



Lake Asphalt

SAFETY DATA SHEET

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT: Trinidad Lake Asphalt (TLA)

MANUFACTURER: Lake Asphalt of Trinidad & Tobago (1978) Limited

Brighton La Brea

Trinidad and Tobago

Telephone No. +1(868) 648-7555/7572

SYNONYMS: Natural Asphalt, Dried Asphalt (DA), Trinidad Refined Asphalt (Epure)

PRODUCT USE: Modifier for Refinery Bitumen and Road Asphalts when processed.

DATE OF PREPARATION/REVISION: 08th January, 2024

2. COMPOSITION, INFORMATION ON INGREDIENTS

Semi-solid black combination of Asphalt and inorganic matter.

The components of natural asphalt include:

1. Bitumen 52 to 55%
 - a Saturated polycyclic compounds containing oxygen, sulphur and clay minerals.
 - b Polar Aromatic and naphthenic compounds. Also contained are aromatic compounds and aliphatic compounds.
 - c Asphaltenes
2. Mineral matter, 33 to 38% comprises – Silica, Alumina, Ferric Oxide and other trace compounds.
3. Other constituents, which cannot be assigned either to the bitumen or to the minerals parts.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

When used at handling temperatures up to 160°C. Heated asphalt can cause severe skin burns and eye injury. Eye, skin, gastrointestinal, and respiratory tract irritation can occur.



ROUTE OF ENTRY: Skin contact, Eye contact, Inhalation, Ingestion

EFFECTS OF ACUTE EXPOSURE:

EYES: Hot asphalt and asphalt fumes may cause irritation and burns.

SKIN: Hot Asphalt and Asphalt fumes may cause moderate to severe irritation and burns.

INGESTION: Irritation of gastrointestinal tract, vomiting and a danger of aspiration.

INHALATION: Asphalt fumes may cause moderate to severe irritation of the nose, throat and respiratory tract. May cause headache, nausea, sore throat. Fumes contain carbon dioxide, carbon monoxide, and unburnt hydrocarbons.

Precautionary Statements

Prevention: Wash skin thoroughly after handling.
Wear protective gloves.
Wear safety eye glasses.
Wear long sleeved clothing

4. FIRST AID MEASURES

EYES: Immediately flush eyes with water for at least 15 minutes. Remove deposits around eyes, eyelashes and eyebrows by wiping carefully with a soft cloth soaked in medicinal paraffin oil; do not force eyelids open. If irritation persists, seek medical attention.

SKIN: Immediately cool the affected area in cold water. Remove contaminated clothing. Use a medically approved solvent to help remove cold asphalt that has adhered to the skin. Wash affected area with soap and water. Avoid abrading the skin during washing. If irritation persists, seek medical attention.

INGESTION: Ingestion is not likely. If it occurs, do not induce vomiting and seek immediate medical attention.

INHALATION: Move to fresh air in case of accidental inhalation of vapours (generated at elevated temperatures). If symptoms or irritation occur, seek prompt medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT: >200 °C

FLAMMABLE LIMITS: Upper: NA, Lower: NA

Auto Ignition Temperature: NA

EXTINGUISHING MEDIA:

Carbon Dioxide, dry chemical, foam. Caution: Hot Asphalt will react violently with water.

FIRE FIGHTING PROCEDURES:

Isolate area around container involved in fire. Use water to cool tanks, shells, and containers exposed to fire and excessive heat. Avoid spraying water directly into containers due to danger of violent eruption and spreading of burning molten asphalt.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and positive pressure self-contained breathing apparatus with full-face mask.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

LEAK AND SPILL PROCEDURE:

Shut off any heat source and ventilate spill area. Dike spills with sand, earth or non-flammable, absorbent material, Clean contaminated area with water and detergent.

7. HANDLING AND STORAGE

HANDLING:

Avoid excessive heating and oxidizing materials.

When cold: handle as bulk goods

When liquid: wear personal protective equipment. Protect container against ingress of water

STORAGE:

Keep away from oxidizing materials.

When cold: store as bulk goods

When liquid: store in an insulated molten matter container, avoid overheating. Keep away from ignition sources. Keep away from water. Ventilate. Keep containers tightly closed.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ensure there is sufficient ventilation of the area. Ventilate confined spaces before entry.

PERSONAL PROTECTIVE EQUIPMENT:

Hand: When handling product at elevated temperatures, use long-cuffed leather or heat resistant gloves.

Eyes: Safety glasses

Clothing: Heat resistant clothing

Footwear: Safety boots

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Form: Semi-Solid

Colour: black/brown matte

Odour: Depending on temperature slight sulphur may be present.

pH: Not applicable

VAPOUR PRESSURE: N.A.

VAPOUR DENSITY (Air = 1): N.A.

SOFTENING POINT: 85 - 99 °C

FLASH POINT: > 200 °C

MELTING POINT: N.A.

BOILING POINT: N.A.

SPECIFIC GRAVITY: 1.39 - 1.44 @ 25 °C

EVAPORATION RATE: N.A.

SOLUBILITY: Immiscible with water

ODOUR THRESHOLD: N.A.

10. STABILITY AND REACTIVITY

STABILITY: Stable

REACTIVITY: Non-reactive

CONDITIONS TO AVOID: N.A.

MATERIALS TO AVOID: Strong oxidizing agents.

HAZARDOUS COMBUSTION PRODUCTS: None when used in the field of asphalt construction.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: No data

Fumes emitted from heated product are irritating to the eyes and respiratory tract.

12. ECOLOGICAL INFORMATION

Not available

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Recycle and reuse material if possible. Off-site spills should be dealt with according to relevant legislation. Transfer to a suitable container and arrange for collection by specialised disposal company.

14. TRANSPORT INFORMATION:

Cold, solid Trinidad Lake Asphalt shipped at ambient temperatures

UN Number: Not regulated

Packing group: Not applicable

Hazard class: Not applicable.

Proper shipping name: Not applicable.

International Regulations

IATA:

Not regulated as a dangerous good

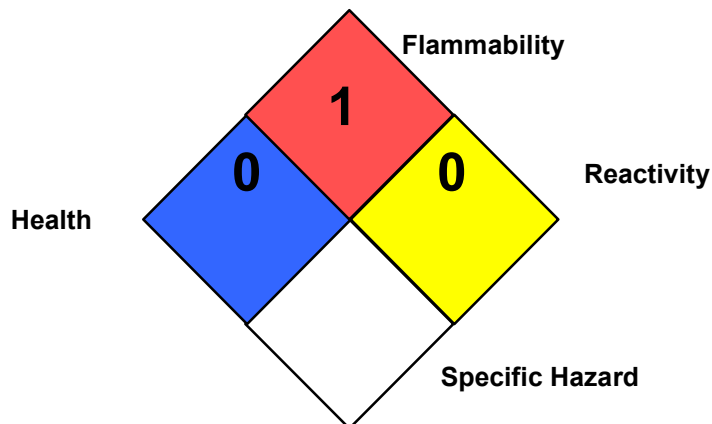
IMDG:

Not regulated as a dangerous good

HS Code: 2714.90: Bitumen and asphalt, natural

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the UN GHS and the SDS contains all the information required by the GHS.

16. OTHER INFORMATION**NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.)**

HEALTH=0 - No hazard beyond that of ordinary combustible material.

FLAMMABILITY=1 - Must be preheated to high temperature before ignition can occur.

REACTIVITY=0 - Stable, even under fire conditions.

SPECIFIC HAZARD= none

DISCLAIMER

The information and recommendations contained in this SDS are believed to be accurate as at the date of its preparation. Lake Asphalt Trinidad & Tobago (1978) Limited (LATT) makes no representations or warranties, express or implied, with respect to the accuracy or completeness of the information contained herein. LATT assumes no responsibility for incorrect handling or use of the product or the inherent hazards involved in the nature of the product itself.