

Product: The expanding polystyrene PSV-SV-NM-R-O, grades 1-2.5, PSV-SV-NM-R-O, grades 2-1.25, PSV-SV-NM-R-O, grades 3-0.8, PSV-SV-NM-R-O grade 6-0.8, PSV-SV-NM-R-O grade 7-0.6
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Supplier: JSC «Angarsk Polymer Plant»

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Section 1: Chemical Product and Company Information

1.1 Product identification

The expanding polystyrene PSV-SV-NM-R-O, grades 1-2.5, PSV-SV-NM-R-O, grades 2-1.25, PSV-SV-NM-R-O, grades 3-0.8, PSV-SV-NM-R-O grade 6-0.8, PSV-SV-NM-R-O grade 7-0.6

1.2 Recommendations and product use restrictions

The product is intended for the manufacture of heat and sound insulating blocks and other technical products by thermal sintering (thermoforming) of polymer particles pre-foamed to the required bulk density.

1.3 Supplier's details:

Name: Joint Stock Company «Angarsk Polymer Plant»
Legal address: 665830, Russia, Irkutsk region, Angarsk, First Industrial Massif, quarter 8, building 5
Actual address: 665835, Russia, Irkutsk region, Angarsk, PO Box 1993
Phone: +7 (3955) 57-30-00
Fax: +7 (3955) 57-76-12
Email: secr@azp.ru

1.4 Number of emergency contact phone

+7 (3955) 57-30-00

1.5 Contact person

Shvetsov Evgeny Evgenievich

Section 2: Hazards Identification

2.1 Classification of material (GHS):

Specific target organ toxicity – single exposure Category 3

2.2 Label elements (GHS)



Signal word:
Warning

Hazard statement

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H335: May cause respiratory irritation

Prevention

- P261 Avoid breathing dust/fume/gas/mist/ vapours/spray
- P271 Use only outdoors or in a well-ventilated area

Response

- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor/...if you feel unwell.

Storage

- P405 Store locked up.

2.3 Other hazards:

Unknown

Section 3: Composition and information on ingredients

Chemical name (IUPAC): It does not, product mixture
Chemical formula: Missing

Name	CAS №	Mass fraction, %	Classification (GHS)
Styrene, oligomers	9003-53-6	95,36	STOT SE 3, H335
2-methylbutane	78-78-4	4,64	Flam. Liquid 1, H224 Asp. Tox. 1, H304 STOT Single Exp. 3, H336 Aquatic Chronic 2, H411

Section 4: First-aid measures

4.1 Description of first aid measures

General information:

Cases of acute poisoning under industrial conditions are not described. The product is safe for humans, following the recommendations for use. In case of manifestation of negative reactions of the body, present the package, label and / or safety data sheet to the doctor for review.

4.2 Inhalation:

Fresh air, warmth, peace. Seek medical attention if you feel uncomfortable.

4.3 Skin contact:

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Rinse with plenty of water. Seek medical attention if irritation occurs.

4.4 Eye contact:

Rinse eyes wide open with plenty of running water. Seek medical attention if irritation persists..

4.5 Ingestion:

Rinse your mouth with plenty of water. If necessary, take activated carbon, saline laxative. Seek medical attention if you feel uncomfortable.

Section 5: Firefighting measures

5.1 Fire-fighting equipment:

Suitable extinguishing media:

Finely atomized water with a wetting agent, steam, carbon dioxide, air-mechanical foam, dry powder

Unsuitable extinguishing media:

direct jets of water.

5.2 Specific hazards:

Combustible product. Product dust can be ignited by static discharge. On combustion, carbon oxides are formed which, when inhaled in large concentrations in air, can cause suffocation.

5.3 Special protective equipment for firefighters:

Use a self-contained breathing apparatus for firefighting if necessary.

5.4 Additional Information:

Packaging may be involved in the combustion process.

Section 6: Measures in emergency situations

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation and product spillage. Wear personal protective clothing. Avoid contact with skin, eyes.

6.2 Warnings on environmental measures

Do not allow product to reach ground / soil drains / surface water / ground water.

6.3 Methods and materials for containment and cleaning up

Localize waking. If spilled, collect the product mechanically in a sealed container and dispose of in accordance with local regulations.

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6.4 Reference to other sections

Data on exposure controls / PPE and recycling are in sections 8 and 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

With proper storage and handling of the material, special measures are not required. Adequate ventilation / exhaustion at the workplace and storage. Do not eat, drink or smoke while working with the product. Wash hands and / or face before breaks and at the end of a work shift.

7.2 Conditions for safe storage, including any incompatibilities

The product is packaged in polypropylene bags with a net weight of 25 or 30 kg. Store the product in closed, ventilated, dry warehouses at a temperature not higher than 25 ° C. Avoid direct sunlight.
Warranty period of storage - 3 months.

7.3 Specific end uses

There are no

Section 8: Exposure controls/personal protection

8.1 Control parameters

When handling the product, regularly monitor the maximum permissible concentrations of product components in the air of the working area.
Do not eat, drink or smoke while working.

Recommended Exposure Limit (REL):

REL-TWA (weighted average time) 215 mg / m³

REL-STEL (Short-term exposure limit) 425 mg / m³

TWA 425 mg / m³

8.2 Personal protective equipment

Respiratory protection: use an appropriate respirator.

Eye protection: safety glasses with side shields. Do not wear contact lenses.

Advice for firefighters: In case of fire, wear self-contained breathing apparatus with overpressure (SCBA).

8.3 Monitoring of the impact on the environment

Do not allow product to reach ground / soil drains / surface water / ground water.

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Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical condition and appearance:

Solid, spherical granules

Colour:

Transparent to White

Odour:

Odourless

pH:

No data

Relative viscosity:

At least 1.7 s^{-1}

Apparent Density:

$15 \pm 2 \text{ kg / m}^3$ (for brand PSV-SV-NM-15)

$18 \pm 2 \text{ kg / m}^3$ (for the PSV-SV-NM-20 brand)

Flash point in open crucible:

46-70 °C

Auto-ignition Temperature:

376-475 °C

Decomposition temperature:

180-200 °C

Solubility in water:

insoluble in water

9.2 Other data

There are no

Section 10: Stability and reactivity

10.1 Chemical stability

The product is stable under normal conditions of use and storage temperature.

10.2 Conditions to avoid

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Avoid dust formation and heating of the product above 30 ° C during transportation and storage.

10.3 Incompatible materials

Aromatic hydrocarbons, strong oxidizing agents, strong acids.

10.4 Hazardous decomposition products

In the case of prescribed / notes for storage and use of hazardous decomposition products of the material does not stand out.

Section 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity (calculation method):
No data
- *Corrosion / irritation*:
Not classified
- *Serious eye damage / irritation*:
Not classified
- *Respiratory and skin sensitization*
Not classified
- *Germ cell mutagenicity*
Not classified
- *Carcinogenicity*
Not classified
- *Reproductive toxicity*
Not classified
- *Summary CMR properties assessment*
Information is absent
- *STOT-single exposure*
May cause upper respiratory tract irritation: Category 3
- *STOT-repeated exposure*
Not classified

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- *Aspiration hazard*
Not classified

Section 12: Ecological informations

12.1 Toxicity

The product may mechanically contaminate the environment in case of violation of the conditions of storage, transportation and use.

12.2 Persistence and degradability

The product is not subject to degradation

12.3 Bioaccumulative potential

It is not subject to bioaccumulation

12.4 Mobility in soil

Does not accumulate in the soil, is not transformed.

12.5 Results and evaluation PBT vPvB

The substance is not PBT / vPvB

12.6 Other side effects

Information is absent

12.7 Additional Information

Information is absent

Section 13: Disposal consideration

13.1 Recommendation

In compliance with national and local regulations must be delivered to fit polygon / site waste storage or adapted incinerator.

13.2 Contaminated packaging and recommended cleaning agents

Packaging should be thoroughly cleaned and disposed of in the same manner as the main product.

Section 14: Transport information

14.1 UN number

2211

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14.2 UN name	POLYMERIC BEADS, EXPANDABLE, evolving flammable vapour
14.3 Transport hazard class	9
14.4 Packing group	III
14.5 Environmental hazards	Not
14.6 Special precautions for user	No further information

Section 15: Regulatory Information

Currently not regulated by international conventions and agreements
Observe restrictions: No
Comply with trade association / occupational health.

Section 16: Other Information

Full text of classifications incl. decoding hazard symbols Hazard given in Chapter 2 or 3:

Hazard statement

H335: May cause respiratory irritation

Prevention

- P261 Avoid breathing dust/fume/gas/mist/ vapours/spray
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Response

- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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Acronyms:

(M) SDS – (MATERIAL) SAFETY DATA SHEET

GHS Globally Harmonized System of Classification and Labelling of Chemicals

IUPAC - International Union for Pure Applied Chemistry

CAS - Chemical Abstracts Service number.

LC50 - Lethal Concentration to 50% of a test population.

EC50 - Effective Concentration to 50% of a test population

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Aquatic Chronic. Chronic toxicity to aquatic
Eye Irrit. Corrosion / irritation of the eyes
STOT SE Specific target organ toxicity (single exposure)
STOT RE Specific toxicity on target organs (repeated exposure)

Renunciation:

The information in this safety data sheet applies only to the specified products in compiled form and is not necessarily valid if this material is used in combination with other materials or in processes not provided for in the instructions for use. According to the supplier, this information is accurate and reliable on the day this safety data sheet is issued. The responsibility of the consumer is to determine the suitability of the use of the product in various circumstances. The data from the safety data sheet are not proof of product quality, but only a recommendation for organizing the safe use of products. In case of non-observance of the precautionary measures described in the safety data sheet or improper use of the product, we are not responsible for the consequences.