



According To Regulation (EC) No 1907/2006 (REACH)

FACTORY MADE PRODUCT PRODUCED ACCORDING TO TS EN 13163 COATED WITH ACRYLIC BINDER BASED CEMENT ON EXPANDED POLYSTYRENE FOAM (EPS)

 Version:
 1.0
 Preparation Date:
 12/26/2014

 Form No:
 444002
 Revision Date:
 12/26/2014

. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY/UNDERTAKING

| Product Name | FACTORY MADE PRODUCT PRODUCED ACCORDING TO TS EN 13163 |
|---------------------------------|---|
| | COATED WITH ACRYLIC BINDER BASED CEMENT ON EXPANDED POLYSTYRENE FOAM (EPS) |
| SDS^{1} No | 444002 |
| 1.2 Relevant Identified Uses Of | The Product And Uses Advised Against |
| Relevant Identified Uses | Building isolation and decoration |
| Uses Advised Against | See chapter 16 for a general overview |
| 1.3 Details Of The Supplier Of | The Safety Data Sheet |
| Supplier (Manufacturer) | KAR-YAPI TASARIM KARTONPİYER İNŞ. İML. TURZ. TAŞ. SAN. Ve TİC. A.Ş. |
| Address – Factory | ORGANİZE SANAYİ BÖLGESİ 2.KISIM |
| · | 24.CADDE NO:6 |
| | DÖŞEMEALTI /ANTALYA |
| Telephone | +90 444 5 527 |
| Fax | +90 242 344 63 11 |
| 1.4 Information Providing Autl | hority About Safety Data Sheet |
| - | Şule DEMİRAL – <u>sule.demiral@kar-yapi.com.tr</u> |
| 1.5 Emergency Telephone Num | aber |
| Company Emergency | +90 444 5 527 |

2. HAZARDS IDENTIFICATION

2.1 Classification Of The Product

2.1.1 Classification According to Regulation (EC) No 1272/2008

- Reproductive toxicity, Category 2, H361d
- Effects on or via lactation, H362
- · Hazardous to the aquatic environment: Chronic hazard, Category 3, H412

2.2 Label elements

2.2.1. Labeling According to Regulation (EC) No 1272/2008 [CLP²/GHS³]

Product Identifier

Hazard Component for Labeling

Expanded Polystyrene (EPS)







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Hazard Pictograms



Signal Word

WARNING

Hazard Statements

H361d Suspected of damaging the unborn child.

H362 May cause harm to breast-fed children.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

General

P102 Keep out of reach of children.

Prevention

P 263 Avoid contact during pregnanxy/while nursing.

P 270 Do not eat, drink or smoke when using this product.

P 273 Avoid release to the environment

Response

None

Storage

P405 Store locked up.

Disposal

None

Supplemental Hazard Information (EU) Statements

No data available.

2.2.2. Special Rules For Supplemental Label Elements For Certain Mixtures

None.

2.2.3. Additional Labeling

Not applicable

2.3 Hazard Identification

2.3.1. Skin Contact

May cause skin irritation.

2.3.2. Eye Contact

Dusts may cause eye irritation.

2.3.3. Ingestion

May be harmful if swallowed.

2.3.4. Inhalation







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May cause upper respiratory tract irritation

2.3.5. Long term effects

No data available

2.3.6. Adverse Environmental Effects

Hazardous to the aquatic environment, long-term hazard.

2.4. Additional Information

· None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Description Of The Substance: Mixture

| | | | CONT | CLASSIFICATION |
|---------------------------------------|-----------|---------|---------|--|
| NAME | EINECS NO | CAS NO. | ENT (%) | CLP |
| Expanded PolyStyrene foam (EPS) | - | - | 90 | WARNING Reproductive toxicity, Category 2; H361d Reproductive toxicity, Additional category for effects on or via lactation; H362 Hazardous to the aquatic environment, Chronic Category 3; H411 |

3.2 Additional information

· None

4. FIRST AID MEASURES

4.1.1 Description of first aid measures

4.1.2 General information

- · When in doubt or if symptoms are observed, get medical advice.
- In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

4.1.3 Following inhalation

- If a person breathes large amounts, move the exposed person to fresh air at once.
- If breathing has stopped, perform artificial respiration.
- Keep the affected person warm and at rest.
- Get medical attention as soon as possible.

4.1.4 Following skin contact

- · Flush skin running water (and soap if available).
- · Seek medical attention in event of irritation

4.1.5 Following eye contact

Immediately wash (irrigate) the eyes with large amount of water, occasionally lifting the lower and upper lids. Get medical attention immediately.







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- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- · Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

4.1.6 Following ingestion

- *Do NOT induce vomiting.*
- · Never give anything by mouth to an unconscious person.
- · Rinse mouth with water.
- · Consult a physician.

4.1.7 Self-protection of the first aider

· Not applicable

4.1.8 Notes for the doctor

Symptoms

· May cause dizziness.

5. FIRE-FIGHTING MEASURES

5.1 General Information and Flammable Properties

- · Product releases pentane, a flammable hydrocarbon and may produce explosive vapor / air mixtures.
- · Use firefighting procedures suitable for surrounding area.
- · If safe to do so, remove containers from path of fire.

5.2 Extinguishing media:

- Water (spray not splash)
- Dry extinguishing powder
- · Alcohol resistant foam
- Carbon dioxide

5.3 Unsuitable extinguishing media

Water with full jet

5.4 Special hazards arising from the product

- Attention! Hazardous decomposition products may occur.
- Wear self-contained breathing apparatus.

5.5 Advice for fire-fighters

Wear breathing apparatus plus protective gloves for fire only

5.6 Additional information

- · Cool endangered containers with water in case of fire.
- Do not allow the quenching water into sewage systems

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures







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• Refer to protective measures listed in section 7 and 8.

6.2 Environmental precautions

No special measure is required.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment

- · Control personal contact by using protective equipment as required
- Take up contaminated material and pass on for further processing.
- · Contain for disposal according to local / national regulations.

6.3.2 For cleaning up

- · Control personal contact by using protective equipment.
- · Place in a suitable, labeled container for waste disposal.
- · Dispose of in accordance with legal regulations and place in a suitable, labeled container for waste disposal
- · Collect recoverable product into labeled containers for recycling

6.3.3 Other information

- · Ensure adequate ventilation.
- Dispose of waste material according to local, state and federal regulations.

6.4 Reference to other sections

- Dispose of contaminated material as waste in accordance with section 13.
- See Section 13.

7. HANDLING AND STORAGE

7.1.1 Precautions for safe handling

7.1.2 Protective measures

Personal preventions

- Take care to maintain clean working place.
- The substance must not be present at workplaces in quantities above that required for work to be progressed.
- · Do not leave container open.
- · Use leak-proof equipment with exhaust for refilling or transfer.
- · Fill only into labelled container.
- · Avoid any contact when handling the substance.
- Avoid rising dust.

Fire preventions

· See section 5.

Environmental precautions:

Dispose of waste material according to local, state and federal regulations.

7.1.3 Advice on general occupational hygiene

Use good occupational work practice.







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- · Comply with the health and safety at work laws.
- Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

- Do not use any food containers risk of mistake.
- · Containers have to be labelled clearly and permanently.
- Store in the original container as much as possible.
- · Keep container tightly closed.
- Store in a dry place.
- · Protect from moisture.

7.1 Advice on common storage

- · Protect against electrostatic charges.
- · Avoid storing together with UN Class 1 explosives.
- · See also instructions on the label.
- Store in a cool, dry, well-ventilated area.
- · Keep away from food, drink and animal feeding stuffs.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage.

7.2 Specific precautions on storage

• Observe the national and local regulations concerning handling and storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Preventive industrial and medical examinations must be carried out according to the application area.

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

8.1.1 Occupational exposure limits

| | | | | | Limit | value | | T 7 | |
|----------------------------|------------------------|--------------------------------|---------------|--------------------|----------------------------|-------|----------------|------------|------------|
| Substance or mixture | EINECs ⁴ No | CAS ⁵ No. Content % | $TWA^6 (8 h)$ | | STEL ⁷ (15 mn.) | | Upper limit | Source | |
| | | | | mg/m3 ⁸ | ppm ⁹ | mg/m³ | ppm | unu | |
| Pentane (mixed isomers) | 203-692-4 | 109-66-0 | <i>x</i> < 7 | - | 20 | - | 40 | - | ACGIH 2002 |
| Hexabromo cyclododecane | 202-851-5 | 100-42-5 | <i>x</i> < 1 | - | 600 | - | - | - | ACGIH 2002 |

8.2 Exposure controls

Adequate ventilation should be used during processing

8.2.1 Appropriate engineering controls:

See Section 7

8.2.2 Personal protection equipment

8.2.2.1 Eye / Face protection:







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Sufficient eye protection must be worn.

Wear chemical safety goggles.

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

In the event of chemical exposure, safety goggles must be used and remove contact lens as soon as practicable

8.2.2.2 Skin protection

Hand protection

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.

Body protection

Use appropriate body protective cloth.



Other protection

Handle in accordance with good industrial hygiene and safety practice.

8.2.2.3 Respiratory protection

In case of brief exposure or low pollution use respiratory filter device.

In case of intensive or longer exposure use self-contained respiratory protective device.

8.2.3 Environmental exposure controls

Legislation for the protection of the environment must be met in full.

9. PHYSICAL AND CHEMICAL PROPERTIES

| 9.1 Appearance | |
|---|--------------------------|
| Form/Physical state | Solid (as small spheres) |
| Color | White |
| Odor | None |
| | Value |
| pH (20 gr/lt in water solution) @ (25°C) | Not available |
| Boiling point/range (°C) | Not available |
| Melting point (°C) ca. | Not available |







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| Flash Point (°C) | Not available |
|--------------------------------|--|
| Self Ignition temperature (°C) | Not available |
| Density kg/m3 @ 20°C | Not available |
| Lowest Flash Limit (%) | Not available |
| Highest Flash Limit (%) | Not available |
| Softening point (° C) | Not available |
| $Vapor\ density\ (air=1)$ | Not available |
| Solubility in water g/l @ 20°C | Not soluble |
| | Product is not explosive. |
| Explosive Property | Formation of explosive air/vapour mixtures are |
| | possible. |
| Oxidation Property | None |

<u>Note</u>: The above features were determined according to prescribed methods at the Classification, Packaging and Labeling of Hazardous. Substances Regulation Section A-3 or a method comparable to the other.

10. STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

Stable under recommended storage and handling conditions. (See section 7.)

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid:

Heat, flames and sparks

10.5 Incompatible materials:

UN1 class explosives.

10.6 Hazardous decomposition products:

- · Hazardous decomposition products formed under fire conditions.
- Exposure to high temperature; may decompose revealing carbon oxide, toxic and flammable vapors.

10.7 Hazardous polymerization:

· None.

11. TOXICOLOGICAL INFORMATION

11.1 General Information

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

11.2 Acute toxicity

| Substance or mixture [CAS#] | Content | LD50 Oral | LD50 Dermal | LD50 Inhalation |
|---|---------|-------------|-------------|-----------------|
| Pentane (mixed isomers) [CAS#109-66-0] | x <7 | >2000 mg/kg | >2000 mg/kg | 5 mg/l |

11.3 Skin corrosion/irritation and Eye damage/irritation:







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- on the skin: May cause skin irritation.
- on the eye: Dusts may cause eye irritation.

11.4 CMR effects (Carcinogenity):

· IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

11.5 CMR effects (Mutagenicity and Toxicity for reproduction):

No data was available concerning mutagenicity and reproductive toxicity

11.6 Other Toxicological Effects:

| Allergic Effects | No data available |
|--|-------------------|
| Effects on Repeated Doses Chronic Exposures | No data available |
| Chronic Exposures | wo adia avanaoie |
| Sensitization | No data available |
| Developmental Toxicity | N - J - 4 |
| Developmental Toxicity (Teratogenicity) | No aata available |
| Fertility | No data available |

11.7 STOT-single/repeated exposures:

| STOT-single exp | osure No data available |
|-------------------|-------------------------|
| STOT-repeated exp | osure No data available |

11.8 Symptoms related to the physical, chemical and toxicological characteristics:

| In case of inhalation | May cause upper respiratory tract irritation |
|-------------------------|--|
| In case of skin contact | May cause skin irritation. |
| In case of eye contact | Dusts may cause eye irritation. |
| In case of ingestion | May be harmful if swallowed |

11.9 Additional Toxicological Information:

- · Toxicological classifications are based on available knowledge and information
- · EEC classification: Harmful.
- The special effects to health are considered by taking into account the information in section 3.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

Harmful to aquatic life with long lasting effects.

Toxicity to fish:

· No data available

Toxicity to daphnia and other aquatic invertebrates

· No data available

Toxicity to bacteria

No data available





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|----------------------|--|----------|--|--|---|
| 12.2 Photo d | legradation | | | | |
| | ta available. | | | | |
| 12.3 Effects | on Waste Water Treatment Plants | | | | |
| Not de | termined. | | | | |
| 12.4 Mobilit | y | | | | |
| So | lid lubility in water: Not soluble | | | | |
| | luble in aromatics, halogenated solvents fer to ecotoxicity. | s and ke | tones. | | |
| | Water threat class | WGK | 2 – Hazardous for | water | |
| | Clean Water Impact | No do | ıta available | | |
| Known or | predicted environmental distribution | No do | ıta available | | |
| 12.5 Results | of PBT and vPvB assessment | | | | |
| Biotic | | | | | |
| Ready | v biodegradability: | | No Data available | ? | |
| Abiotic: | | | | | |
| Hydro | olysis as a function of pH: | | No data available | | |
| Photo | lysis: | | No data available | | |
| Atmos | spheric oxidation: | | No data available | | |
| Persisten | ce and degradability: | | | | |
| | n Potential of the products | | | , moderate tion of pentane i | S |
| The half-life o | of degradation | | Pentane | is expected to he I day half-life o | |
| _ | radation of product content in the evalu eatment plants | ation of | No data d | available | |
| Bioaccum | ulation Potential : | | | | |
| Biological en | vironment (biota) accumulation potentic | ıl | No experimental do bioaccumulation po and ingredients. | ~ | |
| Potential - nu | trients pass through | | No data available | | |
| | lues - Log Kow , Sw and BCF | | No data available | | |
| • | nal information | | | | |
| \cdot Aq | nuatic toxicity: Hazardous to the aquatice the sections 6, 7, 13, 14 and 15. | enviror | nment | | |



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13. DISPOSAL CONSIDERATIONS

13.1 Product / Packaging disposal

- Hazardous waste according to Waste Catalogue Ordinance (AVV).
- If there is no way of recycling it must be disposed of in compliance with the respective national and local regulations.

13.2 Contaminated packaging

- Collection of small amounts of substance: Collection vessels must be clearly labelled with a systematic description of their contents.
- If there is product residue in the emptied container, follow directions for handling on the container's label.
- Contaminated packaging must be emptied of all residues and can be recycled following appropriate cleaning.

13.3 Disposal Methods

- The generation of waste should be avoided or minimized wherever possible.
- Store the vessels in a well-ventilated location. Entrust them to the appropriate authorities for disposal.
- Waste packaging should be recycled.
- Incineration or landfill should only be considered when recycling is not feasible.
- This material and its container must be disposed of in a safe way.
- *Empty containers or liners may retain some product residues.*
- Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

13.4 European Waste Catalogue

The final classification has to be done together with the local waste disposal company / authority.

14. TRANSPORT INFORMATION

| | ADR^{10}/RID^{11} | ADNR | $IMDG^{12}$ | ICAO ¹³ /IATA ¹⁴ |
|--|--------------------------|-----------------------|----------------|--|
| TRANSPORTATION | Road | River | Marine | Airways |
| PROPER SHIPPING NAME | Not classified as | dangerous in the mean | ing of transpo | ort regulations. |
| UN/ID No. | - | - | - | - |
| CLASS | - | - | - | - |
| PACKAGING GROUP | | | | |
| LABELLING NO | - | | | |
| CLASSIFICATION CODE | - | - | - | - |
| HAZARD NO (HIN NO) | - | | | |
| EmS | | | - | |
| MARINE Pollutant | | | No | |
| Road Transport Notes: This product is NOT regulated of | as a hazardous material. | <u> </u> | · | |





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15. REGULATORY INFORMATION

15.1 Safety, Health And Environmental Regulations / Legislation Specific For The Substance EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Other EU regulations

Europe inventory: Contents of this mixture are listed or exempted.

Priority List Chemicals: Not listed

15.2 Chemical Safety Assessment

No data available

15.2.1 HAZARD

CLP classification according to Annex VI of CLP (Regulation (EC) No 1272/2008)

- · Reproductive toxicity, Category 2, H361d
- · Effects on or via lactation, H362
- · Hazardous to the aquatic environment: Chronic hazard, Category 3, H412

15.2.2 RISK

- · Suspected of damaging the unborn child.
- · May cause harm to breast-fed children.
- Harmful to aquatic life with long lasting effects.

15.3 INTERNATIONAL REGULATIONS

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 and ISO 11014:2009. This product is classified according to EU Directive 67/548/EC and GHS/CLP.

16. OTHER INFORMATION

16.1 Other information

- For additional information regarding KAR-YAPI TASARIM KARTONPİYER İNŞ. İML. TURZ. TAŞ. SAN. Ve TİC. A.Ş products please contact the KAR-YAPI TASARIM KARTONPİYER İNŞ. İML. TURZ. TAŞ. SAN. Ve TİC. A.Ş; Şule DEMİRAL
- The above information complies with the 199/45/EC and 1907/2006 Directives and their amendments.
- · In all cases of potential poisoning supportive therapy is of the utmost importance.

16.2 Related Person





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· Contact Person: Şule DEMİRAL

· Prepared by: Selcuk Bilgin (Che.Eng) - DORUK KIMYASAL YON. SIS. SAN. VE TİC. LTD STİ

Expert Accreditation No: <u>TSE GBF-1.0348 04.06.2012</u>

16.3 Revision Date, Version and SDS no

Date : December 26, 2014

Version: 1.0MSDS No: 444002

16.4 Reason of re-issue

Compiling according to Regulation (EC) No 1272/2008

16.5 Relevant R-, H- and EUH-phrases (number and full text):

| H225 | Highly Flammable liquid and vapour |
|------|---|
| H336 | May cause drowsiness or dizziness |
| H304 | May be fatal if swallowed and enters airways |
| H361 | Suspected of damaging fertility or the unborn child |
| H362 | May cause harm to breast-fed children |

H411 Toxic to aquatic life with long lasting effects.

16.6 Legal disclaimer

- The purpose of the above information is to describe the products only in terms of health and safety requirements.
- The information given should not, therefore, be construed as guaranteeing specific properties or as specification.
- · Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.
- 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 above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any
- · process or if the material is altered or processed, unless specified in the text.
- The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.

⁸ Mg/m³:. (760 mm of mercury pressure), the amount in milligrams of material in 1 m3 of air at a pressure20 oC and 101.3 kPa



¹ SDS: Safety Data Sheet

² CLP:Classification Laballing and Packaging

³ GHS:Global Harmonised System

⁴ EINECS: European Inventory of Chemicals

⁵ CAS: service record number of chemicals.

⁶ TWA: measured or calculated for the reference period specified 8-hour time-weighted average

⁷ STEL:, the exposure limit value should not be exceeded for a period of 15 minutes unless another period indicated.



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⁹ ppm: 1 m3 of air in the amount of the substance in milliliters (ml / m3)

ADR: EuropeanAgreementconcerningthe International Carriage of Dangerous Goodsby Road

¹¹ RID: RegulationsConcerningthe International Transport of Dangerous GoodsbyRail

¹² IMDG: International MaritimeCodefor Dangerous Goods ¹³ ICAO: International CivilAviationOrganization

¹⁴ IATA: International Air Transport Association