



SAFETY DATA SHEET ISOFLEX LIQUID RUBBER

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/ UNDERTAKING

PRODUCT NAME	ISOFLEX LIQUID RUBBER
PRODUCT NO.	16149
INTERNAL ID	Commodity Code 320890 91 00
SYNONYMS, TRADE NAMES	SPN 10359
APPLICATION	Waterproofing preparation
SUPPLIER	Ronseal Ltd Thornccliffe Park Chapelton Sheffield S35 2YP enquiry@ronseal.co.uk
EMERGENCY TELEPHONE	Tel +44 (0) 114 246 7171 Fax +44 (0) 114 245 5629

2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
1,2,4-TRIMETHYLBENZENE	202-436-9	95-63-6	10-25%	R10 Xn;R20 Xi;R36/37/38 N;R51/53
Coumarone - Indene Resin		63393-89-5	25-50%	Xi;R36/37/38.
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	202-966-0	101-68-8	2.5-10%	Xn;R20 R42/43 Xi;R36/37/38
MESITYLENE	203-604-4	108-67-8	2.5-10%	R10 Xi;R37 N;R51/53
SOLVENT NAPHTHA (PETROLEUM) LIGHT AROM.; LOW BOILING NAPHTHA	265-199-0	64742-95-6	2.5-10%	Xn;R65. Xi;R37. N;R51/53.
TOLUENE-2,4-DI-ISOCYANATE	209-544-5	584-84-9	< 1%	Carc3;R40 T+;R26 R42/43 Xi;R36/37/38 R52/53

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

EU VOC limit value for this product (cat A/i) : 600g/l (2007) / 500g/l (2010). Contains toluene di-isocyanate. Contains diphenyl methane-4, 4-diisocyanate.

3 HAZARDS IDENTIFICATION

Flammable. Harmful by inhalation. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xn;R20. R42/43. Xi;R36/37/38. R10, R52/53.

4 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 obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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SKIN CONTACT

Remove contaminated clothing. Wash skin thoroughly with soap and water, or use a proprietary skin cleanser. Do NOT use solvents or thinners. Seek medical advice if any irritation persists.

EYE CONTACT

Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Fire can be extinguished using: alcohol resistant foam, carbon dioxide (CO₂), powder, water spray/ mist. Do not use water jet.

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.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

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.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. 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 areas of storage and use. 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 Occupational Exposure Controls, 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.

STORAGE PRECAUTIONS

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. 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.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
1,2,4-TRIMETHYLBENZENE	WEL	25 ppm	125 mg/m3		
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)
MESITYLENE	WEL	25 ppm	125 mg/m3		
SOLVENT NAPHTHA (PETROLEUM) LIGHT AROM.; LOW BOILING NAPHTHA	SUP		200 mg/m3		
TOLUENE-2,4-DI-ISOCYANATE	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits SUP = Supplier's recommendation.

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.

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.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous liquid.		
COLOUR	Black		
ODOUR	Aromatic. Solvent.		
SOLUBILITY	Immiscible with water		
BOILING POINT (°C)	> 150 @ 760mm Hg	RELATIVE DENSITY	1.1 - 1.15 @ 25
VISCOSITY	> 13,000 mPas @ 25	FLASH POINT (°C)	55 approx. CC (Closed cup)
FLAMMABILITY LIMIT - LOWER(%)	0.8	VOLATILE ORGANIC COMPOUND (VOC)	230 max. g/litre

10 STABILITY AND REACTIVITY

STABILITY

Stable if stored under recommended storage and handling conditions.
Avoid contact with moisture (water) prior to use.

CONDITIONS TO AVOID

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

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.

11 TOXICOLOGICAL INFORMATION

ISOFLEX LIQUID RUBBER

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 3 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. 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.

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.

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.

DEGRADABILITY

There is no data available on the product itself.

ACUTE FISH TOXICITY

There is no data available on the product itself.

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.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Do not allow into drains or watercourses, or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

14 TRANSPORT INFORMATION

GENERAL

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

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

No transport warning sign required.

UK ROAD CLASS

N/C

ADR CLASS

Not dangerous according to ADR.

UN NO. SEA

N/C

15 REGULATORY INFORMATION

LABELLING

ISOFLEX LIQUID RUBBER



Harmful

CONTAINS

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

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
S7/9	Keep container tightly closed and in a well-ventilated place.
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.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well-ventilated areas.
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.

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]

EU DIRECTIVES

Dangerous Substance Directive 67/548 Dangerous Preparations Directive 88/379 Safety Data Sheet Directive 91/155

GUIDANCE NOTES

Workplace Exposure Limits EH40.

ISOFLEX LIQUID RUBBER

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)

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.

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

REVISION COMMENTS

Revised Transport Information.

ISSUED BY

S. Russell

REVISION DATE 11-07-2006

REV. NO./REPL. SDS 10359/0
GENERATED

SDS NO. 10359/1

DATE 11-07-2006

SIGNATURE K. R. P. Winder.

RISK PHRASES IN FULL

R10	Flammable.
R20	Harmful by inhalation.
R26	Very toxic by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
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.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.

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.