

**UNIPOL R-EPS** 

Issue date: 4/4/2023

Replaces: 10/1/2023 Version: 2.2

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

- 1.1 Product identification Product identifier UNIPOL R-EPS Regular Expandable Polystyrene. Regular EPS, Expandable polystyrene, Synonyms poly(phenylethene). Unique formula identification (UFI) No UFI required for a non-hazardous mixture 1.2 Relevant identified use of the substance or the mixture and uses advised against Used primarily for the manufacture of foamed thermal Identified use insulation. This product should not be used for applications other than Use advised against identified above without seeking prior advice from the manufacturer. 1.3 Details of the safety data sheet supplier Supplier Unipol Holland BV PO Box 5340 AV Oss The Netherlands Telephone + 31 412 643 243 Email algemeen@unipol.nl
- **Emergency telephone number** Emergency telephone number National Poisons Information Centre

1.4

+ 31 (0)412 643 243 + 31 (0)88 - 755 8000 National Poisons Information Centre (NVIC; only for professional emergency services staff in case of emergencies)

### **SECTION 2: HAZARDS IDENTIFICATION**

2.1 Classification of the substance or mixture EU Regulation No 1272/2008 (CLP) Not classified. 2.2 Label elements Volgens Verordening (EC) No. 1272/2008 (CLP). Pictogram(s) None. Signal word None. Hazard statements EUH018: In use, may form flammable/explosive vapour-air mixture. EUH210: Safety data sheet available on request. P210: Keep away from heat/sparks/open flames/hot Safety measures surfaces. - No smoking. P233: Keep container tightly closed. P243: Take precautionary measures against static discharge. P403 + P235: Store in a well-ventilated place. Keep cool. 2.3 Other hazards Product may release pentane, a flammable hydrocarbon. May cause irritation to skin and eyes. Does not contain any PBT or vPvB components. Contains



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no known components with endocrine disrupting properties above 0.1%.

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2. Mixture

Mixture of expandable polystyrene (EPS) and pentane isomers as blowing agent

Chemical name	%W/W	CAS No (EG No)	REACH Registration No	Hazard statements (CLP 1272/2008)	Specific CLP details
Pentane	< 6 %	109-66-0 (203-692-4)	01-2119459286-30	Flammable liquids, Cat 1; H224. Aspiration hazard. Cat 1; H304. STOT SE 3; H336. Aquatic chronic, Cat 2; H411. EUH066.	EC Index No: 601-006-00-1
2-Methylbutane; iso-pentane	< 1.5 %	78-78-4 (201-142-8)	01-2119475602-38	Flammable liquids, Cat 1; H224. Aspiration hazard. Cat 1; H304. STOT SE 3; H336. Aquatic chronic, Cat 2; H411. EUH066.	EC Index No: 601-085-00-2
Dicumyl peroxide; DCP	< 0.3 %	80-43-3 (201-279-3)	01-2119541688-27	Org. Peroxide Type F; H242. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Repr. 1B; H360D. Aquatic chronic, Cat. 2; H411.	EG Index No: 617-006-00-X

For the full text of each relevant hazard statement, see section 16.

Particle characteristics - Nanoform

Not applicable.

#### **SECTION 4: FIRST AID MEASURES**



#### 4.1 Description of first aid measures

Inhalation

Contact with skin

Contact with eyes

Ingestion

- 4.2 Most important symptoms and effects, both acute and delayed
- 4.3 Indication of immediate medical care and special treatment required

Move the victim to fresh air. If symptoms persist, obtain medical assistance. Wash the skin with water and soap. If symptoms persist, obtain medical attention. Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. If symptoms persist, obtain medical attention. Unlikely to be hazardous if swallowed. If swallowed it will not lead to vomiting. Obtain medical attention immediately after swallowing. Inhalation: headache, dizziness. Eye and skin contact: redness, irritation.

Treat according to symptoms.

#### **SECTION 5: FIREFIGHTING MEASURES**

Product is not classified as flammable, but will burn on contact with flames or exposure to high temperature (see Section 9).

UNIPOL		-	Data Sheet
EF	EPS GRANULATEN UNIPOL		EPS
		<b>Issue date:</b> 4/4/202	<b>Replaces:</b> 10/1/2023 Version: 2.2
5.1	Extinguishing media		
	Suitable extinguishing me	dia	Water spray, foam, dry powder or CO2.
	Unsuitable extinguishing r	nedia	Do not use water jet.
5.2	Special hazards arising from mixture	the substance or	This product may produce hazardous fumes in case of fire. Hazardous decomposition product(s): Carbon monoxide, Carbon dioxide, styrene, aliphatic hydrocarbons may be released.
5.3	Advice for firefighters		Firefighters must wear full protective clothing including self- contained breathing apparatus. Wear haszmat suit. Keep containers cool by spraying with water if they have been exposed to fire. Flammable concentrations of pentane may accumulate during storage in closed containers.
SEC	TION 6: ACCIDENTAL R	ELEASE MEASU	RES
6.1	Personal precautions, prote and emergency procedures	ctive equipment	Caution - spilled beads may be slippery. Pentane may form an explosive mixture with air. Pentane vapour is heavier than air, be careful near manholes and in confined spaces. Conduct gas measurements where elevated concentrations of pentane may occur and take measures to prevent pentane accumulation. Remove or make safe all sources of ignition. Avoid friction, sparks, or other means of ignition. Take precautionary measures against static discharges. Use only non-sparking tools.
6.2	Environmental precautions		Prevent entry into drains, soil and surface water.
6.3	Containment and cleaning n equipment	nethods and	If safe to do so: - Small spillages: Sweep up and shovel into waste drums or plastic bags. Transfer to a lidded container for disposal or recovery. - Large spillages: Where practicable, use vacuum equipment suitable for use in hazardous locations to collect spilt materials. Transfer to a lidded container for disposal or recovery.

6.4 Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling of the substance or mixture	Provide effective ventilation, including adequate local extraction. Do not inhale gas/vapour. Prevent formation of dust clouds. Keep away from naked flames and other sources of ignition. Extinguish any other fire. Remove or make safe all sources of ignition. Avoid friction, sparks or other means of ignition. The electrical system must be spark-free. Do not smoke during use. Take precautionary measures against static discharge. Ensure adequate earthing. Prevent release to the environment. Permission must be obtained from the competent local authority prior to disposing of spilled material.
	Process hazards	Take precautionary measures against static discharge. To prevent the build-up of static electric charge and also the formation of an explosive pentane-air mixture, containers must be completely emptied during handling, preferably tilt packaging no more than 45°. Line velocity may not exceed 8m/s during normal pumping operations.

See also sections 8 and 13.

EPS GRANULATEN       UNIPOL R-EPS         Issue date: 4/4/2023       Replaces: 10/1/2023 Version: 2.2         All parts of the plant and installations must be electrically bonded and earthed. Check regularly for proper bonding and fottwear. No use of electrical devices (e.g. mobile phone) in the vicinity of the product unless they are explosion-proof.         7.3       Conditions for safe storage, including incompatible products       Flammable concentrations of pentane may rise during storage in closed containers. Poiro to unloading freight containers, open doors and allow to ventilate for one hour. Store containers lightly closed in a cool, well-ventilated place.         Storage in cequirements for storage rooms or vessels       Keep away from direct sunlight and other sources of head or ignitionary measures against static discharge. The electrical system must be kpet cool to limit the release of pentane and provided with an appropriate ventilation system to prevent pentane build-up. Use must be made or measuring instruments that warm of any increase in concentration or explosive partane build-up. Use must be made or measuring instruments be non-sparking. Installations placed in potentially explosive atmospheres must be non-sparking. Installations placed in potentially explosive atmospheres must be non-sparking. Installations placed in potentiality explosive atmospheres must be non-sparking. Installations pla	UNIPOL	Safety D	Data Sheet			
All parts of the plant and installations must be electrically bonded and earthed. Check regularly for proper bonding and earthing. Wear anti-static clothing and fotwear. No use of electrical devices (e.g. mobile phone) in the vicinity of the product unless they are explosion-proof.         7.2 Conditions for safe storage, including incompatible products       Flammable concentrations of pentane may rise during storage in closed containers. Prior to unloading freight containers tightly closed in a cool, well-ventilated place.         7.2 Conditions for safe storage normality of the product unless they are explosion-proof.       Flammable concentrations of pentane may rise during storage in closed containers. Prior to unloading freight containers. Open doors and allow to ventilate for one hour. Store containers tightly closed in a cool, well-ventilated place.         Keep away from direct sunlight and other sources of heat or ignition. Protect from rain and humid conditions. Bulk: Keep under inert gas.         Open-top tanks must be fitted with an open rigid grate. Take precautionary measures against static discharge. The electrical system must be spark-free. The product is usually supplied in cardboard octabins, which are preferably not stacked.         Storage temperature       Storage areas must be kept cool to limit the release of pentane and provided with an appropriate ventilation or explosive pentane/air mixture. The electrical system to prevent pentane/air mixture. The electrical system must be non-sparking. Installations placed in potentially explosive atmospheres must comply with the requirements of ATEX Directive 94/9/EU.         Storage temperature       Stable under normal conditions.         Storage life       Stable under normal conditions.		UNIPOL R-EPS				
<ul> <li>Conditions for safe storage, including incompatible products</li> <li>Conditions for safe storage, including incompatible products</li> <li>Flammable concentrations of pentane may rise during storage in closed containers. Prior to unloading freight containers, open doors and allow to ventilate for one hour. Store containers tightly closed in a cool, well-ventilated place.</li> <li>Keep away from direct sunlight and other sources of heat or ignition. Protect from rain and humid conditions. Bulk: Keep under inert gas. Open-top tanks must be spark-free. The product is usually supplied in cardboard octabins, which are preferably not stacked.</li> <li>Specific requirements for storage rooms or vessels</li> <li>Storage temperature</li> <li>Storage temperature</li> <li>Storage life</li> <li>Storage or handling together with UN Class 1 explosives.</li> <li>Suitable containers</li> <li>Storage or handling together with UN Class 1 explosives.</li> <li>Suitable containers</li> <li>Steel (drums).</li> </ul>		Issue date: 4/4/2023	<b>Replaces:</b> 10/1/2023 Version: 2.2			
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Incompatible materials Avoid storage or handling together with UN Class 1 explosives. Suitable containers Steel (drums).	Storage temperature		Ambient.			
Suitable containersexplosives.Steel (drums).	Storage life		Stable under normal conditions.			
			explosives.			
<b>7.3 Specific end use</b> Mainly used to produce foamed thermal insulation.	7.3 Specific end use		Mainly used to produce foamed thermal insulation.			

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 Control parameters

#### 8.1.1 Occupational exposure limit values

The following limits are for the blowing agent, (pentane is released during processing (expansion) during production).

Source	OEL (8 hr TGG mg/m <sup>3</sup> )	OEL (8 hr TGG ppm)	STEL (mg/m³)	STEL (ppm)	Comment
Netherlands (2006)	1800	-	-	-	Statutory limit value
Europe (IOEL; 2006)	3000	1000	-	-	

2-Methylbutane; iso-pentane (CAS No 78-78-4; EC No 201-142-8). Source www.ser.nl					
Source	OEL (8 hr TGG mg/m <sup>3</sup> )	OEL (8 hr TGG ppm)	STEL (mg/m <sup>3</sup> )	STEL (ppm)	Comment
Netherlands (2006)	1800	-	-	-	Statutory limit value



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Europe (IOEL; 2006)	3000	1000	-	-	
Dicumyl peroxide (CAS	6 No 80-43-3; EC	No 201-279-3). So	ource <u>www.ser.nl</u>		
Source	OEL (8 hr TGG mg/m <sup>3</sup> )	OEL (8 hr TGG ppm)	STEL (mg/m <sup>3</sup> )	STEL (ppm)	Comment
Netherlands (2006)	-	-	-	-	Statutory limit value
Europe (IOEL; 2006)	-	-	-	-	

#### 8.1.2 Biological limit value

Not established.

#### 8.1.3 PNECs and DNELs

n-pentane (CAS No 109-66-0; EC No 203-692-4). Source <u>www.echa.europa.eu</u>			
Limit value (REACH)	Value	Comment	
DNEL inhalation, long-term, systemic (mg/m <sup>3</sup> )	3000		
DNEL dermal, long-term, systemic (mg/kg/day)	432		
PNEC fresh & salt water (µg/L)	-		
PNEC fresh & salt water, sediment (mg/kg sediment, dry weight)	-		
PNEC freshwater, intermittent discharges (µg/L)	-		
PNEC sewage treatment plant (mg/L)	3.6		

		Comment
DNEL inhalation, long-term, systemic (mg/m <sup>3</sup> )	3000	
DNEL dermal, long-term, systemic (mg/kg/day)	432	
PNEC fresh & salt water (µg/L)		
PNEC fresh & salt water, sediment (mg/kg sediment, dry weight)	-	
PNEC freshwater, intermittent discharges (µg/L)		

Dicumyl peroxide (CAS No 80-43-3; EC No 201-279-3). Source <u>www.echa.</u>	europa.eu	
Limit value (REACH)	Value	Comment



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DNEL inhalation, long-term, systemic (mg/m³)	5.6	
DNEL dermal, long-term, systemic (mg/kg/day)	0.8	
PNEC fresh water (µg/L)	2.34	
PNEC fresh water, sediment (mg/kg sediment, dry weight)	2.24	
PNEC sewage treatment plant (µg/L)	100	

#### 8.2 Exposure controls

- 8.2.1 Technical measures
- 8.2.2 Individual protection measures, such as personal protective equipment Eye/face protection



Skin/hand protection



Respiratory protection



Thermal hazards

8.2.3 Environmental exposure control

Use only in well-ventilated areas.

Safety glasses.

Wear suitable gloves. Recommended: impermeable gloves (EN 374).

Material NBR, thickness 0.50mm, impermeable to solids (e.g. Ribiflex S NB 27 S, breakthrough time >480 min). Anti-static shoes type S1, S2 or S3 with PU sole or ESD shoes/boots.

Wear an approved dust mask if dust is generated while handling the product. Type P1 (EN 143) or FFP1 (EN 149) "muzzle" (e.g. GISS FFP1 839959).

Not applicable.

European and local regulations for Volatile Organic Compounds (VOCs) must be met if they apply to the EPS industry.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1 Information on basic physical and chemical properties

(a) Physical state	Solid, small round grains
b) Colour	White.
c) Odour	Odourless
d) Melting point (°C)	Not available
e) Boiling point (°C)	Not available
f) Flammability (solid, gas)	Not flammable
g) Upper Explosive Limit (UEL)	7.8% (v/v) (Pentane)
Lower Explosive Limit (LEL)	1.3% (v/v) (Pentane)
h) Flashpoint (°C)	< -20°C (Pentane) (DIN 51755).
i) Auto-ignition temperature (°C)	285°C (Pentane) (ASTM E-659).
j) Decomposition temperature (°C)	Not available



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k) pH (Value)	Not applicable
I) Kinematic viscosity (mPa.s)	Not determined
m) Solubility (Water)	Insoluble
Solubility (Other)	Soluble in aromatic hydrocarbons, halogenated solvents and ketones
n) Partition coefficient (n-Octanol/water)	Not available
o) Vapour pressure (mm Hg)	Not available
p) Density (g/ml)	1.02-1.05 (1020–1050 kg/m³) @ 20°C (beads)
Bulk density (g/ml)	Approximately 0.6 (600 kg/m <sup>3</sup> ) @ 20°C
q) Vapour density (Air=1)	2.5 (Pentane).
r) Particle characteristics	Nanoform not applicable

9.2 Other information

Softening point 70-75°C (beads expand under release of pentane)

#### **SECTION 10: STABILITY AND REACTIVITY**

10.1	Reactivity	Stable under normal conditions.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	In use, may form flammable/explosive vapour-air mixture.
10.4	Conditions to avoid	Keep away from heat, sources of ignition and direct sunlight.
10.5	Incompatible materials	Avoid storage or handling together with UN Class 1 explosives.
10.6	Hazardous decomposition products	Pentane, styrene monomer, carbon monoxide, trace of hydrogen bromide (in case of fire or during hot wire cutting). When beads are expanded, pentane is released (the release of pentane increases with rising temperatures.

#### SECTION 11: TOXICOLOGICAL INFORMATION

This assessment is based on information from similar products

- 11.1 Information on toxicological effects
  - a) Acute toxicity Inhalation The product may release pentane vapours, which may lead to dizziness, headache and anaesthetic effects at high concentrations. Ingestion Unlikely to be hazardous if swallowed. May cause irritation to skin. b) Irritation c) Serious eye damage/irritation May cause irritation to eyes. d) Respiratory/skin sensitisation No data e) Mutagenicity No data Carcinogenicity No data f) g) Toxicity for reproduction Contains dicumyl peroxide (DCP) classified as H360d. Mixture is not classified as H360.



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	h)	STOT for single exposure	No data
	i)	STOT for repeated exposure	No data
	j)	Aspiration hazard	Contains pentane and iso-pentane which are both classified for aspiration hazard (H304). Mixture is not classified as H304.
11.2	Info	ormation on other hazards	Not applicable.

#### SECTION 12: ECOLOGICAL INFORMATION

This environmental hazard assessment is based on information available for similar products. This product contains substances classified as environmentally hazardous. However, recent studies on aquatic organisms have shown that EPS granules, although containing these substances, do not need to be classified for environmental hazards.

12.1	Toxicity	Aquatic invertebrates: EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static) nominal concentration. The product has low solubility in the test medium. An eluate has been tested. Toxic effects were not observed within the range of solubility.
		Aquatic plants: EC50 (48 h) > 100 mg/l, EC50 (72 h) > 100 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 202, part 1, static) Nominal concentration. The product has low solubility in the test medium. An eluate has been tested. Toxic effects were not observed within the range of solubility.
12.2	Persistence and degradability	The product itself has not been tested. In accordance with the required stability the product is not readily biodegradable. This statement has been derived from the structure of the product. It can be largely eliminated from water by abiotic processes, e.g. mechanical separation.
12.3	Bioaccumulative potential	The product has low potential for bioaccumulation. Bioconcentration factor (BCF) :< 100.
12.4	Mobility in soil	The product is essentially insoluble in water. Expandable polystyrene sinks in freshwater, may float or sink in seawater.
12.5	Results of PBT and vPvB assessment	The product does not comply with the criteria for PBT or vPvB. Does not contain any PBT or vPvB components.
12.6	Endocrine disrupting properties	Contains no known components with endocrine-disrupting properties above 0.1%.
12.7	Other adverse effects	Effect on effluent treatment: Practically non-toxic, EC50>100mg/l, for organisms in wastewater treatment plants (estimated). Pentane has an extremely low Global Warming Potential (< 0.00044) and no Ozone Depletion Potential

#### **RUBRIEK 13: DISPOSAL INFORMATION**

Surplus, unused, old beads may still contain residual pentane. Therefore, the product has to be treated using all the safety measures in place for the fresh material. See also Section 7.

#### 13.1 Waste-treatment methods

Recover or recycle if possible. Remove all packaging for recovery or disposal. Normal disposal is by means of incineration by an accredited waste processor.



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#### 13.2 Other information

Dispose of contents in accordance with local, regional or national legislation.

### **SECTION 14: TRANSPORT INFORMATION**

- 14.1 **UN number**
- 14.2 Proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group

14.7

14.8

- 14.5 **Environmental hazards**
- Special precautions for the user 14.6

Additional information

Sea transport (IMDG)

Air transport (ICAO/IATA)

Hazard label(s)

UN2211 EXPANDABLE POLYMERE BEADS, develops flammable vapour. (PENTANE).

9.

III.

None. Not classified as a marine pollutant.

Keep away from sources of ignition. Transport or conveyance on own production site: Refer to the internal procedures and information provided by this document.

Transport or conveyance outside own production site: Apply the requirements and regulations for the transport of hazardous substances and the manufacturer's recommendations for loading, transporting, and unloading the material safely.

Not applicable.

Hazard Identification Number: 90. Tunnel Restriction Code: D/E. IMDG EMS F-A, S-I.



UN Class 9 miscellaneous hazard label.

#### **SECTION15: REGULATORY INFORMATION**

Transport in bulk according to Annex II of Not

applicable. MARPOL and the IBC Code

15.1 Specific safety, health and environmental regulations and legislation for the substance or mixture

REACH (EC 1907/2006)		
Candidate list for authorisation (Art. 59)	Does not contain any substances on this list.	
Authorisation (title VI) Restrictions (title VII)	Does not contain any substances on this list. Does not contain any substances on this list.	
National regulations	Not applicable (as far as known).	
Chemical safety assessment	Not applicable to the mixture.	

#### SECTION 16: OTHER INFORMATION

This safety data sheet has been prepared in accordance with EU Regulations 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878 (last amendment REACH Annex II).

The following sections have been revised or contain new statements: sections 2.3, 3.2, 11.1, 12.5, 12.6 and 16.

#### LEGENDA

15.2



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OEL	Occupational Exposure Limit (Occupational Exposure Limit)	
IOEL	Indicative Occupational Exposure Limit (Occupational Exposure Limit)	
STEL	Short Term Exposure Limit (Short Term Exposure Limit)	
TWA	Time-weighted average	
PPM	Parts per Million	
STOT	Specific Target Organ Toxicity	
DNEL	Derived No Effect Level	
PNEC	Predicted No Effect Concentration	
PBT	Persistent, Bioaccumulative and Toxic	
vPvB	Very Persistent and Very Bioaccumulative	
Hazard statements and Safety phrases: (EC) No. 1272/2008 (CLP)		
H224	Extremely flammable liquid and vapour	
H304	Heating may cause fire hazard	
H304	May be fatal if swallowed and enters airways	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H336	May cause sleepiness or dizziness	
H411	Toxic to aquatic life with long lasting effects	
EUH066	Repeated exposure may cause skin dryness or cracking	

#### Training advice

Appropriate information on safety when handling, storing and processing the product must be given to employees, based on existing information. A DVD on Fire Safety in 18 European languages is available from Plastics Europe. Contact your EPS supplier for a copy.

#### Disclaimer

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#### Annex with exposure scenario(s) with the extended safety data sheet ("extended SDS") Not applicable