

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH)



HSMC - HOLLOWED SPHERES MATRIX COMPOUNDS

Version: 4

Revision date: 14.11.2014

Date of print: 14.11.2014

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

Product identifier

Identification / trade name: HSMC - HOLLOWED SPHERES MATRIX COMPOUNDS

Additional identification: Vatral 200

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

Use of the substance / mixture:

Fire Protection Adhesive

Details of the supplier of the safety data sheet

Supplier / Manufacturer: TDH GmbH Im Auwelt 45 Bunker 177 & 145 D-47624 Kevelaer-Twisteden

Telephone: +49 (0) 2832 930 59 62

Telefax: +49 (0) 2832 930 59 63

E-mail: info@hsmc.de

Department responsible for information

Information contact: www.hsmc.de

E-mail (competent person): info@hsmc.de

Emergency telephone: +49 (0) 2832 930 59 62 (only during office hours)

2. Hazards identification

Classification of the substance or mixture

Classification according to 67/548/EEC or 1999/45/EC

keine

Label elements

Labelling according to Regulation (EC) No 1272/2008

This mixture is not classified as hazardous according to Regulation (EC) 1272/2008.

Labelling according to 67/548/EEC or 1999/45/EC

This preparation is not classified as hazardous according to 1999/45/EC.

Hazard symbols and hazard statements

not applicable

Other hazards

This mixture does not meet the PBT or vPvB criteria.

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3. Composition / information on ingredients

Chemical characterization

Adhesive based on an aqueous alkali silicate base, filled with energy-absorbing and fire resistant aggregates.

Hazardous ingredients

Silicic acid, sodium salt MVZ > 3,2 / < 40% / CAS: 1344-09-8 / EINECS: 215-687-4

4. First aid measures

General informations:	In all cases of doubt, or when symptoms persist, seek medical advice.
In case of inhalation:	Not applicable.
In case of skin contact:	After contact with skin, wash immediately with soap and plenty of water.
In case of eye contact:	Flush immediately with plenty of water. In case of eye irritation consult an ophthalmologist.
In case of ingestion:	Rinse mouth immediately and drink plenty of water. Seek medical advice.
Additional hints:	Symptomatic treatment.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media:	See the "additional information".
Unsuitable extinguishing media:	See the "additional information".

Additional information

Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product.

Environmental precautions

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Reference to other sections

Observe protective measures in sections 7 and 8.

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7. Handling and Storage

Precautions for safe handling

Advices on safe handling

The usual precautions for handling chemicals have to be observed. Avoid contact with skin, eye and clothing.

Precautions against fire and explosion

No special fire protection measures are necessary.

Conditions for safe storage, including any incompatibilities

Information on storage conditions

The storage temperature may not fall below 10°C. Storage group: 12 (TRGS)

Requirements for storage rooms and vessels

Do not use light metal containers. Unsuitable material for receptacle: aluminium glass or ceramic zinc
Suitable material for receptacles and pipes: steel or stainless steel

8. Exposure controls / Personal protection

Exposure controls

Personal protection equipment

Respiratory protection: No personal respiratory protective equipment normally required.

Hand protection: Suitable material: NR (natural rubber, natural latex). NBR (nitrile rubber). PVC (polyvinyl chloride). Butyl caoutchouc (butyl rubber). FKM (fluoro rubber).

Eye protection: Safety goggles

Protective clothing: usual work clothes

General health and safety measures

The usual precaution for handling chemicals have to be observed.

9. Physical and chemical properties

Information on basic physical and chemical properties

General information

Physical state:	Viscous
Colour:	sand colored
Odour:	odourless.
pH value (undiluted):	approx. 11 bei 23°C
pH value (1 %):	n.a.
Freezing point (°C):	n.a.

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Drop point / drop range:	n.a.
Pourpoint (°C):	n.a.
Boiling temperature (°C):	> 100°C
Flashpoint (°C):	n.a.
Vapour pressure (hPa):	n.a.
Density (g/cm³):	approx. 1,6g/cm ³
Bulk density (g/l):	n.a.
Water solubility:	n.a.
Fat solubility:	n.a.
Dynamic viscosity (mPas):	n.d.
Kinematic viscosity (mm²/s):	n.d.

10. Stability and Reactivity

Reactivity

No decomposition if used and stored according to specifications.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Strong exothermic reaction with acids. Reacts with light alloys to form hydrogen.

Conditions to avoid

No further relevant information available.

Incompatible materials

No further relevant information available.

Hazardous decomposition products

none suspected

11. Toxicological information

Acute toxicity

LD/LC50 values relevant for classification: 1344-09-8 silicic acid, sodium salt MVZ > 3,2 Oral - LD 50 - >2000mg/kg (rat)

Irritant and corrosive effects

Primary irritant effect: on the skin: slightly irritant on the eye: slightly irritant

Sensitisation

No irritation known or suspected.

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Additional 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

Toxicity

Aquatic toxicity: 1344-09-8 Silicic acid, sodium salt, mol ratio > 3,2: EC 50 / 48h > 1000mg/l (Daphnie), LC 50 / 96h > 1000mg/l (Brachydanio rerio)

Persistence and degradability

No further relevant information available. Other information: Readily eliminable from water. The organic part of the product is biodegradable.

Bioaccumulative potential

No further relevant information available

Mobility in soil

No further relevant information available Ecotoxicological effects: Remark: No toxicity after neutralization. Behavior in sewage processing plants. The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants. General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

Not applicable.

Other adverse effects

No data available.

13. Disposal considerations

Waste treatment methods

Recommendation

Can be disposed off with rubble after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Waste codes/waste designations according to EWC

Waste catalogue numbers are to be defined according to the AVV-Regulation, specially for application sectors.

Packaging

Contaminated package

Dispose of according to local regulations. Recommended cleansing agents: Water, if necessary together with cleansing agents.

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Cleaned package

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

14. Transport information

Land transport (ADR/RID)

Remark: No dangerous good in sense of this transport regulation.

Sea transport (IMDG)

Remark: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI / IATA-DGR)

Remark: No dangerous good in sense of this transport regulation.

15. Regulatory information

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

National regulations

Weakly water-endangering (WGK 1).

Chemical Safety Assessment

This product is a mixture. For this substance a chemical safety assessment has not been carried out.

16. Other information

Data sources

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 informations make no claim to be complete. This safety data sheet does not represent a warranty or assurance of properties of the preparation. The TDH GmbH disclaims any liability for damages resulting from contact with or incorrwct handling of these chemicals.