

Trade name: Octoguard FR-95

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

Trade name:
Octoguard FR-95

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture
Industrial raw material

Details of the supplier of the safety data sheet
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Advice on Safety Data Sheet
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2.) Hazardous Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

The product is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable.

Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements

Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

Safety phrases:

36/37 Wear suitable protective clothing and gloves.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:

3.) Composition / information on ingredients

3.2 Chemical characterization: Mixtures

Description:

Expandable graphite (90387-90-9 Graphite, acid-treated), coated with a special dispersing additive.

Dangerous components:

CAS: 90387-90-9 EINECS: 291-367-8	Graphite, acid-treated	50-100%
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Additional information: For the wording of the listed risk phrases refer to section 16.

4.) First aid measures

- **4.1 Description of 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:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**
 - If symptoms persist consult doctor.
 - If swallowed, rinse mouth with water (only if the person is conscious).
- **4.2 Most important symptoms and effects, both acute and delayed:**
 - No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed:**
 - No further relevant information available.

5.) Fire-fighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
 - CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture:**
 - Carbon monoxide (CO)
 - Sulphur dioxide (SO₂)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information:** Product is not flammable.

6.) Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:**
 - Wear protective clothing.
 - Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.
- **6.4 Reference to other sections:** No dangerous substances are released.

7.) Handling and storage

- **7.1 Precautions for safe handling:**
 - Multiple volume increase under influence of heat.
 - Provide suction extractors if dust is formed.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities:**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
 - Store dry and cool, protect from frost. +5 - +30 °C
- **Storage class:** 13 (Non combustible solids).
- **7.3 Specific end use(s):** No further relevant information available.

8.) Exposure controls / personal protection

- **Additional information about design of technical facilities:** Avoid generation of dust.
- **8.1 Control parameters**
- **Ingredients 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.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:**
 - Necessary only if the dust LLV/OEL/WEL-value is exceeded. If formation of dust (mist, aerosols) occurs, use proper filtering device (e.g. particle filter type P, colour: white). Filter P1

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves:**

Rubber gloves (EN 374)

· **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:**

Goggles recommended during refilling

Tightly sealed goggles

(EN 166)

· **Body protection:**

Protective work clothing

(EN 344)

9.) Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Powder

Colour: Black

Grey

· **Odour:**

Odourless

· **pH-value (20 g/l) at 20 °C:**

~ 10 (aq. dest.; DIN 19268)

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· **Flash point:**

Not applicable.

· **Self-igniting:**

Product is not selfigniting.

· **Danger of explosion:**

Product does not present an explosion hazard.

· **Density at 20 °C:**

~ 2.3 g/cm³ (OECD 109)

· **Solubility in / Miscibility with water:**

Fully miscible.

· **Solvent content:**

Organic solvents: ~ 0.0 %

VOC (EC): ~ 0.0 %

Solids content: ~ 94.5 %

· **9.2 Other information:**

No further relevant information available.

10.) Stability and reactivity

· **10.1 Reactivity**

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions:** No dangerous reactions known.

· **10.4 Conditions to avoid:** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

· **10.6 Hazardous decomposition products:** Sulphur oxides (SO_x)

11.) Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity:**

· **Primary irritant effect:**

· **on the skin:** No data available.

· **Sensitization:** No sensitizing effects known.

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· **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12.) Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **12.2 Persistence and degradability:** No further relevant information available.

· **12.3 Bioaccumulative potential:** No further relevant information available.

· **12.4 Mobility in soil:** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **12.6 Other adverse effects:** No further relevant information available.

13.) Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation:** Smaller quantities can be disposed of with household waste.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

14.) Transport information

· **14.1 UN-Number**

· **ADR, ADN, IMDG, IATA** Void

· **14.2 UN proper shipping name**

· **ADR** Void

· **ADN, IMDG, IATA** Void

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class** Void

· **14.4 Packing group**

· **ADR, IMDG, IATA** Void

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

· **14.6 Special precautions for user:** Not applicable.

· **14.7 Transport in bulk according to Annex II of**

MARPOL73/78 and the IBC Code: Not applicable.

· **Transport/Additional information:** Not dangerous according to the above specifications.

· **UN "Model Regulation":** -

15.) Regulatory information

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

· **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

· **Safety phrases:**

36/37 Wear suitable protective clothing and gloves.

· **National regulations:**

· **Classification according Safety of Operation Ordinance (german):** -

- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**
None of the components are listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

EC50: The term half maximal effective concentration (EC50) refers to the concentration of a drug, antibody or toxicant which induces a response halfway between the baseline and maximum after some specified exposure time.

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

LOEC/LOEL: Lowest Observed Effect Concentration/Lowest Observed Effect Level.

NOEC/NOAEL: No Observed adverse Effect Concentration/No Observed adverse Effect Level.

STOT RE: Specific Target Organ Toxicity - Repeated Exposure.

STOT SE: Specific Target Organ Toxicity - Single Exposure.

BCF: Bioconcentration factor.

GWP: Global Warming Potential

ODP: Ozone Depletion Potential

log Kp: Measurement of mobility of organic compounds in soils.

Lit. 1 ECHA <http://apps.echa.europa.eu/registered/registered-sub.aspx>

STP Sewage Treatment Plant

PBT: Persistent, Bioaccumulative, Toxic

vPvB: Very Persistent, Very Bioaccumulative

DIN: German Institute for Standardization

Do not handle until the Manufacturer's Safety Precautions have been read and understood. This data is up to the current level of our knowledge and experience. The safety data sheet is only intended to give a description of products with regard to safety requirements. However, it is not to be taken as a warranty or representation for which Tiarco Chemical assumes legal responsibility. Any use of this information and data must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

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