



1. Identification of the Substance/Preparation and of the Company

| | |
|------------------|---|
| Product | RapidRoof WaterProof |
| Company | Liquid Roofing Systems Ltd. |
| Address | Prees Green Whitchurch Shropshire SY13 2BN |
| Telephone | 01948 841 877 |
| Fax | 01948 841 854 |
| Website | lrs-systems.co.uk |

2. Hazards Identification



2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

| | |
|-----------------------------|---|
| Flammable Liquid 2 | H225 Highly flammable liquid and vapour. |
| Skin Irritant 2 | H315 Causes skin irritation. |
| Eye Irritant 2 | H319 Causes serious eye irritation. |
| Skin Sensitisation 1 | H317 May cause an allergic skin reaction. |

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

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|--|---|
| Xi; Irritant R37 / 38 | Irritating to respiratory system and skin. |
| Xi; Sensitising R43 | May cause sensitisation by skin contact. |
| F; | Highly Flammable. |
| R11 | Highly Flammable. |
| Information concerning particular hazards for human and environment | The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. |
| Classification System | The classification is according to the latest editions of the EU-lists, and extended by company and literature data. |

2.2 Label elements

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| Labelling according to Regulation (EC) No 1272/2008 | This product is classified and labelled according to the CLP regulation. |
| Hazard pictograms |   GHS02 GHS07 |
| Signal word | Danger. |
| Hazard-determining components of labelling | N-butyl acrylate. Methyl methacrylate. |
| Hazard Statements | H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. |





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| Precautionary statements | H317 May cause an allergic skin reaction. |
| | P210 Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. No Smoking. |
| | P261 Avoid breathing dust/fume gas/mist/vapours/spray. |
| | P280 Wear protective gloves/protective clothing/eye protection/face protection. |
| | P305 + P351 + P338 IF IN EYES: Rinse cautiously for several minutes with water. Remove any contact lenses if present and easy to do. Continue rinsing. |
| P403 + P235 Store in a well-ventilated place. Keep cool. | |
| P501 Dispose of contents / container in accordance with local / regional / national / international regulations. | |

2.3 Other hazards. Results of PBT and vPvB assessment

| | |
|-------------|-----------------|
| PBT | Not applicable. |
| vPvB | Not applicable. |

3. Composition/Information of Ingredients

| | |
|------------------------------|---------------------------|
| Hazardous Ingredients | Methacrylate Resin Liquid |
|------------------------------|---------------------------|

| | | | | |
|-----------------------------------|--|--------------------------------|----------|--|
| N-butyl acrylate | CAS: 141-32-2 EINECS: 205-480-7 Reg.nr.: 01-2119453155-43-xxxx | Xi R36/37/38; Xi R43 R10 | 25-50% | Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 |
| Methyl methacrylate | CAS: 80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-28 | Xi R37/38; Xi R43; F R11 | 10-25% | Flam. Liq. 2, H225, Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335 |
| 1, 1'-(p-tolylimino)dipropan-2-ol | CAS: 38668-48-3 EINECS: 254-075-1 | T R25 R52/53 | 0.5-2.5% | Acute Tox. 3, H301; Aquatic Chronic 3, H412 |

Additional Information: For the wording of the listed risk phrases refer to section 16.

4. First Aid Measures**4.1 Description of first aid measures**

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| General Information | Immediately remove any clothing soiled by the product. |
| After inhalation | Supply fresh air and to be sure call for a doctor. |
| After skin contact | Immediately wash with water and soap and rinse thoroughly. |





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| After eye contact | Rinse opened eye for several minutes under running water. Then consult a doctor. |
| After swallowing | Drink plenty of water and provide fresh air. Call for a doctor immediately. |

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. Firefighting Measures

5.1 Extinguishing media

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| Suitable extinguishing agents | Foam Sand CO2, extinguishing powder or water spray. Fight larger fires with alcohol resistant foam. |
| For safety reasons unsuitable extinguishing agents | Water with full jet |

5.2

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| Special hazards arising from the substance or mixture | Exothermic polymerisation |
| In case of fire the following can be released | Hydrocarbons Carbon monoxide and carbon dioxide |

5.3 Advice for firefighters

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| Protective equipment | Wear self-contained respiratory protective device. |
| Additional information | Cool endangered receptacles with water spray. |

6. Accidental Release Measures

6.1

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| Personal precautions, protective equipment and emergency procedures | Ensure adequate ventilation. Wear protective clothing. Keep away from ignition sources. Use respiratory protective device against the effects of fumes / dust / aerosol. Wear protective equipment. Keep unprotected people away. |
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6.2

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| Environmental precautions | Do not allow to enter sewers/surface or ground water. |
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| 6.3 | |
| Methods and material for containment and cleaning up | Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders,). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents |

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| 6.4 | |
| Reference to other sections | See section 7 for information on safe handling. See section 8 for information on personal protection equipment. See section 13 for disposal information. |

7. Handling and Storage

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| 7.1 | |
| Precautions for safe handling | Ensure good ventilation / exhaustion at the workplace. |
| Information about fire and explosion protection | Keep ignition sources away – Do not smoke. Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. |

7.2 Conditions for safe storage, including any incompatibilities

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| Storage | |
| Requirements to be met by storerooms and receptacles | Store only in the original receptacle. Store in cool, dry conditions in well-sealed receptacles. Do not allow to enter sewers/surface or ground water. |
| Information about storage in one common storage facility | Not required. |
| Further information about storage conditions | Store receptacle in a well ventilated area. Protect from heat and direct sunlight. |
| Maximum storage temperature | 25°C |
| Specific end use (BetrSichV) | Highly flammable. |

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| 7.3 | |
| Specific end use(s) | No further relevant information available. |

8. Exposure Controls/Personal Protection

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|--|------------------------------|
| Additional information about design of technical facilities | No further data; see item 7. |
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8.1 Control parameters



Ingredients with limit values that require monitoring at the workplace.

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|--|-----|---|
| 141-32-2n-Butyl acrylate | AGW | Long-term value: 11 mg/m ³ , 2 ml/m ³ 2(I);DFG, EU, Y |
| 80-62-6 Methyl methacrylate | AGW | Long-term value: 210 mg/m ³ , 50 ml/m ³ 2(I);DFG, EU, Y |
| 109-16-0 Triethylene glycol dimethacrylate | MAK | vgl.Abschn.IV |

Additional Information: The lists valid during the making were used as basis.

8.2 Exposure Control

Personal protective equipment

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| General protective and hygienic measures | Keep away from foodstuffs, beverage and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. |
| Respiratory protection | Use the indicated respiratory protection if workplace exposure limits are exceeded. |
| Recommended filter device for short term use | Filter A |
| Protection of hands  (Protective gloves) | The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (EN 374) |
| Material of gloves | Butyl rubber, BR. |
| Penetration time of glove material | The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. For the mixture mentioned below the penetration time has to be at least 60 minutes (Permeation according to EN 374 Part 3: Level 3). |
| Eye protection  | Tightly sealed goggles. |
| Body protection | Protective work clothing. |

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

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|------------------------------------|----------------|
| General information | |
| Appearance | |
| Form | Fluid |
| Colour | Dark Grey |
| Odour | Characteristic |
| Odour threshold | Not determined |
| pH-value | Not determined |
| Change in condition | |
| Melting point/melting range | -48°C |
| Boiling point/boiling range | 100°C |
| Flash point | 10°C |





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| Flammability (solid, gaseous) | Not applicable |
| Ignition temperature | 275°C |
| Decomposition temperature | Not determined |
| Self-igniting | Product is not self-igniting |
| Danger of explosion | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| Explosion limits | |
| Lower | 1.2 Vol % |
| Upper | 12.5 Vol % |
| Vapour pressure at 20°C | 38.7 hPa |
| Density | Not determined |
| Relative density | Not determined |
| Vapour density | Not determined |
| Evaporation rate | Not determined |
| Solubility in / Miscibility with water | Not miscible |
| Partition coefficient (n-octanol/water) | Not determined. |
| Viscosity | |
| Dynamic at 20 °C | 1200 mPas |
| Kinematic | Not determined |
| Solvent content | |
| Organic solvents | 0.0 % |
| Solids content | 50.0 % |

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| 9.2 Other information | No further relevant information available. |
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10. Stability and Reactivity

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| 10.1 Reactivity | No further relevant information available. |
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| 10.2 Chemical stability | |
| Thermal decomposition / conditions to be avoided | Keep away from heat and direct sunlight. |

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| 10.3 Possibility of hazardous reactions | Exothermic polymerization. |
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| 10.4 Conditions to avoid | No further relevant information available. |
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| | |
|--------------------------|--|
| 10.4 Conditions to avoid | No further relevant information available. |
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|-----------------------------|---|
| 10.5 Incompatible materials | Reacts with peroxides and other radical forming substances. |
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|---------------------------------------|--|
| 10.6 Hazardous decomposition products | Hydrocarbons, Carbon monoxide and carbon dioxide |
| Additional information | Do not allow to enter sewers/ surface or ground water. |





11. Toxicological Information

| 11.1 Information on toxicological effects | |
|---|---|
| Acute toxicity | |
| Primary irritant effect | |
| Skin corrosion/irritation | Causes skin irritation. |
| Serious eye damage/irritation | Causes serious eye irritation. |
| Respiratory or skin sensitisation | May cause an allergic skin reaction. |
| CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) | |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | Based on available data, the classification criteria are not met. |
| STOT-single exposure | May cause respiratory irritation. |
| STOT-repeated exposure | Based on available data, the classification criteria are not met. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |

12. Ecological Information

| 12.1 Toxicity | |
|--|--|
| Aquatic toxicity | No further relevant information available. |
| 12.2 Persistence and degradability | |
| No further relevant information available. | |
| 12.3 Bio accumulative potential | |
| No further relevant information available. | |
| 12.4 Mobility in soil | |
| No further relevant information available. | |
| Additional ecological information | |
| General notes | Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. |
| 12.5 Results of PBT and vPvB assessment | |
| PBT | Not applicable. |
| vPvB | Not applicable. |





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| 12.6 Other adverse effects | No further relevant information available. |
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13. Disposal Considerations

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| 13.1 Waste treatment methods | |
| Recommendation | Must not be disposed together with household garbage. Do not allow product to reach sewage system. |
| | Must be specially treated adhering to official regulations. |
| European waste catalogue | |
| 07 02 08* | Other still bottoms and reaction residues. |
| 15 01 10* | Metallic packaging. |
| Uncleaned packaging | |
| Recommendation | Packaging may be reused or recycled after cleaning. Packaging that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations. |
| Recommended cleansing agents | Acetone, ethylacetate. |

14. Transport Information

| | |
|------------------------|--------|
| 14.1 UN-Number | |
| ADR, IMDG, IATA | UN1866 |

| | |
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| 14.2 UN proper shipping name | |
| ADR | 1866 FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILISED, BUTYL ACRYLATES, stabilised). |
| IMDG, IATA | FLAMMABLE LIQUID, NOS (Methyl Methacrylate monomer, stabilised, butyl acrylate, STABILISED). |

| | |
|---|----------------------|
| 14.3 Transport hazard class(es) | |
| ADR, IMDG, IATA | |
|  | |
| Class | 3 Flammable Liquids. |
| Label | 3 |

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|---------------------------|-----|
| 14.4 Packing group | |
| ADR, IMDG, IATA | III |

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| 14.5 Environmental hazards | |
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| Marine pollutant | No |
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| 14.6 Special precautions for user | Warning: Flammable liquids. |
| Danger code (Kemler) | 33 |
| EMS Number | F-E, <u>S-E</u> |

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|--|--|
| 14.7 Transport in bulk according to Ann of Marpol and the IBC Code | Not applicable. |
| Transport/Additional information | |
| ADR | |
| Limited quantities (LQ) | 5L |
| Excepted quantities (EQ) | Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| Transport category | 3 |
| Tunnel restriction code | D/E |
| IMDG | |
| Limited quantities (LQ) | 5L |
| Excepted quantities (EQ) | Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| UN "Model Regulation" | UN 1866, Flammable liquid SUBSTANCE, N.O.S. (Methyl methacrylate, MONOMER, STABILISED, BUTYL ACRYLATES, stabilised), 3, III |

15. Regulatory Information

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

| | |
|----------------------------|---|
| Directive 2012/18 / EU | |
| Named dangerous substances | ANNEX I none of the ingredients listed. |
| National regulations | |
| Waterhazard class | Water hazard class 1 (Self-assessment): slightly hazardous for water. |





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| | |
|--|--------|
| Other regulations, limitations and prohibitive regulations | |
| VOC content (EU) | 0.00% |
| GISCODE | RMA 10 |

| | |
|---------------------------------|--|
| 15.2 Chemical safety assessment | A Chemical Safety Assessment has not been carried out. |
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16. Other Information

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|------------------|-------------------------------------|
| Relevant phrases | |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |





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| | |
|---|---|
| H301 | Toxic if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |
| R10 | Flammable. |
| R11 | Highly flammable. |
| R25 | Toxic if swallowed. |
| R36/37/38 | Irritating to eyes, respiratory system and skin. |
| R37/38 | Irritating to respiratory system and skin. |
| R43 | May cause sensitisation by skin contact. |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| Department issuing MSDS | Environmental Department |
| Abbreviations and acronyms | Flam. Liq. 2: Flammable liquids, Hazard Category 2 |
| | Flam. Liq. 3: Flammable liquids, Hazard Category 3 |
| | Acute Tox. 3: Acute toxicity, Hazard Category 3 |
| | Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 |
| | Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 |
| | Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 |
| | STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Aquatic |
| | Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3 |
| * Data compared to the previous version altered. | |

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Liquid Rubber Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.

