

# RONSEAL®

## SAFETY DATA SHEET ISOFLEX LIQUID RUBBER

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

#### 1.1. Product identifier

Product name ISOFLEX LIQUID RUBBER

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

Identified uses Waterproofing preparation

#### 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 +44 (0) 114 246 7171 (office hours only)  
Fax +44 (0) 114 245 5629

### SECTION 2: HAZARDS IDENTIFICATION

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

Classification (1999/45/EEC) Xn;R20. R42/43. Xi;R36/37/38. R10, R52/53.

#### 2.2. Label elements

Contains DIPHENYLMETHANE-4,4'-DI-ISOCYANATE  
TOLUENE-2,4-DI-ISOCYANATE

#### Labelling



Harmful

#### Risk Phrases

R10	Flammable.
R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42/43	May cause sensitisation by inhalation and skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Safety Phrases

S2	Keep out of the reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
S23	Do not breathe vapour/spray.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

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S46	If swallowed, seek medical advice immediately and show this container or label.
S56	Dispose of this material and its container to hazardous or special waste collection point.
S63	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
P4	Contains isocyanates. See information supplied by the manufacturer.

## 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

<b>1,2,4-TRIMETHYLBENZENE</b>	<b>10-25%</b>
CAS-No.: 95-63-6	EC No.: 202-436-9
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Chronic 2 - H411	Classification (67/548/EEC) R10 Xn;R20 Xi;R36/37/38 N;R51/53
<b>Coumarone - Indene Resin</b>	<b>25-50%</b>
CAS-No.: 63393-89-5	EC No.:
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Xi;R36/37/38.
<b>CUMENE</b>	<b>&lt; 1%</b>
CAS-No.: 98-82-8	EC No.: 202-704-5
Classification (EC 1272/2008) Flam. Liq. 3 - H226 STOT SE 3 - H335 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548/EEC) R10 Xn;R65 Xi;R37 N;R51/53
<b>DIPHENYLMETHANE-4,4'-DI-ISOCYANATE</b>	<b>2.5-10%</b>
CAS-No.: 101-68-8	EC No.: 202-966-0
Classification (EC 1272/2008) 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	Classification (67/548/EEC) Xn;R20 R42/43 Xi;R36/37/38

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<b>ETHYLBENZENE</b>		<b>&lt; 1%</b>
<b>CAS-No.: 100-41-4</b>	<b>EC No.: 202-849-4</b>	
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Acute Tox. 4 - H332	Classification (67/548/EEC) F;R11 Xn;R20	
<b>MESITYLENE</b>		<b>2.5-10%</b>
<b>CAS-No.: 108-67-8</b>	<b>EC No.: 203-604-4</b>	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 STOT SE 3 - H335 Aquatic Chronic 2 - H411	Classification (67/548/EEC) R10 Xi;R37 N;R51/53	
<b>Solvent naphtha (petroleum), light arom.</b>		<b>2.5-10%</b>
<b>CAS-No.: 64742-95-6</b>	<b>EC No.: 265-199-0</b>	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Xn;R65. N;R51/53.	
<b>TOLUENE-2,4-DI-ISOCYANATE</b>		<b>&lt; 1%</b>
<b>CAS-No.: 584-84-9</b>	<b>EC No.: 209-544-5</b>	
Classification (EC 1272/2008) Acute Tox. 2 - H330 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 Aquatic Chronic 3 - H412	Classification (67/548/EEC) Carc. Cat. 3;R40 T+;R26 R42/43 Xi;R36/37/38 R52/53	
<b>XYLENE</b>		<b>&lt; 1%</b>
<b>CAS-No.: 1330-20-7</b>	<b>EC No.: 215-535-7</b>	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315	Classification (67/548/EEC) R10 Xn;R20/21 Xi;R38	

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

**Composition Comments**

EU Limit value for this product (catA/i): 500 g/l VOC Contains toluene di-isocyanate. Contains diphenyl methane-4, 4-diiisocyanate.

**SECTION 4: FIRST AID MEASURES**

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## 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.

### Inhalation

Remove to fresh air, keep the patient warm and at rest. If breathing has stopped administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.

### 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. Seek medical advice if any irritation persists.

### Eye contact

Contact lenses should be removed. 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

Fire can be extinguished using: recommended: alcohol resistant foam, carbon dioxide (CO<sub>2</sub>), powders, water spray/ mist. Not to be used for safety reasons: water jet.

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

### 5.3. Advice for firefighters

#### Special Fire Fighting Procedures

Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Exposure to decomposition products may be hazardous to health. Appropriate self-contained breathing apparatus may be required. 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

### 6.2. Environmental precautions

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

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Section 7 and 8. 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). Clean preferably with a detergent; avoid the use of solvents. If the product enters drains or sewers, immediately contact the local water company; in the case of contamination of streams, rivers or lakes, the relevant environment agency.

### 6.4. Reference to other sections

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

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Keep away from heat, sparks and open flame. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits. Non-sparking tools should be used. Smoking, eating and drinking should be prohibited in application area. Provide good ventilation. Avoid inhalation of vapour and spray mist. Avoid skin and eye contact. Prevent airborne concentrations higher than the occupational exposure limits. For personal protection, refer to Section 8. Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should only be employed in processes in which this product is used under appropriate medical supervision. This product contains a respiratory sensitiser. Advice should be taken from a competent occupational health practitioner on assessment and health surveillance of employees exposed to this product (the HSE's Employment Medical Advisory Service can advise on competency). This product contains a skin sensitiser. Hands should be inspected on a regular basis for any signs of skin damage or inflammation. If in doubt, advice should be taken from a competent health practitioner on assessment and health surveillance of employees exposed to this product (the HSE's Employment Medical Advisory Service can advise on competency).

The Manual Handling Operations Regulations may apply to the handling of containers/packages of this product. Refer to the guide weight indicated on the container when carrying out assessments.

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

Keep containers tightly closed. Observe the label precautions. Keep in a cool, dry, well ventilated place, away from sources of heat, ignition and direct sunlight. No smoking. Store between 5°C and 25°C in a dry, well ventilated place away from sources of heat and direct sunlight. Do not store near foodstuffs. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

Product will react with moisture. Do not open tins until product is to be used.

The principles contained in the HSE Guidance Note: Storage of Packaged Dangerous Substances, should be observed when storing this product.

To avoid the risk of spillage, always store and transport in a secure and upright position. Store in a dark, cool, dry, well ventilated place away from heat and sources of ignition.

## **7.3. Specific end use(s)**

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **8.1. Control parameters**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
1,2,4-TRIMETHYLBENZENE	WEL	25 ppm	125 mg/m <sup>3</sup>			
CUMENE	WEL	25 ppm(Sk)	125 mg/m <sup>3</sup> (Sk)	50 ppm(Sk)	250 mg/m <sup>3</sup> (Sk)	
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	WEL		0.02 mg/m <sup>3</sup> (Sen)		0.07 mg/m <sup>3</sup> (Sen)	
ETHYLBENZENE	WEL	100 ppm(Sk)	441 mg/m <sup>3</sup> (Sk)	125 ppm(Sk)	552 mg/m <sup>3</sup> (Sk)	
MESITYLENE	WEL	25 ppm	125 mg/m <sup>3</sup>			
Solvent naphtha (petroleum), light arom.	SUP		200 mg/m <sup>3</sup>			
TOLUENE-2,4-DI-ISOCYANATE	WEL		0.02 mg/m <sup>3</sup> (Sen)		0.07 mg/m <sup>3</sup> (Sen)	
XYLENE	WEL	50 ppm(Sk)	220 mg/m <sup>3</sup> (Sk)	100 ppm(Sk)	441 mg/m <sup>3</sup> (Sk)	

WEL = Workplace Exposure Limit.

#### **Ingredient Comments**

SUP = Supplier's recommendation.

### **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**

If exposure to hazardous substances identified above cannot be controlled by the provision of local exhaust ventilation and good general extraction, suitable respiratory protective equipment should be worn.

#### **Hand protection**

When skin exposure may occur, advice should be sought from glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

#### **Eye protection**

Eye protection designed to protect against liquid splashes should be worn.

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## Other Protection

Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. If clothing becomes heavily splashed, remove and replace. Do not reuse.

All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	Viscous liquid.
Colour	Black.
Odour	Aromatic. Solvent.
Solubility	Immiscible with water
Initial boiling point and boiling range	> 150 @ 760mm Hg
Relative density	1.1 - 1.15 @ 25
Viscosity	> 13, 000 mPas @ 25
Flash point	55 approx. CC (Closed cup).
Flammability Limit - Lower(%)	0.8

### 9.2. Other information

Volatile Organic Compound (VOC) 230 max. g/litre

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

### 10.2. Chemical stability

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

Avoid contact with moisture (water) prior to use.

### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Keep away from oxidising agents and strongly alkaline and strongly acidic materials.

### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, amines and alcohols may be produced.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Toxicological information

There is no data available on the product itself. The product has been assessed following the conventional method in CHIP and is classified for toxicological hazards accordingly. This takes into account, where known, delayed and immediate effects and also chronic effects from components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. See Sections 2 and 15 for details of the resulting hazard classification.

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.

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Based on the properties of the isocyanate content of this product, respiratory exposure may cause acute irritation and/or sensitisation of the respiratory system, resulting in asthmatic symptoms, wheezing and a tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to airborne concentrations of isocyanates well below the occupational exposure limit. Repeated exposure may lead to permanent respiratory disability. 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.

## Inhalation

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (ie type A1 according to Standard EN 14387) is used.

## Medical Symptoms

COSHH requires that persons exposed to products containing a respiratory sensitiser at a concentration above 1% (or a lower level if indicated as such in the Approved Supply List), to be subject to appropriate health surveillance. COSHH requires that persons exposed to products containing a skin sensitiser at a concentration of above 1% (or a lower level if indicated as such in the Approved Supply List), to be subject to appropriate health surveillance. Publications giving guidance on health surveillance are listed in Section 15.

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

The product has been assessed following the conventional method in CHIP and is classified for ecological hazards accordingly. See Sections 3 and 15 for details.

### 12.1. Toxicity

#### Acute Fish Toxicity

There is no data available on the mixture itself.

### 12.2. Persistence and degradability

#### Degradability

There is no data available on the product itself.

### 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

Do not allow into drains or watercourses, or dispose of where ground or surface waters may be affected. 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. Using information provided in this data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

## 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. (IMDG)

N/C

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## 14.2. UN proper shipping name

## 14.3. Transport hazard class(es)

ADR/RID/ADN Class Not dangerous according to ADR.

Transport Labels

No transport warning sign required.

## 14.4. Packing group

## 14.5. Environmental hazards

## 14.6. Special precautions for user

## 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 product is classified and labelled for supply in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP]

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 VOCs in Paints, Varnishes and Vehicle Refinishing Products Regulations 2005.

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**

Workplace Exposure Limits EH40.

Respiratory sensitisers and COSHH - a guide for employers, INDG95.

Isocyanates:health hazards and precautionary measures, EH16.

Surveillance of people exposed to health risks at work, (ISBN 0 11 885574 3)

#### **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**

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

## 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.



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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.

For specific guidance contact Ronseal Technical Services. [Helpline +44 (0) 114 240 9469 ] ; Email: enquiry@ronseal.co.uk

## Revision Comments

New format.

**Revision Date** 26-11-2012

**SDS No.** 10359/3

## Risk Phrases In Full

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R20	Harmful by inhalation.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R11	Highly flammable
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R42/43	May cause sensitisation by inhalation and skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R26	Very toxic by inhalation.

## Hazard Statements In Full

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H330	Fatal if inhaled.
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H312	Harmful in contact with skin.
H412	Harmful to aquatic life with long lasting effects.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.

## 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.