



MATERIAL SAFETY DATA SHEET

1 . PRODUCT AND COMPANY INFORMATION

Product Name : İzocam Foamboard Extruded Polystyrene (XPS)

Manufacturer : İzocam Ticaret ve Sanayi A.Ş.
Kocaeli Gebze V (Kimya) Organize Sanayi
Bölgesi, Çerkeşli Köyü Üzeri, Kocabayır Mevkii,
Dilovası/Kocaeli - TÜRKİYE

Telephone No : + 90 262 7546383 (08:00 – 17:30)

Emergency Contacts : + 90 216 3656745 (Export Manager)
+ 90 262 7546686 (Engineering Manager)

2 . COMPOSITION AND INGREDIENT INFORMATION

Substance	Chemical Name	Amount Weight %	CAS No
Polystyrene	Ethylbenzene Homopolymer	Max. 90	9003-53-6
Blended Blowing Agent	DME, CO ₂ or HFCs	Max. 10	Proprietary
HBCD	Hexabromocyclo-dodecane		14807-96-6

Non Hazardous Statement : The remaining components of this product are non-hazardous or are in a small enough quantity as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product.



3 . HAZARDS IDENTIFICATION

Emergency Overview : To prevent ignition, avoid smoking, keep from open flames and high temperatures.

Grinding sawing or fabrication activities can produce dust particles which under certain conditions may ignite or form explosive dust atmospheres.

Route of Exposure : Eye contact, Inhalation

This material is not considered a carcinogen

Fire and Explosion Hazards : Produces dense black smoke while burning.

Toxic fumes may be released in case of fire

Potential Health Effects

Acute (short term) :

Eye : Dust may cause slight irritation.

Fumes/vapor released during thermal operations such as hot-wire cutting may cause eye irritation.

Skin : No effects expected. Chronic skin conditions may temporarily worsen from exposure to this product.

Inhalation : Dust may cause irritation of respiratory tract.

Ingestion : Ingestion of this product is unlikely.

Chronic (long term) : There is no known chronic health effect connected with long-term use or contact with this product.



4 . FIRST AID MEASURES

Means to first aid

Information according to the different exposure route

Inhalation : Under normal industrial use, there is no or little dust present.

Move person to fresh air.

If symptoms persist, seek medical attention.

Eye Contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Do not rub or scratch eyes.

Seek medical attention if irritation persists.

Skin Contact : Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.

Ingestion : Accidental ingestion of this material is unlikely. If this does occur, rinse mouth thoroughly, watch person to make sure intestinal blockage does not occur.

If symptoms persist, call a physician.

5 . FIRE FIGHTING MEASURES

Auto Ignition Temperature : Not Applicable

Lower Flammable/Explosive Limit : Not Applicable

Upper Flammable/Explosive Limit : Not Applicable

Extinguishing Media : Water fog, foam, CO₂ or dry chemical.

Unsuitable Extinguishing Media : None.



Protective Equipment

: Wear appropriate self-contained breathing apparatus (SCBA) and full fire fighting protective gear in a sustained fire.

Hazardous Combustion Byproducts

: Carbon monoxide, carbon dioxide, styrene. Small quantities of hydrogen fluoride and fluorine could be released. Other undetermined compounds could be released in small quantities.

6 . ACCIDENTAL RELEASE MEASURES

Personel Precautions

: Avoid contact with eyes and inhalation.

Environmental Precautions

Methods for Containment

: This material will settle out of the air. Prevent from spreading by covering, diking or other means.

Methods for Cleanup

: Use an industrial vacuum cleaner with a high efficiency filter to clean up dust. Avoid dry sweeping.

Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water.

7 . HANDLING AND STORAGE

Handling

Technical Measures

: No special requirement is needed.

Precautions

: When working at height care should be taken in strong winds.

Avoid dust formation. Do not breathe dust.

Wear personal protective equipment.

Special ventilation is not normally required when handling the product. Cutting operation may lead to release of blowing agent(s)



remaining in the cellular structure. Provide adequate ventilation especially in unventilated space for not to reach lower flammable limit.

Safe Handling Device : Not relevant

Storage

Technical Measures : No special requirement is needed.

Suitable Storage Condition : Materials shall be stored off ground protected from sunlight, such as by a light colored opaque polyethylene film or warehouse roof and ventilated to prevent excess temperature (above 75 °C).

Storage of large quantities (especially in an unventilated space) may cause build-up of combustible vapors due to release of blowing agent. Minimize and keep under control heat/energy sources in the storage area. Release of blowing agent may cause faster corrosion or rust formation. Keep product in its packaging until use to minimize potential dust generation. Material should be kept dry and undercover.

Incompatible Materials : See Section 10

Packing Material : Delivered packed in PE Film.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls : Provide local exhaust and/or general ventilation to maintain exposure below regulatory and recommended limits.

Dust collection system must be used in transferring operations, cutting or machining or other dust generating processes, such as using power tools. Vacuum or wet clean-up methods should be used.

Grinding, cutting, sawing or fabrication activities that cut large numbers of interior foam cells can



release localized amounts of flammable residual blowing agent or release dust particles that under certain conditions may ignite or form explosive dust atmospheres.

If adhesives are to be used with this product follow the adhesive manufacturer's guidance carefully.

Personal Protection : Special protection is not normally required. Where necessary, including further processing, follow the below recommendations

Eye/Face Protection : Safety glasses with side-shields.

Skin Protection Description : Protective gloves.
Long sleeved shirt and long pants.

Respiratory Protection : When workers are facing airborne particulate/dust concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations: Wash hands before breaks and immediately after handling the product.

Remove and wash contaminated clothing before re-use.

Exposure Guidelines : In accordance with local regulations and procedures in force.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Solid

Color : Pink

Odor : No detectable odor

Ph : Does not apply

Flammability Limits : B1 according to DIN 4102
E according to EN 13501-1



<u>Auto Ignition Temperature</u>	: Not relevant
<u>Melting Point</u>	: Softens above 94 °C
<u>Boiling Point</u>	: Decomposes over 300°C
<u>Max. Service Temperature</u>	: 75 °C
<u>Flash Point</u>	: Above 300 °C
<u>Density</u>	: 20 – 52 kg/m ³
<u>Solubility in Water</u>	: Insoluble and generally chemically inert.

10 . STABILITY AND REACTIVITY

<u>Chemical Stability</u>	: Stable under normal conditions.
<u>Incompatible Chemicals</u>	: Hydrocarbons, esters and amines. Keep away from organic solvents or materials containing volatile organic compounds.
<u>Hazardous Polymerization</u>	: Does not occur.
<u>Hazardous Decomposition Products</u>	: None, except in fire.
<u>Products of Combustion</u>	: Those normally associated with combustion of organic hydrocarbon materials and should be considered as toxic. Product will burn and generate dense smoke.

11 . TOXICOLOGICAL INFORMATION

<u>Acute Toxicity</u>	: Dusts may cause mechanical irritation to eyes and skin. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract.
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Inhalation may cause coughing, nose and throat irritation, and sneezing. High exposures may cause difficulty breathing, congestion, and chest tightness.

12 . ECOLOGICAL INFORMATION

Applies to product :

Ecotoxicity

: It is not expected to cause harm to animals, plants or fish.

Product without any known negative environmental effects. Positive effects on the environment through the use as thermal insulation. Product which can be recycled.

13 . DISPOSAL CONSIDERATIONS

Waste From Residues

: Dispose of in accordance with regulations and procedures in force.

Contaminated Packaging

: Dispose of in accordance with regulations and procedures in force.

European Waste Catalogue

: 07 02 13 – Waste plastic materials

Eventually contact the manufacturer

14 . TRANSPORTATION INFORMATION

No special precautions.



15 . REGULATORY INFORMATION

This material is not hazardous according to European Directive 99/45/EC, 67/548/EEC and their latest Amendment

16 . OTHER INFORMATION

Person who wish to obtain more detailed information can contact the producer (address on first page of this sheet)

Information given in this data sheet is based on the state of our knowledge regarding this material as of **07.12.2012**. It is given in good faith.

Reasonable care has been taken in the preparation of this information but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

The attention of users is drawn to possible risks taken when the product is used for other application than the ones it has been designed for.