

according to Regulation (EC) No 1907/2006, Regulation (EU) No 2015/830, Regulation (EC) No 1272/2008

Hollow glass microspheres MS-V, MS-V(r), MS-VP, MS-VP-A9

Revision Date 01.09.2030

Version 1.0

EU / EN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1 Product identifier

Trade name : Hollow glass microspheres MS-V, MS-V(r), MS-VP, MS-VP-A9

Chemical name : Glass, oxide, chemicals.

CAS-No : 65997-17-3

EC-No : 266-046-0

Registration number : Absent.

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

Use of the Substance/ Mixture : Used as a filler in the manufacture of plastic products, emulsion explosives, thermal insulating materials.

1.3 Details of the supplier of the safety data sheet

Company : "NPO Stekloplastic" JSC
Andreevka 3A, Solnechnogorsk, Moscow region, 141551.

Telephone : +7 495 536 0694

E-mail address : info@npostek.ru

1.4 Emergency telephone number

+7 495 5360694 (Monday to Friday 09:30 to 17:30 GMT).

In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department. The attending health professional will be able to contact the National Poisons Information Service.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to REGULATION (EC) No 1272/2008

The product does not need to be classified in accordance with REGULATION (EC) No 1272/2008. Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labeling according to REGULATION (EC) No 1272/2008

The product does not need to be labelled in accordance with REGULATION (EC) No 1272/2008. Not a hazardous substance or mixture according to REGULATION (EC) No 1272/2008.

All precautionary statements see Section 16.

2.3 Other hazards

according to Regulation (EC) No 1907/2006, Regulation (EU) No 2015/830, Regulation (EC) No 1272/2008

Hollow glass microspheres MS-V, MS-V(r), MS-VP, MS-VP-A9

Revision Date 01.09.2030

Version 1.0

EU / EN

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

The product is a UVCB within the meaning of the REACH Regulation (1907/2006/EC).
The following table contains the main constituent at the top.

Chemical Name	Concentration, wt. %	CAS-No	EC-No Registration number	Index-No	CLP
Glass, oxide, chemicals	99.5 – 99.9	65997-17-3	266-046-0 / No data available	-	Not classified
Water	0.1 – 0.5	7732-18-5	231-791-2 / No data available	-	Not classified

For the full text of the H-phrases mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.
- Inhalation : If breathed in, move person into fresh air. If not breathing, give artificial respiration.
- Skin contact : In case of contact, flush skin with soap and plenty of water. If skin irritation persists, call a physician.
- Eye contact : Protect unharmed eye. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : Rinse mouth with water. If necessary, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

- Suitable extinguishing media : Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

- Specific hazards : Hazardous decomposition products may be formed under fire conditions (see section 10).

5.3 Advice fire fighters

- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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Hollow glass microspheres MS-V, MS-V(r), MS-VP, MS-VP-A9

Revision Date 01.09.2030

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Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire do not breathe fumes. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedure

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Avoid dust formation. Avoid breathing dust.

6.2 Environmental precautions

Prevent run-off from entering ground, storm sewers and ditches which lead to natural waterways.

6.3 Methods and materials for containment and cleaning up

Use any feasible mechanical means (e.g. vacuum, sweeping). Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly. Pick up and arrange disposal without creating dust.

6.4 Reference to other sections

See Section 7, 8, 11, 12 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8. Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin and eyes. Avoid breathing dust. Handle with care. Obtain special instructions before use.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage including any incompatibilities

Requirements for storage : Keep indoors or in an area accessible only to qualified or authorized persons. Keep container tightly closed in a well-ventilated place. Protect from moisture.
Storage in propylene bags or specialized soft containers.

Advice on common storage : Keep away from food, drink, animal feeding stuffs.

Storage period : 1 year.

Storage temperature : ≥ 15 °C

7.3 Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

according to Regulation (EC) No 1907/2006, Regulation (EU) No 2015/830, Regulation (EC) No 1272/2008

Hollow glass microspheres MS-V, MS-V(r), MS-VP, MS-VP-A9

Revision Date 01.09.2030

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EU / EN

Components	CAS-No	Control parameters	Basis	Country
Glass, oxide, chemicals	99.5 – 99.9	TWA: 10 mg/m ³ (dust and fiber)	MB 14.3.2002	Belgium

PNEC (Predicted No effect Concentration)

PNEC aqua – freshwater:

Glass, oxide, chemicals : 6.5 µg/L

PNEC aqua – marine water:

Glass, oxide, chemicals : 3.4 µg/L

PNEC sediment – freshwater:

Glass, oxide, chemicals : 174 mg/kg sediment dw

PNEC sediment – marine water:

Glass, oxide, chemicals : 164 mg/kg sediment dw

PNEC soil:

Glass, oxide, chemicals : 147 mg/kg soil dw

PNEC STP:

Glass, oxide, chemicals : 100 µg/L

8.2 Exposure controls

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms. Highly effective exhaust ventilation.

Personal protective equipment

Respiratory protection : Half mask with a particle filter.

Remarks : Use respirators and components tested and approved under appropriate government standards CEN (EU).

Hand protection : Wear suitable gloves.

Material : No data available.

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Tightly fitting safety goggles.

Remarks : Use equipment for eye protection tested and approved under appropriate government standards such as EN 166 (EU).

Skin and body protection : Overalls.

Remarks : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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Hollow glass microspheres MS-V, MS-V(r), MS-VP, MS-VP-A9

Revision Date 01.09.2030

Version 1.0

EU / EN

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Avoid formation of dust.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Wash contaminated clothing before re-use.

Environmental exposure controls

No data available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form : Powder.
Colour : White.
Odour : Absent.
Odor threshold : Absent.
Flash point : Not applicable.
Lower explosion limit : No data available.
Upper explosion limit : No data available.
Explosive properties : Non-explosive.
Flammability : Non-flammable.
Oxidizing properties : Non-oxidizing.
Self-ignition temperature : No data available.
Melting point/range : 550 °C
Boiling point/boiling range : No data available.
Vapor pressure : No data available.
Density : 0.2 – 0.6 g/cm³
Bulk density : 0.09 – 0.3 g/cm³
pH : Depending on the concentration of the suspension: 8 – 9.5
Water solubility : Partially.
Miscibility with water (15 °C) : No data available.
Partition coefficient: : No data available.
n-octanol/water
Solubility in other solvents : No data available.
Viscosity, dynamic : Not applicable.
Viscosity, kinematic : Not applicable.
Relative vapor density : No data available.
Evaporation rate : No data available.
Decomposition temperature : 1300 °C

9.2 Other information

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

according to Regulation (EC) No 1907/2006, Regulation (EU) No 2015/830, Regulation (EC) No 1272/2008

Hollow glass microspheres MS-V, MS-V(r), MS-VP, MS-VP-A9

Revision Date 01.09.2030

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Stable under normal conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Protect from moisture.

10.5 Incompatible materials

Materials to avoid : No data available.

10.6 Hazardous decomposition products

Hazardous decomposition products : Not applicable under normal conditions.

Thermal decomposition : Silicon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

No data available.

Acute inhalation toxicity

No data available.

Acute dermal toxicity

No data available.

Acute toxicity (other routes of administration)

No data available.

Skin corrosion / irritation

Skin irritation : May cause mechanical irritation.

Serious eye damage / eye irritation

Eye irritation : May cause mechanical irritation.

Sensitization of the respiratory / skin

Skin sensitization : Non-sensitizing.

Respiratory sensitization : Non-sensitizing.

Mutagenicity

No mutagenic effect.

Carcinogenicity

No carcinogenic effect.

Reproductive toxicity

No reproductive effect.

Teratogenicity

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Hollow glass microspheres MS-V, MS-V(r), MS-VP, MS-VP-A9

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No data available.

Specific target organ toxicity after single exposure

No data available.

Specific target organ toxicity after repeated exposure (sub-acute / sub-chronic)

Repeated dose toxicity: (sub-acute/ sub-chronic)

No data available.

Aspiration hazard

No aspiration hazard.

Neurological effects

No data available.

Toxicology, metabolism, distribution

No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish:

No data available.

Toxicity to daphnia and other aquatic invertebrates:

No data available.

Toxicity to aquatic plants:

No data available.

Long-term study fish/daphnia and other aquatic invertebrates/aquatic plants:

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulation potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT assessment and vPvB

The substance does not fulfill the PBT/vPvB criteria.

12.6 Other adverse effects

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

SECTION 13: DISPOSAL CONSIDERATIONS

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13.1 Waste treatment methods

Advice on disposal and : Disposal:
packaging

In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must be disposed of in a safe way. Do not dispose of together with household waste. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: TRANSPORT INFORMATION**ADR**

Non dangerous goods.

RID

Non dangerous goods.

IATA

Non dangerous goods.

IMDG

Non dangerous goods.

Special precautions for the user

See Section 6, 7 and 8.

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture**

Special labelling of certain mixtures : Restricted to professional users.

Seveso Directive (2012/18/EU) : Not applicable.

National legislation

Other regulations : Not applicable.

15.2 CSA

The Chemical Safety Assessment was not undertaken.

SECTION 16: OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.