



SAFETY DATA SHEET

EUROCELL FP.1

According to Regulation (EC) No 1907/2006, Annex II, as amended.
Commission Regulation (EU) 2020/878 of 18 June 2020.

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name EUROCELL FP.1

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

Identified uses

- SU12 Manufacture of plastics products, including compounding and conversion
- SU19 Building and construction work
- PC32 Polymer preparations and compounds
- ERC5 Use at industrial site leading to inclusion into/onto article
- ERC11a Widespread use of articles with low release (indoor)
- ERC12a Processing of articles at industrial sites with low release

Used mainly as raw material for the manufacturing of foamed thermal insulation and for an extensive range of cushioning and insulation packaging. The finished goods are produced with a molding process combined with the use of steam.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier

Ravago EPS Kimya A.Ş
 Çoraklar Mh. 5000 Sk. No:19 AOSB
 Aliağa/ İzmir / TURKEY
 Tel: +90 850 314 70 99
 info.eps.tr@ravago.com

1.4. Emergency telephone number

Emergency telephone RAVAGO: +90 850 314 70 99

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Additional information Classification (Regulation (EC) No. 1272/2008).

2.2. Label elements

Hazard statements NC Not Classified

Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P243 Take action to prevent static discharges.
- P273 Avoid release to the environment.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Supplemental label information EUH018 In use may form flammable/explosive vapour-air mixture.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.



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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description Polystyrene (CAS N° 9003-53-6), containing pentane isomers as blowing agent and flame retardant.

| | |
|--------------------------|----------------------|
| Pentane | <5% |
| CAS number: 109-66-0 | EC number: 203-692-4 |
| Classification | |
| Flam. Liq. 2 - H225 | |
| STOT SE 3 - H336 | |
| Asp. Tox. 1 - H304 | |
| Aquatic Chronic 2 - H411 | |

| | |
|--------------------------|----------------------|
| isopentane | <2% |
| CAS number: 78-78-4 | EC number: 201-142-8 |
| Classification | |
| Flam. Liq. 1 - H224 | |
| STOT SE 3 - H336 | |
| Asp. Tox. 1 - H304 | |
| Aquatic Chronic 2 - H411 | |

The full text for all hazard statements is displayed in Section 16.

Composition comments Workplace exposure limits are shown in section 8.
This product contains min 93% of polystyrene.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|-----------------------------------|---|
| General information | Move affected person to fresh air at once. |
| Inhalation | Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. |
| Ingestion | Rinse mouth thoroughly with water. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately. |
| Skin contact | Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if symptoms are severe or persist after washing. |
| Eye contact | Continue to rinse for at least 15 minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention immediately. |
| Protection of first aiders | First aid personnel should wear appropriate protective equipment during any rescue. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|----------------------------|--|
| General information | See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation | Headache. Drowsiness, dizziness, disorientation, vertigo. |



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| | |
|---------------------|--|
| Ingestion | May cause discomfort if swallowed. May cause stomach pain or vomiting. |
| Skin contact | May cause irritation. Redness. |
| Eye contact | May irritate eyes. |

4.3. Indication of any immediate medical attention and special treatment needed

| | |
|-----------------------------|------------------------|
| Notes for the doctor | Treat symptomatically. |
|-----------------------------|------------------------|

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|---------------------------------------|---|
| Suitable extinguishing media | The product is not flammable. Extinguish with foam, carbon dioxide, dry powder or water fog. Larger fires: Alcohol-resistant foam. Water spray. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |

5.2. Special hazards arising from the substance or mixture

| | |
|--------------------------------------|---|
| Specific hazards | Forms explosive mixtures with air. |
| Hazardous combustion products | Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO ₂). |

5.3. Advice for firefighters

| | |
|--|--|
| Protective actions during firefighting | Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities. |
| Special protective equipment for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|-----------------------------|--|
| Personal precautions | Follow precautions for safe handling described in this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take care as floors and other surfaces may become slippery. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. |
|-----------------------------|--|

6.2. Environmental precautions

| | |
|----------------------------------|---|
| Environmental precautions | Avoid discharge into drains or watercourses or onto the ground. Avoid the spillage or runoff entering drains, sewers or watercourses. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air). |
|----------------------------------|---|

6.3. Methods and material for containment and cleaning up

| | |
|--------------------------------|--|
| Methods for cleaning up | Wear protective clothing as described in Section 8 of this safety data sheet. Collect mechanically. Collect and place in suitable waste disposal containers and seal securely. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. |
|--------------------------------|--|



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6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Static electricity and formation of sparks must be prevented. Use explosion-proof electrical equipment. Ground/bond container and receiving equipment. Provide adequate ventilation. Keep away from food, drink and animal feeding stuffs. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours and spray/mists. Wear protective clothing as described in Section 8 of this safety data sheet.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store away from incompatible materials (see Section 10). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed, in a cool, well ventilated place. The use of explosive atmosphere detectors is recommended.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Pentane

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 3000 mg/m³

1,1'-(isopropylidene)bis[3,5-dibromo-4-(2,3-dibromo-2-methylpropoxy)benzene]

Long-term exposure limit (8-hour TWA): 10 mg/m³ inhalable dust

Long-term exposure limit (8-hour TWA): 5 mg/m³ respirable dust

isopentane

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 3000 mg/m³

WEL = Workplace Exposure Limit.

Pentane (CAS: 109-66-0)

DNEL

Workers - Inhalation; Long term systemic effects: 3000 mg/m³

Workers - Dermal; Long term systemic effects: 432 mg/kg

General population - Inhalation; Long term systemic effects: 643 mg/m³

General population - Dermal; Long term systemic effects: 214 mg/kg

General population - Oral; Long term systemic effects: 214 mg/kg



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| | |
|-------------|-----------------------------------|
| PNEC | Fresh water; 230 µg/l |
| | marine water; 230 µg/l |
| | Sediment (Freshwater); 1.2 mg/kg |
| | Sediment (Marinewater); 1.2 mg/kg |
| | Soil; 0.55 mg/kg |
| | STP; 3600 µg/l |

1,1'-(isopropylidene)bis[3,5-dibromo-4-(2,3-dibromo-2-methylpropoxy)benzene] (CAS: 97416-84-7)

| | |
|-------------|---|
| DNEL | Workers - Inhalation; Long term systemic effects: 7.05 mg/m ³ |
| | Workers - Dermal; Long term systemic effects: 1 mg/kg/day |
| | Workers - Oral; Long term : 5 mg/kg |
| | Consumer - Inhalation; Long term : 17.4 mg/m ³ |
| | Consumer - Dermal; Long term : 50 mg/kg/day |
| | Consumer - Oral; Long term : 5 mg/kg/day |
| | General population - Inhalation; Long term systemic effects: 1.74 mg/m ³ |
| | General population - Dermal; Long term systemic effects: 0.5 mg/kg |

| | |
|-------------|------------------------------------|
| PNEC | STP; 100 mg/l |
| | Sediment (Freshwater); 381 mg/kg |
| | Sediment (Marinewater); 38.1 mg/kg |
| | Soil; 76.1 mg/kg |

isopentane (CAS: 78-78-4)

| | |
|-------------|--|
| DNEL | Workers - Inhalation; Long term systemic effects: 3000 mg/m ³ |
| | Workers - Dermal; Long term systemic effects: 432 mg/kg |
| | General population - Inhalation; Long term systemic effects: 643 mg/m ³ |
| | General population - Dermal; Long term systemic effects: 214 mg/kg |

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment that provides appropriate eye and face protection should be worn. Tight-fitting safety glasses.



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| | |
|--|--|
| Hand protection | Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. (EN ISO 374) The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. For exposure up to 8 hours, wear gloves made of the following material: Fluoro rubber. |
| Other skin and body protection | Wear anti-static protective clothing if there is a risk of ignition from static electricity. (EN ISO 1149-5) Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. (EN ISO 13287) |
| Hygiene measures | Provide eyewash station and safety shower. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Wash contaminated clothing before reuse. |
| Respiratory protection | Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used. Wear a respirator fitted with the following cartridge: Gas filter, type AX. |
| Environmental exposure controls | Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Prevent the material from entering drains, surface and ground water and soil. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Appearance | Solid. Granules. |
| Colour | White. |
| Odour | Characteristic. |
| Odour threshold | Not determined. |
| pH | Not applicable. |
| Melting point | Undetermined. |
| Initial boiling point and range | Undetermined. |
| Flash point | < 50°C |
| Evaporation rate | Not applicable. |
| Evaporation factor | No information available. |
| Flammability (solid, gas) | Not determined. |
| Upper/lower flammability or explosive limits | Lower flammable/explosive limit: 1.4 %(V) Upper flammable/explosive limit: 7.8 %(V) |



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| | |
|----------------------------------|---|
| Vapour pressure | Not applicable. |
| Vapour density | 2.5 (Air = 1.0) |
| Relative density | 1020-1050 kg/m ³ @ 20°C |
| Bulk density | 600 kg/m ³ |
| Solubility(ies) | Insoluble in water. |
| Partition coefficient | Not determined. |
| Auto-ignition temperature | Product is not self-igniting. |
| Decomposition Temperature | Not determined. |
| Viscosity | Not applicable. |
| Explosive properties | Product does not present an explosion hazard. In use may form flammable/explosive vapour-air mixture. |
| Oxidising properties | No information available. |
| Particle characteristics | See item 3. |
| Ignition temperature | 285 °C |
| 9.2. Other information | |
| Other information | No information available. |

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions May polymerise. Forms explosive mixtures with air.

10.4. Conditions to avoid

Conditions to avoid Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented.

10.5. Incompatible materials

Materials to avoid No information available.

10.6. Hazardous decomposition products

Hazardous decomposition products The release rate of pentane increases with temperature. The pellets expand with the rapid evolution of pentane at 70-75 °C. Will decompose at temperatures exceeding 200°C. Thermal decomposition or combustion products may include the following substances: Hydrocarbons. Carbon monoxide (CO). Carbon dioxide (CO₂). May generate dense smoke.



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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity

None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Not relevant. Solid.



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11.2. Information on other hazards

Information on other hazards This product does not contain any known or suspected endocrine disruptors.

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity Based on available data the classification criteria are not met.

Ecological information on ingredients.

Pentane

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates EC₀, 48 hour: > 100 mg/l, Daphnia magna
EC₅₀, 48 hour: > 100 mg/l, Daphnia magna
EC₁₀₀, 48 hour: > 100 mg/l, Daphnia magna (OECD 202)

Acute toxicity - aquatic plants EbC₁₀, 72 hour: > 100 mg/l, Desmodesmus subspicatus
EbC₅₀, 72 hour: > 100 mg/l, Desmodesmus subspicatus
EbC₉₀, 72 hour: > 100 mg/l, Desmodesmus subspicatus (OECD 201)

isopentane

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hour: 12,8 mg/l, Pimephales promelas (Fat-head Minnow)
LL₅₀, 96 hour: 34,05 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hour: 2,3 mg/l, Daphnia magna
EL₅₀, 48 hour: 59,44 mg/l, Daphnia magna

Acute toxicity - aquatic plants EL₅₀, 72 hour: 25,12 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms EL₅₀, 48 hour: 29,28 mg/l, Tetrahymena pyriformis

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Ecological information on ingredients.

Pentane

Persistence and degradability The product is readily biodegradable.

isopentane

Biodegradation The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.



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Partition coefficient Not determined.

Ecological information on ingredients.

Pentane

Bioaccumulative potential No potential for bioaccumulation.

isopentane

Bioaccumulative potential No potential for bioaccumulation.

12.4. Mobility in soil

Mobility The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Endocrine disrupting properties

Endocrine disrupting properties The product does not contain any endocrine disrupting substance.

12.7. Other adverse effects

Other adverse effects Do not allow runoff to sewer, waterway or ground. Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous. Must not be disposed together with household garbage. Do not allow product to reach sewage system. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

Disposal methods

Contaminated casings should be emptied as best as possible, otherwise you can use them again after appropriate cleaning. Deposition is carried out in accordance with official instructions. Once cleaned, the container can be reused or the material can be recycled. Alternatively, incineration at a time of 2 seconds and a temperature above 1200 °C, dispatch to wet scrubbing facilities or authorised landfills are appropriate disposal methods.

Waste class

07 02 13 waste plastic



EUROCELL FP.1

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SECTION 14: Transport information

14.1. UN number or ID number

UN No. (ADR/RID) 2211

UN No. (IMDG) 2211

UN No. (ICAO) 2211

UN No. (ADN) 2211

14.2. UN proper shipping name

Proper shipping name (ADR/RID) POLYMERIC BEADS, EXPANDABLE

Proper shipping name (IMDG) POLYMERIC BEADS, EXPANDABLE

Proper shipping name (ICAO) POLYMERIC BEADS, EXPANDABLE

Proper shipping name (ADN) POLYMERIC BEADS, EXPANDABLE

14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID classification code M3

ADR/RID label 9

IMDG class 9

ICAO class/division 9

ADN class 9

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ADN packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.



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| | |
|--|----------|
| EmS | F-A, S-I |
| ADR transport category | 3 |
| Emergency Action Code | 2Y |
| Hazard Identification Number (ADR/RID) | 90 |
| Tunnel restriction code | (D/E) |
| Limited quantities (ADR) | 5 KG |

14.7. Maritime transport in bulk according to IMO instruments

| | |
|---|-----------------|
| Maritime transport in bulk according to IMO instruments | Not applicable. |
|---|-----------------|

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|--|--|
| National regulations | Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits. Commission Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) 2020/878 of 18 June 2020. |
| Guidance | REACH restriction of synthetic polymer microparticles (Entry 78 of Annex XVII REACH, as introduced by Commission Regulation (EU) 2023/2055) |
| Authorisations (SI 2020 No. 1577 Annex XIV) and REACH 1907/2006, Annex XIV | No specific authorisations are known for this product. |
| Restrictions (SI 2020 No. 1577 Annex XVII) and REACH 1907/2006, Annex XVII | The synthetic polymer microparticles supplied is subject to Mandatory statement (REACH Restriction on SPMs) conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council. |
| Seveso Directive - Control of major accident hazards | Not relevant. |
| Customs tariff number | 3903 Polymers of styrene |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.



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SECTION 16: Other information

| | |
|---|--|
| Abbreviations and acronyms used in the safety data sheet | ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC50: Lethal Concentration to 50 % of a test population. LD50: Lethal Dose to 50% of a test population (Median Lethal Dose). EC ₅₀ : 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative. |
| Classification abbreviations and acronyms | Aquatic Chronic = Hazardous to the aquatic environment (chronic) |
| Key literature references and sources for data | This SDS is prepared based on the information received from the product owner. Source: European Chemicals Agency, http://echa.europa.eu/ |
| Training advice | Read and follow manufacturer's recommendations. Only trained personnel should use this material. |
| Revision comments | It has been revised. |
| Issued by | Esra BAL / CRAD gbf@crad.com.tr Tel.:+90 216 3354600 |
| Revision date | 21/11/2025 |
| Revision | 4.1 |
| Supersedes date | 09/07/2021 |
| SDS number | 12843 |
| Hazard statements in full | H224 Extremely flammable liquid and vapour. H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. |

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.