

Safety Data Sheet

according to 1907/2006/EC, Article 31

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

1.1 Product identifier

Trade name: RHINOPHALT®

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

Application of the substance / the preparation: Asphalt/macadam preservative.

1.3 Details of the supplier of the safety data sheet

ASI Solutions Ltd

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Linford Wood

Milton Keynes

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Fax: +44 (0) 1908 246001

Email: Enquiries@asisolutions.co.uk

1.4 Emergency telephone number

ASI Solutions Ltd +44 (0)1908 246000; Mobile: +44 (0)7702 635433.

UK - National Poisons Emergency: +44 870 600 6266 (24h - health professionals only).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

Flam. Liq. 3 H226 Flammable liquid and vapour.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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

R10-52/53-67: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS02



GHS07

Signal word: Warning

Hazard-determining components of labelling:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics



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Hazard statements:

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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.

SECTION 3: Composition/information on ingredients**3.2 Chemical characterization (Mixtures)**

Hazardous components		
EC: 927-241-2 Reg.nr.: 01-2119471843-32-xxxx	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics. Xn R65. R10-52/53-66-67 Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 3, H412	50-100%
EC: 232-490-9 CAS: 8052-42-4	Asphalt Substance with a Community workplace exposure limit	10-25%
EC: 295-532-5 CAS: 92062-17-4	Tall oil, reaction products with N-(2-aminoethyl)piperazine Xi R38-41; N R50/53 Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315	<2.5%

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

SECTION 4: First aid measures**4.1 Description of first aid measures****After inhalation**

Supply fresh air. Consult doctor if symptoms persist.

After skin contact

Wash with water and soap and rinse thoroughly.

Contact a doctor if symptoms arise.

After eye contact

Remove contact lenses, if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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After swallowing

Do not induce vomiting; call for medical help 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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO₂, sand, extinguishing powder, alcohol-resistant foam, or fine water spray.

Unsuitable extinguishing agents

High volume water jet.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment

Wear liquid-tight chemical protective suit and breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Do not flush with water or aqueous cleansing agents.

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.

SECTION 7: Handling and storage

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.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles

Vertical storage tanks or barrels that are classified as packaging group III may be used for storage.



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Information about storage in one common storage facility

Store away from oxidizing agents.

Further information about storage conditions

Protect from heat and direct sunlight.

Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
8052-42-4 Asphalt	
WEL (Great Britain)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³

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

8.2 Exposure controls

General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Recommended Filter type: A

Protection of hands



Protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Eye protection



Safety glasses with side-shields (e.g. EN 166).

Body protection

Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Viscous liquid.
Colour:	Black.
Odour:	Petroleum-like.
Odour threshold:	Not determined.
pH-value at 20°C:	Not determined.



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Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	130-166°C
Flash point:	25-26°C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive air / vapour mixtures are possible.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Oxidizing properties:	Not determined.
Vapour pressure at 25°C:	38.05 mmHg.
Density at 20°C:	0.84 g/cm ³
Vapour density at 20°C:	0.995 g/cm ³
Evaporation rate at 20°C:	0.35 (Butyl acetate = 1)
Solubility in / Miscibility with water:	Insoluble.
Partition coefficient (n-octanol/water):	Not determined.
Kinematic Viscosity at 40°C (IP71):	30-50 mm ² /sec.

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Avoid temperatures superior to 60° C.

10.5 Incompatible materials

Avoid strong oxidants, strong alkalis and strong acids.

10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

SECTION 11: Toxicological information



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11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values:		
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics (EC: 927-241-2)		
Oral	LD50	> 5000 mg/kg bw (rat)
Dermal	LD50	> 3160 mg/kg (rabbit)

Primary irritant effect

on the skin: Excessive contact with skin, in some cases, may result in mild dermatitis.

on the eye: May cause irritation.

Sensitization: No sensitizing effects known.

SECTION 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 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

Harmful to aquatic organisms.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Wastes should be disposed of in accordance with local regulations.

Do not allow product to reach sewage system.

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA, ADN

UN1999

14.2 UN proper shipping name

ADR, IMDG, IATA, ADN

TARS, LIQUID

14.3 Transport hazard class(es)



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ADR, IMDG, IATA, ADN



Class

3 Flammable liquids.

14.4 Packing group

ADR, IMDG, IATA, ADN

III

14.5 Environmental hazards

Marine pollutant:

No

14.6 Special precautions for user

Warning: Flammable liquids.

Danger code (Kemler):

30

EMS Number:

F-E,S-E

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

Not applicable.

Additional information:

ADR

-Tunnel restriction code:

D/E

-Emergency Action Code (EAC):

2W

IMDG

IMDG code MFAG

IATA

Not allowed except in quantities less than 5 litres.

SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

R10 Flammable.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways



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IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Data compared to the previous version altered:

Sections 1 & 9, and footer information.

MATERIAL SAFETY DATA SHEET



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