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1. Substance and producers company identifications

THE COMMERCIAL NAME	ASPHIX L/80
USAGE	It is used to improve the adhesive qualities of bitumen and bitumen emulsions used for maintenance, repair, upgrading and construction of roads. Using the product is required if the bitumen and bitumen emulsion show a low adhesion to the natural aggregate.
GROUP OF CLASSIFICATION OF ASPHIX L/80	Xi : R36/38
CONTACT DETAILS	
COMPANY NAME:	MACISMO INTERNATIONAL LTD
ADDRESS:	4 The Triangle, Wild Wood Drive, Worcester WR5 2QX
COUNTRY:	United Kingdom
PHONE NO:	(UK) 08445 93 93 93 (Intl) +44 (0)1905 616 638
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2. Composition/ Information about the products components

Mixture of amidoimidazoline substituted in the second position quaternized.

Constituants / Dangerous components	CAS No.	CEE No.	Danger sign	R Phases
Trietilentetramine	112-24-3	203-950-6	Xn C	R21 R34-43-52/53

3. Danger identification

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to 67/548/CEE [DSD] Directive
Hazard Classes: Xi -Irritant ; R 36/38 Irritant for eyes and skin



Classification according to conform (CE) no. 1272/2008 [CLP/GHS] Regulation
Skin corrosion/irritation, Category 2, H315
Serious eye damage/Eye irritation, Category 2, H319

In normal conditions of use the product does not constitute a danger for health.

HAZARD ICONS

GHS07 Health hazard Health dangers
Warning words : Attention



ENVIRONMENTAL DANGERS

There is no negative environmental impact as the product is Biodegradable, therefore it is not possible to pollute surfaces water courses or soil.

OTHER RISKS



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4. First Aid Measures

GENERAL

In case of doubt or symptoms persist, seek medical assistance. Do not give anything by mouth to a person who has lost his consciousness.

INHALATION

Remove to fresh air. Keep the person at rest. If not breathing, if breathing is irregular or respiratory arrest occurs provide artificial respiration or oxygen should be administered by qualified personnel.

SKIN CONTACT

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. Do not use solvents or thinners.

CONTACT WITH EYES

Wash eyes immediately with tap water, abundant for at least 15 minutes, holding eyelids open.

INGESTION

If swallowed, consult the doctor immediately and show container or label. Do not induce vomiting.

THE MOST IMPORTANT SYMPTOMS AND BOTH ACUTE AND DELAYED EFFECTS

Severe eye irritation, tearing, redness.

Causes dryness and irritation. Irritation, dryness, crevasse.

Irritating to mouth, throat and stomach. Nausea, headache.

INDICATIONS FOR ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treatment according to symptoms. No specific treatment is required.

5. Measures in Case of Fire

FIRE EXTINGUISHING MEDIA

powder, foam, powder, carbon dioxide.

SPECIAL HAZARDS CAUSED BY THE SUBSTANCE OR MIXTURE

Decomposition of the combustion product can generate toxic fumes. Exposure to decomposition products may endanger health.

RECOMMENDATIONS FOR FIREFIGHTERS

a standard gas mask and fire extinguisher.

6. Measures for Accidental Spillages

Personal precautions, protective equipment and emergency procedures: One should stop the leak if without risk. In case of accidental leaks will remove personnel who does not participate in intervention operations. Remaining staff should wear full protective clothing. The affected area must be ensured adequate ventilation.

PRECAUTION FOR THE ENVIRONMENT

Isolate the affected area to prevent leakage of product into the soil and surface waters. Spills will gather in closed containers that they manage in accordance with regulations on environmental protection. If the product contaminates lakes, rivers or sewage system shall notify the competent authorities.

CLEANING METHODS

The spillage must be covered with sand, soil or other absorbing material and mixed together very quickly. The absorbed mixture, must be collected and placed in closed containers and removed from the affected area, the area will then be cleaned with an acid water (the water pH will be between 2 – 3,5). The contaminated water will be collected to prevent contamination of surface waters or Spring water.

METHODS AND MATERIALS FOR THE CONTAINMENT OF FIRES AND FOR CLEANING.

Use non-sparking tools and explosion proof equipment. Dispose of via a licensed contractor in the field of waste disposal.

SPECIAL INDICATIONS

Do not use sawdust as an absorbing material.

7. Handling and Storage

HANDLING

Sources of ignition such as smoking and open flames are prohibited in the proper handling of this product. Avoid physical damage to product containers.

STORAGE

The product is stored in tightly closed containers in cool and dry. Store away from heat sources and away from strong oxidants.

SPECIFIC END USE:

It is used to improve the adhesive qualities of bitumen and bitumen emulsions used for maintenance, repair, upgrading and construction of roads. Using the product is required if the bitumen and bitumen emulsion shows a low adhesion to the natural aggregate.

8. The Exposal Control / Personal Protection

RESPIRATORY PROTECTION

If respiratory protection is needed, some operations will use a protective mask with filter cartridge for organic substances.

HAND PROTECTION

Wear PVC or rubber gloves

EYE PROTECTION

Use goggles / protection glasses.

SKIN PROTECTION

Wear protective clothing with long sleeves. After work and before eating or smoking wash your hands with soap and water. Contaminated equipment will be washed or cleaned before reuse.

ADDITIONAL MEASURES OF PROTECTION

Jobs will be equipped with washing points and showers. It is forbidden to eat or drink in work areas.

ENVIRONMENTAL EXPOSURE CONTROLS

The product should be stored in tightly closed containers in cool and dry, away from direct sunlight.

9. Physical and Chemical Properties

Appearance (at 20 0C)	brown viscous liquid
Content of amino-nitrogen	Max. 12
Appearance of 1% solution in 2% solution HCl at 700C	Clear to opalescent
Density (at 20 0C)	980 Kg/m3
pH	8,0-12,5
Solubility in water	Easily emulsifiable
Solubility in solvents	Propanol, ethanol, acetone, methylene chloride
Dynamic viscosity (at 20 0C)	800 mPa.s
Flash point	≥200 0C
Self-ignition	not self-igniting

10. Stability And Reactivity

REACTIVITY

No test data available for this product.

CHEMICAL STABILITY

Stable under normal use and storage.

POSSIBILITY OF HAZARDOUS REACTIONS

In normal conditions of storage and use of hazardous reactions will not occur.

CONDITIONS TO AVOID

Open flame, arc or other sources which induce thermal decomposition. Decomposition of the combustion product can generate toxic fumes.

DANGEROUS DECOMPOSITION PRODUCTS

carbon monoxide to carbon dioxide, and oxides.

11. Toxicological Information

INFORMATION ON TOXICOLOGICAL EFFECTS OF RO L 133/42 OFFICIAL JOURNAL OF THE EUROPEAN UNION 31.05.2010

No information available.

ACUTE TOXICITY

This product causes eye and skin irritation;

INHALATION

The product shows a very low volatility, but the resulting vapor under certain conditions, may cause depression of central nervous system (headaches, fatigue).

SKIN CONTACT

May cause mild irritation. Prolonged or repeated contact with substance can cause redness, burning, drying and cracking of skin.

EYE CONTACT

May cause temporary irritation of the eyes. Direct contact with product cause redness, tearing and pain.

OTHER INFORMATION

If used correctly, the product is not hazardous to human health.



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material safety data sheet

12. Ecological Information

GENERAL ADVICE

Do not allow the ground water, water or sewerage network. If the product contaminates lakes, rivers or sewage system shall notify the competent authorities.

TOXICITY

Not available

PERSISTENCE AND BIODEGRADABILITY

unavailable

BIOACCUMULATION POTENTIAL

unavailable

SOIL MOBILITY

unavailable

RESULTS OF PBT ASSESSMENT AND VPVB

unavailable

13. Considerations About The Removal Of Residues

PRODUCT ELIMINATION

Product remnants are classified as hazardous. Accidental leaks or spills into the environment if they can not be recovered will be disposed of as waste. Further storage / destruction of residues will be made in accordance with the rules and legal regulations on environmental protection. For more information contact your local waste authority.

14. Information About the Transportation

LAND TRANSPORT (ADR / RID)

Not subject to requirements

SHIPPING

Not subject to requirements

AVIATION

Not subject to demand.

15. Information About the Regulations

THE INFORMATION PROVIDED REGARDING HEALTH AND SAFETY WERE ILLEGAL

EC Regulation 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and EC Regulation 1272/2008 (CLP)

NOTE

The regulatory information given above only indicates the principal regulations specifically stated in the product safety data sheet. The user should be aware of the possible existence of additional provisions which complete these regulations. Refer to the regulations and the national, international and local.



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16. OTHER INFORMATION

The product is destined for industrial usage. It isn't dangerous for the environment and for the people's health if it is used properly.

The information shown in this technical data sheet is aimed at preventing the risks about handling and utilization of the product. This data is based on our actual knowledge, and does not represent information about our product quality and does not motivate any contractual judicial report.

Eticheta CE

HAZARD SYMBOLS Xi-Irritant



R PHRASES

R 36/38 Irritating to eyes and skin

S PHRASES

S 24/25 Avoid contact with skin and eyes.

S 26 In case of contact with eyes, rinse immediately with plenty of water and consult a specialist

S 37 to wear gloves.

HAZARD ICON



HAZARD PHRASES

H315: Causes skin irritation.

H318: Causes serious eye irritation.

PRECAUTIONARY STATEMENTS

P281: Use personal protective equipment as required.

P302 + P352: IN CASE OF CONTACT WITH SKIN: Wash with soap and water.

P305 + P351 + P338: IN CASE OF CONTACT WITH EYES: Rinse cautiously with water

for several minutes. Remove contact lenses, if any, and if this can be done easily. Continue to rinse.

P337 + P313: If eye irritation persists: consult a physician.

The information contained in this sheet are presented in order to notice on the risks associated with handling and use of the product. Data were reported based on our current knowledge, they do not represent information on product quality and shall not establish a legally valid contractual relationship.

Drawn by: Chemist Diana Mihail

DIRECTOR

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