



RHINOSEAL®

Material Safety Data Sheet according to 93/112/EC

N/E = Non Established
 N/A = Not Applicable
 N/D = No Data Available

TRADE NAME

Rhino seal®

OTHER COMMENTS

This data sheet is issued in relation to the product being used in our Rhino seal process. This data sheet may not be applicable for other uses other than for the processes stated above.

ISSUE DATE

January 2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDENTIFICATION OF PRODUCT	SUPPLIER	IN CASE OF EMERGENCY CALL	CONTACT
RHINOSEAL	ASI Solutions plc Unit 4 Station Road Industrial Estate Station Road Winslow Bucks MK18 3RQ	ASI Solutions plc +44 (0)1296 715151	Operations Manager

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL COMPOSITION	CAS NO.	EINECS	CLASSIFICATION
GILSONITE	12001-43-6	none	none
AROMATIC OIL	64747-53-6	none	none
WATER	7732-18-5	none	none
PETROLEUM ASPHALT	8052-42-4	none	none
ADDITIVES	none	none	none

The identity of the additives is confidential.

The additives are not considered hazardous in this product.



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3. POTENTIAL HEALTH HAZARDS

- Rhinoseal is a liquid, emulsion/bituminous product containing Gilsonite resin, petroleum asphalt and aromatic oils.
- There is no flash point for Rhinoseal (unless all of the water is removed) and, accordingly Rhinoseal is a NON-FLAMMABLE PRODUCT.
- Contact with skin may result in mild dermatitis.

4. FIRST AID MEASURES

Inhalation	If unconscious turn into recovery position and seek medical help.
Skin Contact	Wash with hand cleaner and soap and water.
Eye Contact	Flush with large amounts of water while holding eyelids open, get medical help.
Ingestion	If victim is conscious, give liquids. DO NOT INDUCE VOMITING.
Advice to Doctor	No specific advice. Treat according to symptoms present.

5. FIRE FIGHTING MEASURES

Flash Point	N/A
Explosive Limits	N/A
Auto-Ignition Temp	N/A
Fire Point	N/A
Extinguishing Media	Dry Powder
Hazardous Decomposition	Carbon monoxide and carbon dioxide.
Special Fire & Explosive Hazards	If entering a confined area, firefighters should use a self contained breathing apparatus.
Unusual Fire and Explosive Hazards	Product may foam if heated above 100°C.



6. ACCIDENTAL RELEASE MEASURES

Land Spill	<p>Dike or contain spill with, dry sand, etc. Pump excess liquid to containers or storage vessel. Soak up residue with absorbent material. Scoop contaminated absorbent and diking material into containers for disposal.</p> <p>If it has entered drains, inform local authority (Fire Service, Environmental Services).</p>
Water Spill	<p>Stop source if possible to do so without hazard. Advise authorities</p>
Water Disposal	<p>Recovered materials should be disposed of in accordance with local, health & safety and environmental regulations.</p>

7. HANDLING AND STORAGE

Handling	<p>Always decant from barrel into sealed container or application device, avoiding any spillages. Use good personal hygiene and housekeeping.</p>
Storage Recommendations	<p>Either vertical or horizontal storage tanks or barrels may be used for storage. Keep in tightly closed, clearly marked containers. Do not store in excess of 93°C.</p>
Storage Class	<p>Not applicable</p>

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection	<p>When being used in the Company's processes stated above, no respiratory protection is required.</p>
Skin Protection	<p>Rigger gloves and usual overalls are sufficient protective garments.</p>
Eye Protection	<p>When being used in the Company's processes stated above, eye protection is required; goggles must be worn.</p>



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Viscous liquid
Form / Colour	Brown liquid turning black once cured
Odour	Resinous odour
Flash Point / Closed Cup	N/A
Boiling Point	100°F (37.8°C)
Vapour Pressure	23.7mm of Hg at 77°F (25°C)
Vapour Density	0.62
Solubility in Water	100%
Specific Gravity	1.02
Percent Volatile in Volume	32-42%
Evaporation Rate	N/D

10. STABILITY AND REACTIVITY

Stability	Stable
Incompatibility	Avoid contact with strong oxidisers.
Hazardous Polymerisation	Will not occur.

11. EXPOSURE CONTROLS / PERSONAL PROTECTION

The health effects below are consistent with requirements under OSHA Hazard Communication (29 CFR 1910.2000)

Inhalation	Vapour may cause drowsiness, nausea, and dizziness in very confined areas
Skin Contact	May result in mild dermatitis.
Eye Contact	Material may be irritating to eyes.
Ingestion	Liquid if ingested may cause nausea and vomiting.



12. ECOLOGICAL INFORMATION

Not experimental ecotoxicological data on the material is available.

Spills on Soil	Prevent any potential spills onto soil.
Spills in Water	May be harmful to aquatic organisms and environment. Do not allow.
Emissions into Atmosphere	N/A

13. DISPOSAL CONSIDERATIONS

Handling of Waste	Dispose of this material as hazardous waste according to applicable local regulations.
Disposal of Empty Containers	Empty containers should be disposed of in accordance with local regulations.

14. TRANSPORT INFORMATION

Land Transport	Not Regulated
Sea Transport	Not Regulated
Air Transport	Not Regulated

15. REGULATORY INFORMATION

Risk Phrases	None.
Safety Phrases	None.

16. OTHER INFORMATION

The information contained in this document is to the best of our knowledge accurate, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept liability for any loss or damage, however arising, which may result directly or indirectly from the use of such information.