

SECTION 1: Identification of the substance/mixture and of the company/undertaking**· 1.1 Product identifier**

· **Trade name:** JUBIZOL EPS F G0

· **Article number:** EPS F G0

· **CAS Number:**

9003-53-6

· **NLP Number:**

500-008-9

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

JUBIZOL EPS F - G0 (grey EPS without a switch)

· Product category

Thermal insulating boards made of expanded polystyrene (EPS) for facade systems (F) – with the addition of graphite (G).

· Application of the substance / the mixture

Depending on the intended use, thermal insulating boards are installed by fixing, mechanical attachment or are laid freely.

Description and field of application of boards made of expanded polystyrene (EPS) with the addition of graphite;

A special feature of graphite EPS are inbuilt particles of graphite which reflect heat, similarly to what a mirror does to light, thus significantly reducing heat transfer;

Compared to the white EPS, the graphite EPS' thermal characteristics have been improved by 20 % allowing the same energy efficiency of a building with a coat of thermal insulation that is thinner by one fifth;

A thinner façade cover of a building is required, which is important mainly in the case of the appearance of exterior and interior shelves, terraces and balconies, as well as in the case of a smaller volume for transportation of the material;

As a thermal insulating coat in contact thin-coat facade systems;

It is used in new constructions as well as when adding insulation to facade walls;

It reduces the possibility of formation of surface condensation on the interior side of facade walls;

Protection against excessive dilatation activity;

Optimum and economical thermal protection of exterior walls;

· 1.3 Details of the supplier of the safety data sheet**· Manufacturer/Supplier:**

JUB d.o.o.

Dol pri Ljubljani 28

1262 DOL PRI LJUBLJANI

SLOVENIA

T: + 386 1 5884 183

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· Further information obtainable from:

Product safety department:

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· 1.4 Emergency telephone number:

During normal opening times (8 - 16h CET) Group JUB: +386 1 5884 185

United Kindom: NPIS 0870 600 6266

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SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

The product is not classified as a dangerous mixture in accordance with the Regulation on the classification of chemicals (Rules on classification and particularly EU Directives 1967/548/EEC and 1999/45/EC, neither bound by the Regulation CLP 2008/1272/EC) since the content of potentially dangerous components is significantly lower than the criteria of classification.

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

The substance is not classified as hazardous to health or environment according to the CLP regulation.

Lact. H362 May cause harm to breast-fed children.

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

· Information concerning particular hazards for human and environment: Not applicable.

· 2.2 Label elements

· Labelling according to EU guidelines:

The substance is not subject to classification according to EU lists and other sources of literature known to us.

Observe the general safety regulations when handling chemicals.

· Hazard-determining components of labelling:

Hexabromocyclododecane

· Special labelling of certain preparations:

Safety data sheet available for professional user on request.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT:

25637-99-4	Hexabromocyclododecane
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· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterization: Substances

The product is a chemical compound characterised by low content of hazardous substances.

Main ingredients of JUBIZOL EPS F G0: polymer based on polystyrene and supplements.

· CAS No. Description

9003-53-6 Styrene, oligomers

· Identification number(s)

· NLP Number: 500-008-9

· Dangerous components:

CAS: 25637-99-4 EINECS: 247-148-4	Hexabromocyclododecane	PBT ☒ Xn R63 R64 Repr. Cat. 3 ☒ Repr. 2, H361-H362	< 0.5%
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· SVHC

25637-99-4	Hexabromocyclododecane
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SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information: No special measures required.

· After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact: Generally the product does not irritate the skin.

· After eye contact: Rinse opened eye for several minutes under running water.

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- **After swallowing:** *If symptoms persist consult doctor.*
- **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.

SECTION 5: Firefighting 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** *No further relevant information available.*
- **5.3 Advice for firefighters**
- **Protective equipment:** *CO₂, sand, extinguishing powder. Do not use water.*

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** *Wear protective clothing.*
- **6.2 Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*
- **6.3 Methods and material for containment and cleaning up:** *Pick up mechanically.*
- **6.4 Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** *No special measures required.*
- **Information about fire - and explosion protection:** *No special measures required.*
- **7.2 Conditions for safe storage, including any incompatibilities**
It should be stored in covered areas, away from sources of heat and flame, it should not be exposed to ultraviolet radiation and contact with incompatible materials/chemicals should be avoided.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** *Prevent any seepage into the ground.*
- **Information about storage in one common storage facility:**
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
- **Further information about storage conditions:**
Store under lock and key and with access restricted to technical experts or their assistants only.
- **Storage class:** *Storage class: 13 – Incombustible solid products*
- **7.3 Specific end use(s)** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** *No further data; see item 7.*
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** *Not required.*
- **Additional information:** *The lists valid during the making were used as basis.*
- **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:** *Not required.*

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· Protection of hands:

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· 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: Not required.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties**· General Information****· Appearance:**

Form: Solid

Colour: Not determined.

· Odour: Characteristic

· Odour threshold: Not determined.

· pH-value: Not applicable.

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Product is not flammable.

· Ignition temperature:

Decomposition temperature: Not determined.

· Self-igniting: Not determined.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.

Upper: Not determined.

· Vapour pressure: Not applicable.

· Density at 20 °C: 0.015 g/cm³

· Relative density Not determined.

· Vapour density Not applicable.

· Evaporation rate Not applicable.

· Solubility in / Miscibility with water:

Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

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· Solvent content:	
Organic solvents:	0.0 %
VOC (EC)	0.00 %
(the product is not subject to the Directive 2004/42/EC)	
Solids content:	100.0 %
· 9.2 Other information	No further relevant information available.

SECTION 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:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**
 - oral. > 5000 mg/kg (Rat)
 - dermal. > 5000 mg/kg (Rat)
 - inhal. > 5 mg/kg, 4h (Rat)
- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The substance is not subject to classification according to the latest version of the EU lists.

SECTION 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.
 - **12.5 Results of PBT and vPvB assessment**
- | | |
|---------------|------------------------|
| · PBT: | |
| 25637-99-4 | Hexabromocyclododecane |
- **vPvB:** Not applicable.
 - **12.6 Other adverse effects** No further relevant information available.

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SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.

· European waste catalogue	
07 02 13	waste plastic
17 06 04	insulation materials other than those mentioned in 17 06 01 and 17 06 03
15 01 02	plastic packaging

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number	The product JUBIZOL EPS F G0 is not classified as dangerous for transport according to transport regulations.
· ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name	
· ADR, 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:	
· ADR	
· Limited quantities (LQ)	-
· UN "Model Regulation":	-

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Following regulations were considered for the preparation of document:
Legislation on health and safety at work, chemical legislation and regulations on biocidal products, regulations on classification, packaging and labelling of chemical and biocidal products and requirements on safety data sheets for chemicals and biocidal products composition, as well as regulations on the management of packaging and packaging waste and waste.

In accordance with the current chemical regulation, the product is not classified as a dangerous substance or mixture.

General safety measures should be considered when working or handling with the product.

- **Labelling according to EU guidelines:**
The HBCD chemical is present in the product as a supplement - flame retardant. It is listed in Annex XIV of the REACH Regulation as a substance and, as such, it is subject to authorisation under the REACH

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Regulation. Its use and offer on the market will be prohibited as of August 2015, except for users who will be permitted to use it after this date. Further information is available upon request.

- **Special labelling of certain preparations:** -
- **Chemical safety assessment** -
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**

· Substances of very high concern (SVHC) according to REACH, Article 57
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25637-99-4	Hexabromocyclododecane
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- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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.

- **Relevant phrases**

H361 Suspected of damaging fertility or the unborn child.

H362 May cause harm to breast-fed children.

R63 Possible risk of harm to the unborn child.

R64 May cause harm to breastfed babies.

- **Recommended restriction of use**

Claims contained in this document are based on our actual knowledge at the time of revision of this document. They do not undertake the properties of the product described in terms of the legal provisions for the pledge.

Placing this document as available does not unbind the product customer from its responsibility to comply with all relevant laws and regulations applicable for this product. This is especially valid in the case of product resale or resale of its mixtures or manufactured products from other areas of law and industrial property rights of third parties. If the product described above is changed by crafting or mixing with other materials, it is not possible to transfer claims from this document onto a newly made product, unless otherwise specified. In the case of product re-packaging the customer must attach the required relevant safety information as well

- **Department issuing MSDS:** Product safety department

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- **Abbreviations and acronyms:**

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- *** Data compared to the previous version altered.** Version 1.0, 28.05.2013.