

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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Liquid Asphaltic Composition (LAC)

Revision 0

Revision date 2018-06-27

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	Liquid Asphaltic Composition (LAC)
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1.3. Details of the supplier of the safety data sheet

Company	RIW Limited
Address	Arc House Terrace Road South Binfield, Bracknell Berkshire RG42 4PZ
Web	www.riw.co.uk
Telephone	+44 (0)1344 397788
Email	enquiries@riw.co.uk
Email address of the competent person	sds@riw.co.uk

1.4. Emergency telephone number


Emergency telephone number	+44 (0)1270 502891
Company	NCEC 24 hours

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	: EUH066; Flam. Liq. 3: H226; STOT SE 3: H336; STOT RE 1: H372; Aquatic Chronic 2: H411;
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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	EUH066 - Repeated exposure may cause skin dryness or cracking. Flam. Liq. 3: H226 - Flammable liquid and vapour. STOT SE 3: H336 - May cause drowsiness or dizziness. STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure . Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Precautionary Statement: Prevention	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting// equipment.

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2.2. Label elements

Precautionary Statement: Response	P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 - Call a POISON CENTER/doctor/ /if you feel unwell. P314 - Get medical advice/attention if you feel unwell. P370+P378 - In case of fire: Use to extinguish. P391 - Collect spillage.
Precautionary Statement: Storage	P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to licensed waste disposal site

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Penetration Bitumen (Asphalt, petroleum fumes)		8052-42-4	232-490-9	01-2119480172-44	40 - 50%	
Naphtha (Petroleum), Hydrosulfurized Heavy; Low Boiling (White spirit)		64742-82-1	919-446-0	01-2119458049-33	20 - 30%	: EUH066; Flam. Liq. 3; H226; Asp. Tox. 1: H304; STOT SE 3: H336; STOT RE 1: H372; Aquatic Chronic 2: H411;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Seek medical attention if irritation or symptoms persist. Wash off immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin.
Ingestion	Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

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

Inhalation	Inhalation may cause nausea and vomiting. May cause dizziness and headache.
Eye contact	May cause irritation to eyes. May cause irritation to mucous membranes.
Skin contact	May cause degreasing of the skin. May cause irritation to skin.
Ingestion	Ingestion may cause nausea and vomiting.

General information

	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Treat symptomatically.
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SECTION 5: Firefighting measures

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5.1. Extinguishing media

Use foam, carbon dioxide, dry powder, sand or earth.

5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition. Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective clothing.

6.2. Environmental precautions

Do not flush into surface water. Prevent further spillage if safe.

6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal.

6.4. Reference to other sections

SECTION 13: Disposal considerations. SECTION 14: Transport information. SECTION 2: Hazards identification.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Keep away from sources of ignition - No smoking. Use explosion proof equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep in a cool, dry, well ventilated area. Store in correctly labelled containers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Naphtha (Petroleum), Hydrosulfurized Heavy; Low Boiling (White spirit)	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 350
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3:
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:
Penetration Bitumen (Asphalt, petroleum fumes)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 5
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: 10
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:

DNEL: Derived no-effect level.

Exposure Pattern - Workers

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Exposure Pattern - Workers

Naphtha (Petroleum), Hydrosulfurized Heavy; Low Boiling	Acute inhalation - Systemic effects	570 mg/m ³	
	Long-term - inhalation - Systemic effects	330 mg/m ³	Long-term - dermal - Systemic effects 44 mg/kg

Exposure Pattern - General population

Naphtha (Petroleum), Hydrosulfurized Heavy; Low Boiling	Acute inhalation - Systemic effects	570 mg/m ³	
	Long-term - inhalation - Systemic effects	71 mg/m ³	Long-term - dermal - Systemic effects 26 mg/kg
	Long-term - oral - Systemic effects	26 mg/kg	

8.2. Exposure controls

	
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear suitable protective clothing.
Eye / face protection	Suitable eye protection.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Black
Odour	Characteristic
Freezing Point	Not determined
Initial boiling point	> 130 °C
Flash point	> 39 °C
Upper Explosive Limit	7.2 %
Lower Explosive Limit	0.8 %
Autoignition temperature	> 200 °C
Viscosity	≥ 3200 x 10 ⁻⁶ m ² /s @ 40 °C (ISO 3104/3105)
Oxidising properties	Not determined
Solubility	Insoluble in water

9.2. Other information

Specific gravity	0.94 - 0.95 g/cm ³
VOC (Volatile organic compounds)	≤ 300 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

	Stable under normal conditions.
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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Oxidising agents.

10.4. Conditions to avoid

Heat, sparks and open flames.

10.5. Incompatible materials

Oxidising agents.

10.6. Hazardous decomposition products

Burning produces irritating, toxic and obnoxious fumes. Fire will produce dense black smoke.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitisation	No sensitization effects reported.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No carcinogenic effects reported.
Reproductive toxicity	No teratogenic effects reported.
Aspiration hazard	Aspiration hazard H304 has been eliminated due the kinematic viscosity of the product being above 20.5 mm ² /s @ 40°C.
Repeated or prolonged exposure	Repeated or prolonged exposure may cause damage to liver, kidneys and central nervous system.

11.1.4. Toxicological Information

Naphtha (Petroleum), Hydrosulfurized Heavy; Low Boiling	Oral Rat LD50: 15000 mg/kg	Dermal Rabbit LD50: 3400 mg/kg
	Inhalation Rat LC50/4 h: 3100 mg/l	

SECTION 12: Ecological information

12.1. Toxicity

Naphtha (Petroleum), Hydrosulfurized Heavy; Low Boiling	Daphnia EC50/48h: 20.0000 mg/l	Rainbow trout LC50/96h: 10 - 30 mg/kg
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12.2. Persistence and degradability

Not readily biodegradable.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

May cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

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General information

	Contact a licensed waste disposal company. 08 01 11* waste paint and varnish containing organic solvents or other dangerous substances. 17 03 02 bituminous mixtures other than those mentioned in 17 03 01.
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Disposal of packaging

	After final product withdrawal, all residues must be removed from containers (drip-free, powder-free or paste-free). Contact a licensed waste disposal company. 15 01 10* packaging containing residues of or containing by dangerous substances.
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SECTION 14: Transport information

Hazard pictograms

	 
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14.1. UN number

	UN1999
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14.2. UN proper shipping name

	TARS, LIQUID
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14.3. Transport hazard class(es)

ADR/RID	3
Subsidiary risk	-
IMDG	3
Subsidiary risk	-
IATA	3
Subsidiary risk	-

14.4. Packing group

Packing group	III
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14.5. Environmental hazards

Environmental hazards	Yes
Marine pollutant	Yes

ADR/RID

Hazard ID	30
Tunnel Category	(D/E)

IMDG

EmS Code	F-E S-E
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IATA

Packing Instruction (Cargo)	366
Maximum quantity	220 L
Packing Instruction (Passenger)	355
Maximum quantity	60 L

SECTION 15: Regulatory information

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

Regulations	This Safety Data Sheet has been prepared in accordance with Regulation (EC) No 1907/2006 of
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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

	the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Classification has been made in accordance with Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation).
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15.2. Chemical safety assessment

	Not required.
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SECTION 16: Other information

Other information

Data sources	Data extracted from individual component Safety Data Sheets.
Text of Hazard Statements in Section 3	<p>EUH066 - Repeated exposure may cause skin dryness or cracking.</p> <p>Flam. Liq. 3: H226 - Flammable liquid and vapour.</p> <p>Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.</p> <p>STOT SE 3: H336 - May cause drowsiness or dizziness.</p> <p>STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure .</p> <p>Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.</p>
Maximum content of VOC	300 g/l.