

# RONSEAL®

## SAFETY DATA SHEET RONSEAL EXPANDING FOAM FILLER

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

#### 1.1. Product identifier

Product name RONSEAL EXPANDING FOAM FILLER

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

Identified uses polyurethane

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

Supplier Ronseal Ltd  
Thornccliffe Park  
Chapelton  
Sheffield  
S35 2YP  
+44 (0) 114 246 7171  
enquiry@ronseal.co.uk  
sds@ronseal.co.uk

Contact Person

#### 1.4. Emergency telephone number

Tel: (0114) 246 7171 (office hours only)

Fax: (0114) 245 5629

### SECTION 2: HAZARDS IDENTIFICATION

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

Classification (1999/45/EEC) Xn;R20, R48/20. Carc. Cat. 3;R40. R42/43. Xi;R36/37/38. F+;R12. R53, R64.

#### 2.2. Label elements

Contains polymethylene polyphenyl isocyanate

Labelling



Harmful



Extremely flammable

Risk Phrases

|           |   |
|-----------|---|
| R12       | Extremely flammable.  |
| R20       | Harmful by inhalation.  |
| R36/37/38 | Irritating to eyes, respiratory system and skin.                                      |
| R40       | Limited evidence of a carcinogenic effect.  |
| R42/43    | May cause sensitisation by inhalation and skin contact.                               |
| R48/20    | Harmful: danger of serious damage to health by prolonged exposure through inhalation. |
| R53       | May cause long-term adverse effects in the aquatic environment.                       |
| R64       | May cause harm to breastfed babies.   |

Safety Phrases

|     |   |
|-----|---|
| A1  | Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. |
| A2  | Do not spray on a naked flame or any incandescent material.   |
| S2  | Keep out of the reach of children.  |
| S16 | Keep away from sources of ignition - No smoking.  |

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|        |   |
|--------|---|
| S23    | Do not breathe vapour/spray.  |
| S36/37 | Wear suitable protective clothing and gloves.   |
| S45    | In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). |
| S63    | In case of accident by inhalation: remove casualty to fresh air and keep at rest.                       |
| S51    | Use only in well-ventilated areas.  |
| S61    | Avoid release to the environment. Refer to special instructions/safety data sheets.                     |
| P4     | Contains isocyanates. See information supplied by the manufacturer.                                     |

## 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

|  |  |
|--|--|
| <b>Alkanes, C14-17, chloro;</b>  | <b>2.5-10%</b>   |
| CAS-No.: 85535-85-9  | EC No.: 287-477-0  |
| Classification (EC 1272/2008)<br>EUH066<br>Lact. - H362<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410  | Classification (67/548/EEC)<br>N;R50/53.<br>R64,R66.   |
| <b>DIMETHYL ETHER</b>  | <b>10-25%</b>  |
| CAS-No.: 115-10-6  | EC No.: 204-065-8  |
| Classification (EC 1272/2008)<br>Flam. Gas 1 - H220  | Classification (67/548/EEC)<br>F+;R12  |
| <b>ISOBUTANE</b>   | <b>2.5-10%</b>   |
| CAS-No.: 75-28-5   | EC No.: 200-857-2  |
| Classification (EC 1272/2008)<br>Flam. Gas 1 - H220  | Classification (67/548/EEC)<br>F+;R12  |
| <b>polymethylene polyphenyl isocyanate</b>   | <b>50-100%</b>   |
| CAS-No.: 9016-87-9   | EC No.:  |
| Classification (EC 1272/2008)<br>Acute Tox. 4 - H332<br>Skin Irrit. 2 - H315<br>Eye Irrit. 2 - H319<br>Resp. Sens. 1 - H334<br>Skin Sens. 1 - H317<br>Carc. 2 - H351<br>STOT SE 3 - H335<br>STOT RE 2 - H373 | Classification (67/548/EEC)<br>Xn;R20,R48/20.<br>Carc. Cat. 3;R40.<br>Xi;R36/37/38.<br>R42/43. |

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|   |                                       |         |
|---|---------------------------------------|---------|
| PROPANE   |                                       | 2.5-10% |
| CAS-No.: 74-98-6                                    | EC No.: 200-827-9                     |         |
| Classification (EC 1272/2008)<br>Flam. Gas 1 - H220 | Classification (67/548/EEC)<br>F+;R12 |         |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious place in recovery position and seek medical advice.

#### Inhalation

Remove to fresh air, keep the patient warm and at rest. If breathing has stopped administer artificial respiration.

#### Ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

#### Skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water, or use a recognised skin cleanser. Do NOT use solvents or thinners.

#### Eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

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

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

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Extinguishing media

recommended: alcohol resistant foam, carbon dioxide (CO<sub>2</sub>), powders, water spray/ mist.

#### Unsuitable extinguishing media

not to be used for safety reasons: water jet

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

#### Hazardous combustion products

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required.

#### Specific hazards

Aerosol containers can explode when heated, due to excessive pressure build-up.

### 5.3. Advice for firefighters

#### Special Fire Fighting Procedures

Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or watercourses.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8.

### 6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

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## 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth or vermiculite, and place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

## 6.4. Reference to other sections

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this mixture is used. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparkes and open flame. Non-sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates and spray mist arising from application of this mixture. Avoid inhalation of dust from sanding. Smoking, eating and drinking should be prohibited in application area.

For personal protection, refer to Section 8. Comply with health and safety at work laws. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

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

The principles contained in the HSE guidance note Chemical Warehousing: The Storage of Packed Dangerous Substances, should be observed when storing this product. Store separately from oxidising agents and strongly alkaline and strongly acidic materials. Observe the label precautions. Store between 5°C and 25°C in a dry, well ventilated place away from sources of heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 7.3. Specific end use(s)

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### STD

Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this mixture is used.

### 8.1. Control parameters

| Name                                | STD | TWA - 8 Hrs |                        | STEL - 15 Min |                        | Notes       |
|-------------------------------------|-----|-------------|------------------------|---------------|------------------------|-------------|
|                                     |     |             |                        |               |                        |             |
| DIMETHYL ETHER                      | WEL | 400 ppm     | 766 mg/m <sup>3</sup>  | 500 ppm       | 958 mg/m <sup>3</sup>  |             |
| polymethylene polyphenyl isocyanate | WEL |             | 0.02 mg/m <sup>3</sup> |               | 0.07 mg/m <sup>3</sup> | Sen, as NCO |

WEL = Workplace Exposure Limit.

Sen = Capable of causing occupational asthma.

#### Ingredient Comments

According to EH40 - List of approved workplace exposure limits.

### 8.2. Exposure controls

#### Engineering measures

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn.

#### Respiratory equipment

Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or other people nearby cannot be controlled to below the occupational exposure limit and engineering controls and methods cannot reasonably be improved.

#### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

#### Eye protection

Wear approved safety goggles.

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## Environmental Exposure Controls

Do not allow to enter drains or water courses.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

|                  |                               |
|------------------|-------------------------------|
| Appearance       | Aerosol.                      |
| Colour           | Varying.                      |
| Odour            | Characteristic.               |
| Solubility       | Soluble in: Organic solvents. |
| Relative density | 0.95                          |

### 9.2. Other information

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

May polymerise with many compounds e.g.: (strong) bases and amines. Reacts violently with (some) acids/bases

### 10.2. Chemical stability

Stable if stored under recommended storage and handling conditions (see section 7).

### 10.3. Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials, amines, alcohols and water.

### 10.4. Conditions to avoid

In a fire, hazardous decomposition products may be produced.

### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

Such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, monomeric isocyanates.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Toxicological information

There is no data available on the mixture itself.

The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly.

Exposure to organic solvent vapours in excess of the stated occupational exposure limit may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the kidney, liver and central nervous systems. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin.

Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible local damage. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Person suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest.

Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL.

Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

#### Other Health Effects

May cause harm to breastfed babies.

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## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

There is no data on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment, but contains substances hazardous to the aquatic environment according to Regulation (EC) No 1272/2008. See section 3 for details.

### 12.1. Toxicity

### 12.2. Persistence and degradability

### 12.3. Bioaccumulative potential

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Wastes and emptied containers are controlled wastes and should be disposed of in accordance with The Environmental Protection (Duty of Care) Regulations (in England, Scotland & Wales) or The Controlled Waste (Duty of Care) Regulations in Northern Ireland.

#### Waste Class

Used containers are categorised as hazardous waste, with a code of 15 01 10\* (list of Wastes): packaging containing residues of or contaminated by dangerous substances.

## SECTION 14: TRANSPORT INFORMATION

### General

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in an accident or spillage.

Limited Quantity concessions may apply to the carriage of this product.

### 14.1. UN number

UN No. (ADR/RID/ADN) 1950

UN No. (IMDG) 1950

### 14.2. UN proper shipping name

Proper Shipping Name AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID/ADN Class Class 2: Gases

ADR Label No. 2.1

IMDG Class 2

Transport Labels



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## 14.4. Packing group

## 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

## 14.6. Special precautions for user

EMS F-D; S-U

Tunnel Restriction Code (D)

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

## SECTION 15: REGULATORY INFORMATION

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

#### Uk Regulatory References

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation. The provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

The Manual Handling Operations Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations.  
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations.

European Agreement concerning the International Carriage of Dangerous Goods by Road [ADR]

#### **Guidance Notes**

Occupational Exposure Limits EH40

#### **EU Legislation**

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

#### **Water hazard classification**

The product should not be allowed to enter drains or watercourses, or be deposited where it can affect ground or surface waters. There is no data available on the product itself.

### 15.2. Chemical Safety Assessment

## SECTION 16: OTHER INFORMATION

#### **General information**

The information contained in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

The product should not be used for purposes other than those shown in section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

This product may add to the calculation for determining whether a site is within scope of the Control of Major Accident Hazards Regulations.

For specific guidance contact Ronseal Technical Services. [Helpline +44 (0) 114 240 9469 ] ; Email: enquiry@ronseal.co.uk  
SDS No. 11349/0

Safety Data Sheet Status Approved.

Date 07-03-2012

# RONSEAL EXPANDING FOAM FILLER

## Risk Phrases In Full

|           |  |
|-----------|--|
| R12       | Extremely flammable.   |
| R20       | Harmful by inhalation.   |
| R48/20    | Harmful: danger of serious damage to health by prolonged exposure through inhalation.            |
| R36/37/38 | Irritating to eyes, respiratory system and skin.   |
| R40       | Limited evidence of a carcinogenic effect.   |
| R64       | May cause harm to breastfed babies.  |
| R53       | May cause long-term adverse effects in the aquatic environment.                                  |
| R42/43    | May cause sensitisation by inhalation and skin contact.  |
| R66       | Repeated exposure may cause skin dryness or cracking.  |
| R50/53    | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

## Hazard Statements In Full

|        |   |
|--------|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking.                         |
| H220   | Extremely flammable gas.  |
| H222   | Extremely flammable aerosol.  |
| 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 <<Organs>> through prolonged or repeated exposure. |
| H400   | Very toxic to aquatic life.   |
| H410   | Very toxic to aquatic life with long lasting effects.                         |
| H413   | May cause long lasting harmful effects to aquatic life.                       |

## Disclaimer

Information contained in this Safety Data Sheet is based on data considered to be accurate at the time of its preparation. Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. ,  
The supplier accepts no responsibility whatsoever (except otherwise provided in law) for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices or from hazards inherent in the product.