

01. Identification of the mixtures and of the company**1.1 Product identifier**

Gigahertz Solutions Shielding Paint: CFA40

1.2 Relevant identified uses of the mixture

Electrically conductive priming coats and additives.

1.2.1 Relevant identified uses advised against

There are no information about relevant identified uses of the product, which are advised against.

1.3 Details of the supplier of the safety data sheet

Gigahertz Solutions GmbH, Am Galgenberg12, 90579 Langenzenn, Germany. Telephone: 0049-(0)9101-9093-0, Fax: 0049-(0)9101-9093-0. Contact: info@gigahertz-solutions.de

1.4 Emergency telephone number

Outside the business hours: (Giftnotruf Berlin, consultation in the german and english language) Telephone: +49 (0)30 30686 790.

02. Hazards identification**2.1 Classification of the substance or mixture**
Directive 67/548/EEC or 1999/45/EC and Regulation (EC) No 1272/2008 (GHS)

None.

2.2 Label elements

None.

2.3 Other hazards

None.

2.4 Additional information

This products are not dangerous concerning the regulation (EC) No. 1272/2008 (CLP) or the directive 1999/45/EC.

03. Composition, ingredients**3.1 Mixtures**

Composition variable:

INGREDIENT	CAS	PROP.
Water	7732-18-5	0-70 %
Graphite	7782-42-5	0-40 %
Carbon Black	1333-86-4	0-10 %
Carbon fibers	7440-44-0	0-10 %
Potassium silicate	1312-76-1	0-50%
Synthetic dispersion	Secret	0-40 %
Dispersing agent	Secret	0-1 %
Rheology modifier	Secret	0-1 %
Defoamer	Secret	0-1 %
Preservative	Secret	0-1 %
Solvents		0%

3.2 Hazardous components

Not applicable.

04. First aid measures**4.1 General**

In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove all contaminated clothing.

4.1.1 After inhalation

When symptoms persists, take the casualty into the fresh air and keep warm. Call a doctor, should the air passages be affected.

4.1.2 After skin contact

Wash away with soap and water and rinse. Do NOT use solvents or thinners. Take off immediately all contaminated clothes.

4.1.3 After eye contact

Remove contact lenses, keep eyelids open. Rinse open eye immediately with plenty of running water. Seek medical advice if complaint continues.

4.1.4 After ingestion

Keep at rest. Do not induce vomiting. Drink water in small draught. When swallowed immediately consult and show packing or label to physician.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any medical attention and special treatment needed

None.

05. Firefighting measures**5.1.1 Suitable extinguishing media**

This products are not flammable. In case of a fire extinguish surroundings as indicated.

5.1.2 Unsuitable extinguishing media

None known.

5.2 Special hazards arising from the substance or mixture

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters

Appropriate breathing apparatus may be required.

06. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Refer to protective measures listed in sections 7 and 8. The product produced in combination with water slippery surfaces.

6.2 Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Holding polluted washing water back and disposing of duly.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Remove residue by rinsing thoroughly with water. Thoroughly clean contaminated objects and floors and observe environmental regulations.

6.4 Reference to other sections

None.

07. Handling and storage**7.1 Precautions for safe handling**

No special measures necessary in the case of regulation storage and handling. Ensure a good ventilation in room and working area. Comply with the health and safety at work laws. Phrase P102: Keep out of reach of children. Phrase P103: Read label before use.

7.2 Conditions for safe storage, including any incompatibilities

This products are not flammable. Store in accordance with local regulations.

7.2.1 Hints on storage assembly

Keep away from: Alkali (lye), acid, oxidising agent.

Storage class : 12.

7.2.2 Further information on storage conditions

Observe label and technical data sheet precautions. Keep only in the original container in a cool, well-ventilated place. Protect against Heat. Frost. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Basic coatings interior and exterior.

08. Exposure controls, personal protection**8.1 Control parameters, occupational exposure limit values**

Informations on occupational exposure to RCP-method TRGS 900 (D). Limit value type (country of origin) : TRGS 900 (D). Limit value : Not relevant.

8.2 Personal protective equipment

Avoid contact with eyes and skin. Immediately remove all contaminated clothing. Do not eat or drink during work - no smoking. Wash hands before breaks and after work..

8.2.1 Respiratory protection

Breathing protection equipment is not required at brush or roll application. Do not breathe spray. By spraying: Use filter mask P2 (white).

8.2.2 Hand protection

At use as agreed a protective gloves from nitrile rubber with a material thickness 0.4 mm has to be used. Notes of the manufacturer have to be taken into account. Penetration time of the glove material: >= 8 h. By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should be replaced after the first wear out or a damage of the gloves. Gloves of cotton should be used under the gloves of polychloropren or nitrile rubber. After washing hands replace lost skin fat by fat containing skin creams.

8.2.3 Eye protection

Use protection glasses in case of splattering.

8.2.4 Body protection

Using protective clothing. If the product must sprayed, use apotective clothing.

8.2.5 Environmental exposure controls

See chapter 7. No additional measures necessary.

09. Physical and chemical properties**9.1 Information on basic physical and chemical properties****9.1.1 Appearance**

Form: Liquid to pasty.

9.1.2 Odour

Characteristic.

9.1.3 Odour threshold

Not determined.

9.1.4 Relevant safety data

Boiling temperature: Not applicable.

Flash point: Not applicable.

Ignition temperature: Not applicable.

Vapour pressure: Not determined.

Density: See technical data sheet.

Solvent separation test: Not applicable.

Solvent content in all products: 0 %.

pH value: All products: 8; HSF64, HSF74: 12.

Viscosity: Liquid to pasty, see technical data sheet.

VOC value: See technical data sheet, max. 1.0 g/l.

9.2 Other information

None.

10. Stability and reactivity**10.1 Reactivity**

No dangers connected by a possible reactivity of the product are known to proper handling and storage.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

No dangerous reactions are known if stored and handled correctly.

10.4 Conditions to avoid

Keep away from frost, heat and direct sunlight.

10.5 Incompatible materials

No dangerous reaction known. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

No dangerous decomposition product are known if stored and handled correctly. When exposed to high temperatures or in case of fire hazardous decomposition products such as carbon dioxide, carbon monoxide, smoke, nitric oxides or thick, black smoke may be produced.

11. Toxicological information

Toxicological data are not available. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

11.1 Information on toxicological effects, acute effects

Acute oral toxicity: None. Acute dermal toxicity: None. Acute inhalation toxicity: None.

11.1.1 Sensitisation

Not sensitising.

11.1.2 Repeated dose toxicity (subacute, subchronic, chronic)

Toxicological data are not available.

11.1.3 CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity: No data. Germ cell mutagenicity/Genotoxicity: No data. Reproductive toxicity: No data.

12. Ecological information**12.1 Toxicity**

Acute or chronic damages to water organisms by the product in the aquatic environment are not expecting.

12.2 Persistence and degradability

These are not data available.

12.3 Bioaccumulative potential

These are not data available.

12.4 Mobility in soil

These are not data available.

12.5 Results of PBT and vPvB assessment

These are not data available.

12.6 Other adverse effects

These are not data available.

12.7 Additional ecological information

Avoid exposing into ground, waterways and drainage. The product is evaluated according the method of 1999/45/EC and is not classified as harmful for the environment bus contents components which are harmful for the environment. See sections 2 and 3 for details.

13. Disposal considerations**13.1 Waste treatment methods**

Packaging with not dry uped residues have to be dropped at official collecting sites. Do not empty into waters or drains. Packaging with dry uped residues can be disposed together with household garbage or building site garbage.

13.1.1 Waste key

Disposal-definition No. (AVV-Code): 08 01 12 Paint and varnish waste with the exception of the ones who come under 08 01 11 *.

13.1.2 Contaminated packaging

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

14. Transport information**14.1 UN number**

No dangerous good in sense of this transport regulation.

14.2 UN proper shipping name

No dangerous good in sense of this transport regulation.

14.3 Transport hazard class(es)

No dangerous good in sense of this transport regulation..

14.4 Packing group

No dangerous good in sense of this transport regulation.

14.5 Environmental hazards

No dangerous good in sense of this transport regulation.

14.6 Special precautions for user

None.

15 Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU legislation. Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer: Not applicable. Directive 96/82/EC for danger control following severe accidents with dangerous substances: Not subject to 96/82/EC.

15.1.1 Other regulations (EU)

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline): VOC-value (in g/l) : max. 1.

15.1.2 National regulations

Restrictions of operation: None, if handled according to order. Major Accidents Ordinance: Not subject to StörfallVO.

15.1.3 Water hazard class (WVGK)

Class : 1 (Slightly hazardous to water) Classification according to VwVwS.

15.1.4 VOC-Regulation

VOC limit value step II (g/l), ready-to-use condition: 30. Maximum VOC content (g/l) of the product in a ready to use condition: max. 1.

15.1.5 Additional information

Giscode : M-DF01.

15.2 Chemical safety assessment

Chemical safety assessments for substances in this preparation were not carried out.

16. Further information**16.1 Indication of changes**

None.

16.2 Abbreviations and acronyms

None.

16.3 Key literature references and sources for data

Directive 67/548/EEC respectively 1999/45/EC in the current version. Regulation (EC) No. 1907/2006 (REACH), 1272/2008 (CLP) in the current version. Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP] Transport regulations according ADR, RID, IMDG, IATA in the current version.

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP] / Classification according to Regulation (EC) No. 1272/2008 [CLP]

None.

16.5 Relevant R-, H- and EUH-phrases

(Number and full text)

None.

16.6 Training advice

None.

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. It is temporarily possible, that products which have not been sold out of stock have a different label on the packaging compared with the safety data sheets. We appreciate your understanding. The information in the safety data sheet does not guarantee any product properties and does not establish any contractual legal relationship. The product may only be used in accordance with sections 1 and 7 on this safety data sheet and it has to be used as described on the label and the technical data sheet.