substances):
This product is listed in, or complies with, the substance inventory.

Australia ..... : **AICS** (Australian Inventory of Chemical Substances):

	This product is listed in, or complies with, the substance inventory.
People's Republic of China ..... :	**IECSC** (Inventory of Existing Chemical Substances in China): This product is listed in, or complies with, the substance inventory.
Canada ..... :	**DSL** (Domestic Substance List): This product is listed in, or complies with, the substance inventory.
United States of America (USA) ..... :	**TSCA** (Toxic Substance Control Act Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory.
European Economic Area (EEA) .....:	**REACH** (Regulation (EC) No 1907/2006): General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

16. Other information

16.1 Material

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety related information.

16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.