



## SAFETY DATA SHEET ARBOFOAM R

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** ARBOFOAM R

**Container size** 750ml

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

**Identified uses** Sealant. Insulator. Fixative. Filler.

**Uses advised against** Restricted to professional users.

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** Adshead Ratcliffe & Co. Ltd.  
Derby Road, Belper  
Derbyshire.  
DE56 1WJ  
T: (+44) 01773 826661  
F: (+44) 01773 821215  
E: sds.carlisle@ccm-europe.com

#### 1.4. Emergency telephone number

**Emergency telephone** NPIS (National Poisons Information Service): 0344 892 0111 (for medical professionals only). For medical advice, members of the public should contact NHS 111 in England: 111; NHS 24 in Scotland: 111; NHS Direct in Wales: 111 or 0845 4647. In Northern Ireland: contact your local GP or pharmacist.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (SI 2019 No. 720)

**Physical hazards** Aerosol 1 - H222, H229

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 Lact. - H362 STOT SE 3 - H335 STOT RE 2 - H373

**Environmental hazards** Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

#### 2.2. Label elements

##### Hazard pictograms



**Signal word**

Danger

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<b>Hazard statements</b>	<p>H222 Extremely flammable aerosol.</p> <p>H229 Pressurised container: may burst if heated.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H351 Suspected of causing cancer.</p> <p>H362 May cause harm to breast-fed children.</p> <p>H335 May cause respiratory irritation.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure if inhaled.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p>
<b>Precautionary statements</b>	<p>P201 Obtain special instructions before use.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P211 Do not spray on an open flame or other ignition source.</p> <p>P251 Do not pierce or burn, even after use.</p> <p>P263 Avoid contact during pregnancy and while nursing.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/ attention.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</p>
<b>Supplemental label information</b>	<p>As from 24 August 2023 adequate training is required before industrial or professional use.</p> <p>RCH004a Persons already sensitised to diisocyanates may develop allergic reactions when using this product.</p> <p>RCH004b Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.</p> <p>RCH004c This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.</p>
<b>Contains</b>	Alkanes, C14-17, chloro, Polymethylene polyphenyl isocyanate

### 2.3. Other hazards

Aerosol may explode under the effect of heat. Gas/vapour spreads at floor level: ignition hazard. May be ignited by sparks. This product contains alkanes, C14-17, chloro (medium-chain chlorinated paraffins; MCCP) which is considered to be PBT and vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>Alkanes, C14-17, chloro</b>	<b>&lt;50%</b>
CAS number: 85535-85-9	EC number: 287-477-0
M factor (Acute) = 100	M factor (Chronic) = 10
<b>Classification</b>	
Lact. - H362	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

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<b>Polymethylene polyphenyl isocyanate</b>	<b>10 - &lt;25%</b>
CAS number: 9016-87-9	
<b>Classification</b>	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Resp. Sens. 1 - H334	
Skin Sens. 1 - H317	
Carc. 2 - H351	
STOT SE 3 - H335	
STOT RE 2 - H373	
<b>Isobutane</b>	<b>10 - &lt;25%</b>
CAS number: 75-28-5                      EC number: 200-857-2	
<b>Classification</b>	
Flam. Gas 1A - H220	
Press. Gas (Liq.) - H280	
<b>Dimethyl ether</b>	<b>5 - &lt;10%</b>
CAS number: 115-10-6                      EC number: 204-065-8	
<b>Classification</b>	
Flam. Gas 1A - H220	
Press. Gas (Liq.) - H280	
<b>Propane</b>	<b>5 - &lt;10%</b>
CAS number: 74-98-6                      EC number: 200-827-9	
<b>Classification</b>	
Flam. Gas 1A - H220	
Press. Gas (Liq.) - H280	

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

**Composition comments**            polymethylene polyphenyl isocyanate contains > 0.1% MDI isomers

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	If in doubt, get medical attention promptly.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues. Never give anything by mouth to an unconscious person.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues. In the event of any sensitisation symptoms developing, ensure further exposure is avoided.

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<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves.

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

<b>Inhalation</b>	Coughing, chest tightness, feeling of chest pressure. Sore throat. Upper respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Allergic rash. Redness. Irritation.
<b>Eye contact</b>	Conjunctivitis, irritation, tearing.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Water spray, foam, dry powder or carbon dioxide.
<b>Unsuitable extinguishing media</b>	None known.

### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Extremely flammable aerosol. May explode when heated or when exposed to flames or sparks.
<b>Hazardous combustion products</b>	Toxic and corrosive gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Hydrogen chloride (HCl). Hydrogen cyanide (HCN). Nitrous gases (NO <sub>x</sub> ).

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Use water to keep fire exposed containers cool and disperse vapours. After cooling: persistent risk of physical explosion. Dilute toxic gases with water spray. Explosion risk in case of fire.
<b>Special protective equipment for firefighters</b>	Firefighter's clothing will provide a basic level of protection for chemical incidents. Use air-supplied respirator, gloves and protective goggles. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Avoid contact with skin, eyes and clothing. Avoid inhaling mists and vapours. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate. No smoking, sparks, flames or other sources of ignition near spillage. Take off contaminated clothing and wash it before reuse.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Avoid discharge into drains or watercourses or onto the ground.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Take up mechanically after hardening. When handling waste, the safety precautions applying to handling of the product should be considered. Wash thoroughly after dealing with a spillage.
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## 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet. 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** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact during pregnancy/while nursing. Keep away from heat, sparks and open flame. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Take precautionary measures against static discharges. Do not breathe vapour/spray. Do not breathe mist. Use approved respirator if air contamination is above an acceptable level. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in a cool and well-ventilated place. Keep only in the original container. Keep container tightly closed in a cool place. Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. May explode when heated or when exposed to flames or sparks. Store away from the following materials: Keep away from oxidising materials, heat and flames. Strong acids. Strong alkalis.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2. Cleaning with aprotic polar solvents must be avoided.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Polymethylene polyphenyl isocyanate

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 0.07 mg/m<sup>3</sup>

as -NCO

Sen

##### Isobutane

Long-term exposure limit (8-hour TWA): 600 ppm 1450 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): 750 ppm 1810 mg/m<sup>3</sup>

##### Dimethyl ether

Long-term exposure limit (8-hour TWA): WEL 400 ppm 766 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 958 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

Sen = Capable of causing occupational asthma.

#### Alkanes, C14-17, chloro (CAS: 85535-85-9)

#### DNEL

Workers - Inhalation; Long term systemic effects: 6.7 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 47.9 mg/kg/day

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### PNEC

- Fresh water; 1 µg/l
- marine water; 0.2 µg/l
- STP; 80 mg/l
- Sediment (Freshwater); 13 mg/kg
- Sediment (Marinewater); 2.6 mg/kg
- Soil; 11.9 mg/kg
- Oral (food); 10 mg/kg food

### Polymethylene polyphenyl isocyanate (CAS: 9016-87-9)

### Biological limit values

Isocyanates BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine.  
Sampling time: At the end of the period of exposure.

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Good general ventilation should be adequate to control worker exposure to airborne contaminants.

### Eye/face protection

Chemical splash goggles or face shield. Manufactured / tested in accordance with EN 166. Personal protective equipment that provides appropriate eye and face protection should be worn.

### Hand protection

Wear protective gloves. Manufactured / tested in accordance with EN 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.

### Other skin and body protection

Protective clothing (EN 14605 or EN 13034).

### Hygiene measures

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

### Respiratory protection

Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

### Environmental exposure controls

Do not discharge into drains or watercourses or onto the ground.

## SECTION 9: Physical and chemical properties

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

Appearance	Aerosol.
Colour	Cream.
Odour	Characteristic.
Odour threshold	No information available.
pH	No information available.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	Not applicable.
Evaporation rate	No information available.

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<b>Evaporation factor</b>	No information available.
<b>Flammability (solid, gas)</b>	Extremely flammable aerosol.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Vapour density</b>	No information available.
<b>Relative density</b>	0.969 @ 20°C
<b>Bulk density</b>	969.3 kg/m <sup>3</sup> 20°C
<b>Solubility(ies)</b>	No information available.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	Pressurised container: may burst if heated
<b>Oxidising properties</b>	There are no chemical groups present in the product that are associated with oxidising properties.

### 9.2. Other information

<b>Other information</b>	% of flammable ingredients: 23.39
<b>Volatile organic compound</b>	VOC content: 18.16 – 25.49 % (176.02 g/l - 247.03 g/l)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	Extremely flammable aerosol. Pressurised container: may burst if heated
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### 10.2. Chemical stability

<b>Stability</b>	Stable under the prescribed storage conditions.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Polymerisation risk. Reacts with (some) acids/bases.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid contact with hot surfaces. Keep away from heat, sparks and open flame.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong acids. Strong alkalis.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	There are no data available on this product.
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## ARBOFOAM R

### Acute toxicity - oral

**Summary** Based on available data the classification criteria are not met.

### Acute toxicity - dermal

**Summary** Based on available data the classification criteria are not met.

### Acute toxicity - inhalation

**Summary** Based on available data the classification criteria are not met.

**ATE inhalation (vapours mg/l)** 55.0

### Skin corrosion/irritation

**Skin corrosion/irritation** Skin Irrit. 2 Causes skin irritation.

### Serious eye damage/irritation

**Serious eye damage/irritation** Eye Irrit. 2 Causes serious eye irritation.

### Respiratory sensitisation

**Respiratory sensitisation** Resp. Sens. 1 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Skin sensitisation

**Skin sensitisation** Skin Sens. 1 May cause an allergic skin reaction.

### Germ cell mutagenicity

**Summary** Based on available data the classification criteria are not met.

### Carcinogenicity

**Summary** Carc. 2 Suspected of causing cancer.

### Reproductive toxicity

**Summary** Lact. May cause harm to breast-fed children.

### Specific target organ toxicity - single exposure

**STOT - single exposure** STOT SE 3 - H335 May cause respiratory irritation.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** STOT RE 2 May cause damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.

### **General information**

Suspected of causing cancer. May cause harm to breast-fed children. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure.

### **Inhalation**

Sore throat. Coughing, chest tightness, feeling of chest pressure. Congestion of the lungs may occur, producing severe shortness of breath.

### **Ingestion**

May cause discomfort.

### **Skin contact**

Allergic rash. Irritation. Redness.

### **Eye contact**

Pain or irritation. Prolonged contact may cause redness and/or tearing.

### **Acute and chronic health hazards**

Repeated exposure may cause skin dryness or cracking. Suspected of causing cancer.

### **Target organs**

Lungs

### Toxicological information on ingredients.

#### Alkanes, C14-17, chloro

### Acute toxicity - oral



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**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 4,000.0

**Species** Rat

**ATE oral (mg/kg)** 4,000.0

### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,800.0

**Species** Rat

**ATE dermal (mg/kg)** 2,800.0

### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 48.17

**Species** Rat

**Notes (inhalation LC<sub>50</sub>)** LC50 >48.17 mg/l, 1 hour, Vapour Rat

**ATE inhalation (vapours mg/l)** 48.17

### Reproductive toxicity

**Summary** Lact. May cause harm to breast-fed children.

**Reproductive toxicity - development** Developmental toxicity: - NOAEL: 100 mg/kg/day, Oral, Rabbit Maternal toxicity: - NOAEL: 100 mg/kg/day, Oral, Rabbit

## Polymethylene polyphenyl isocyanate

### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** > 10000 mg/kg (Rat, Literature study, Oral)

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** > 5000 mg/kg (Rabbit, Literature study, Dermal)

### Acute toxicity - inhalation

**ATE inhalation (vapours mg/l)** 11.0

### Carcinogenicity

**IARC carcinogenicity** IARC Group 3 Not classifiable as to its carcinogenicity to humans.

## Isobutane

### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> gases ppmV)** 800,000.0

**Species** Rat

**ATE inhalation (gases ppm)** 800,000.0

## Dimethyl ether

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### Acute toxicity - inhalation

**Acute toxicity inhalation** 164,000.0  
(LC<sub>50</sub> gases ppmV)

**Species** Rat

**ATE inhalation (gases** 164,000.0  
**ppm)**

### Propane

### Acute toxicity - inhalation

**Acute toxicity inhalation** 800,000.0  
(LC<sub>50</sub> gases ppmV)

**Species** Rat

**ATE inhalation (gases** 800,000.0  
**ppm)**

## SECTION 12: Ecological information

### 12.1. Toxicity

**Toxicity** There are no data for the product.

### Acute aquatic toxicity

**Summary** Aquatic Acute 1 Very toxic to aquatic life.

### Chronic aquatic toxicity

**Summary** Aquatic Chronic 1 Very toxic to aquatic life with long lasting effects.

### Ecological information on ingredients.

#### Alkanes, C14-17, chloro

### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.001 < L(E)C<sub>50</sub> ≤ 0.01

**M factor (Acute)** 100

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >5000 mg/l, Alburnus alburnus (Common bleak)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 0.006 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours: >3.2 mg/l, Selenastrum capricornutum

### Chronic aquatic toxicity

**NOEC** 0.001 < NOEC ≤ 0.01

**Degradability** Non-rapidly degradable

**M factor (Chronic)** 10

**Chronic toxicity - fish early life stage** NOEC, 14 days: >125 µg/l, Alburnus alburnus (Common bleak)

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 0.01 mg/l, Daphnia magna

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### Isobutane

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 27.98 mg/l, Pisces  
Calculation method.

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours: 8.57 mg/l, Algae  
Calculation method.

### Dimethyl ether

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: > 4100 mg/l, Poecilia reticulata (Guppy)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: > 4400 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours: 154.9 mg/l, Algae  
Calculation method.

### Propane

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 49.9 mg/l, Pisces

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours: 11.89 mg/l, Algae

### 12.2. Persistence and degradability

#### Ecological information on ingredients.

### Alkanes, C14-17, chloro

**Biodegradation** Water - Degradation 43% (Closed bottle test): 28 days  
Water - Degradation 63% (Closed bottle test): 60 days  
Water - Degradation 51 - 57%: 36 hours

### 12.3. Bioaccumulative potential

**Partition coefficient** No information available.

#### Ecological information on ingredients.

### Alkanes, C14-17, chloro

**Bioaccumulative potential** BCF: 6660, Oncorhynchus mykiss (Rainbow trout) 35 days

**Partition coefficient** log Kow: 5.47-8.01

### Polymethylene polyphenyl isocyanate

**Bioaccumulative potential** BCF: 1, Pisces

**Partition coefficient** : 10.46 Calculation method.

### Isobutane

**Partition coefficient** log Pow: 1.09 – 2.8

### Dimethyl ether

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**Bioaccumulative potential** Bioaccumulation is unlikely.

**Partition coefficient** log Pow: 0.1

### Propane

**Partition coefficient** log Pow: 1.09 – 2.8

#### 12.4. Mobility in soil

#### Ecological information on ingredients.

### Alkanes, C14-17, chloro

**Adsorption/desorption coefficient** Log Koc 5.0 - 5.2

### Polymethylene polyphenyl isocyanate

**Adsorption/desorption coefficient** - Log Koc: 9.078 – 10.597 @ °C Calculation method.

#### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product contains alkanes, C14-17, chloro (medium-chain chlorinated paraffins; MCCP) which is considered to be PBT and vPvB.

#### 12.6. Other adverse effects

**Other adverse effects** None known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**General information** This material and its container must be disposed of as hazardous waste.

**Disposal methods** Dispose of contents/container in accordance with local regulations. Empty containers must not be punctured or incinerated because of the risk of an explosion. Do not empty into drains. Avoid release to the environment.

**Waste class** 08 05 01\* Waste isocyanates 15 01 10\* Packaging containing residues of or contaminated by dangerous substances. 16 05 04\* - gases in pressure containers (including halons) containing dangerous substances

### SECTION 14: Transport information

#### 14.1. UN number

**UN No. (ADR/RID)** 1950

**UN No. (IMDG)** 1950

**UN No. (ICAO)** 1950

**UN No. (ADN)** 1950

#### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** AEROSOLS

**Proper shipping name (IMDG)** AEROSOLS

**Proper shipping name (ICAO)** AEROSOLS

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Proper shipping name (ADN) AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

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

<b>National regulations</b>	<p>The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).</p> <p>The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 (as amended).</p> <p>Health and Safety at Work etc. Act 1974 (as amended).</p> <p>The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].</p> <p>The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 (SI 2020 No. 1577) (as amended).</p>
<b>Health and environmental listings</b>	<p>EU Candidate List of Substances of Very High Concern (SVHCs) for Authorisation: Alkanes, C14-17, chloro (medium-chain chlorinated paraffins; MCCP) which is considered to be PBT and vPvB.</p>

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**Restrictions (SI 2020 No. 1577 Annex XVII)**      Entry number: 56    Entry number: 74

**Seveso Directive - Control of major accident hazards**      P3a Lower-tier 150 tonnes Upper-tier 500 tonnes. E1 Lower-tier 100 tonnes Upper-tier 200 tonnes.

### 15.2. Chemical safety assessment

#### SECTION 16: Other information

**Abbreviations and acronyms used in the safety data sheet**

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ATE: Acute Toxicity Estimate.  
 BCF: Bioconcentration Factor.  
 CAS: Chemical Abstracts Service.  
 DNEL: Derived No Effect Level.  
 EC<sub>50</sub>: 50% of maximal Effective Concentration.  
 GHS: Globally Harmonized System.  
 IARC: International Agency for Research on Cancer.  
 IATA: International Air Transport Association.  
 IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).  
 ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.  
 IMDG: International Maritime Dangerous Goods.  
 Kow: Octanol-water partition coefficient.  
 LC50: Lethal Concentration to 50 % of a test population.  
 LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).  
 LOAEL: Lowest Observed Adverse Effect Level.  
 LOEC: Lowest Observed Effect Concentration.  
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.  
 NOAEL: No Observed Adverse Effect Level.  
 NOEC: No Observed Effect Concentration.  
 PBT: Persistent, Bioaccumulative and Toxic substance.  
 PNEC: Predicted No Effect Concentration.  
 REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.  
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  
 SVHC: Substances of Very High Concern.  
 vPvB: Very Persistent and Very Bioaccumulative.

**Classification abbreviations and acronyms**

Acute Tox. = Acute toxicity  
 Aquatic Acute = Hazardous to the aquatic environment (acute)  
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)  
 Carc. = Carcinogenicity  
 Eye Irrit. = Eye irritation  
 Flam. Gas = Flammable gas  
 Lact. = Reproductive toxicity: effects on or via lactation  
 Press. Gas (Liq.) = Gas under pressure: Liquefied gas  
 Resp. Sens. = Respiratory sensitisation  
 Skin Irrit. = Skin irritation  
 Skin Sens. = Skin sensitisation  
 STOT RE = Specific target organ toxicity-repeated exposure  
 STOT SE = Specific target organ toxicity-single exposure

## ARBOFOAM R

<b>Key literature references and sources for data</b>	Raw material suppliers SDS. Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>Classification procedures according to SI 2019 No. 720</b>	Acute Tox. 4 - H302, Aerosol 1 - H222, H229, Carc. 2 - H351, Eye Irrit. 2 - H319, Lact. - H362, Resp. Sens. 1 - H334, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, STOT RE 2 - H373, STOT SE 3 - H335, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410: Calculation method.
<b>Revision comments</b>	This is the first issue.
<b>Revision date</b>	29/07/2022
<b>Revision</b>	1
<b>SDS number</b>	20585
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated. H280 Contains gas under pressure; may explode if heated. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H351 Suspected of causing cancer. H362 May cause harm to breast-fed children. H373 May cause damage to organs through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure if inhaled. H400 Very toxic to aquatic life. H410 Very 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.