

Material Safety Data Sheet

PRODUCT : **BITUMEN**

SECTION 1 : PRODUCT IDENTIFICATION

Trade Names : Bitumen, Coal Tar, Asphalt, Asphaltum

Chemical Family : Higher hydrocarbons (Residual Type)

Recommended use : Rolled Asphalt Concrete
 Formulation & (re)packing of substances and mixtures
 Used in paint, ink industries

SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name of the substance : Higher hydrocarbons (diesel type fraction)

Other information : The Residue obtained from the fractional distillation of crude oil boiling at 525°C

SECTION 3 : HAZARDS IDENTIFICATION

Hazard Statements : May be fatal if swallowed and enters airways.
 Repeated exposure may cause skin dryness or cracking.

Precautionary Statements : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 Do NOT induce vomiting.
 Dispose of contents/container according to national regulations and local authorities' advice. Other hazards
 Combustible liquid. Oil mist may irritate the eyes and the respiratory tract.
 Risk of soil and ground water contamination.

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SECTION 4 : FIRST AID MEASURES

Description of first aid measures

- Inhalation** : Inhalation is unlikely because of the low vapour pressure of the substance at ambient temperature. If breathed in, move person into fresh air. Consult a physician.
- Skin contact** : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
- Eye contact** : Rinse immediately with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
- Ingestion** : DO NOT INDUCE VOMITING. In case of ingestion, always assume that aspiration has occurred. Consult a physician (risk of aspiration into the lungs especially if nausea or irritation occurs).

Most important symptoms and effects, both acute and delayed

Aspiration into the lungs can cause fatal chemical pneumonitis. Oil mist may irritate the eyes and the respiratory tract. Prolonged or repeated contact causes drying and irritation of the skin.

Indication of immediate medical attention and special treatment needed

Aspiration into the lungs can cause fatal chemical pneumonitis

SECTION 5 : FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media (Dry powder, carbon dioxide. Sand). Heavy foam and water fog for professional fire-fighters.

Special hazards arising from the substance or mixture

Combustible liquid. Explosion risk due to pressure increase if product containers or tanks are subjected to fire. Strong heating or fire can produce carbon monoxide and other products resulting from uncomplete combustion.

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Advice for firefighters

Cool product containers and tanks near the fire with water spray from a sufficiently safe distance.

Specific methods

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Eliminate fire risk by keeping ignition sources out of the area. Evacuate people upwind from the spill area. Wear adequate protective equipment at all operations.

Environmental precautions

Try to restrict the release and prevent spread of the product into the environment. Collect liquid before it spreads into drains, the ground and waters. In case of spill, immediately contact local authorities. Risk of soil and ground water contamination.

Methods and materials for containment and cleaning up

Immediately start clean-up of the liquid and contaminated soil. Small amounts can be collected using absorbent material. Pay attention to the fire and health hazards caused by the product.

SECTION 7 : HANDLING AND STORAGE

Precautions for safe handling

Handle the product in closed systems or provide sufficient ventilation. Avoid skin contact and inhalation of oil mist. Wear protective equipment when needed. When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Spillages make surfaces slippery. During tank operations follow special instructions (risk of oxygen displacement and hydrocarbons). Keep away from fire, sparks and heated surfaces. Take measures to prevent the build up of electrostatic charge.

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Conditions for safe storage, including any incompatibilities

In a tank or a store suitable for combustible liquids. Take precautionary measures to prevent product spills into drains, the ground or waters. Take precautions against leakage by constructing collecting pools and sewerage systems as well as by surfacing the loading and unloading stations. Retail batches are stored in tightly sealed, labelled containers which are impermeable to the product. Store in accordance with local regulations. Keep in properly labelled containers. Recommended materials for containers or container linings: carbon steel, stainless steel. Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use.

SECTION 8 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Black or Brownish, tarry texture
Physical State	: Viscous liquid
Odor	: Solvent like odor
Odor	: Not Applicable
Flash point	: >166 °C
Specific Gravity	: 1.02 @ 20 °C

SECTION 9 : STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None known.

Conditions to avoid

Keep away from fire, sparks and heated surfaces.

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Incompatible materials

Oxidizing agents

Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 10 : DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Disposal Recommendations

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

Regulatory Disposal Information

Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP).
Potential RCRA characteristics: IGNITABILITY.

Empty Container Warning

Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

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SECTION 11 : TRANSPORT LABEL



SECTION 12 : OTHER INFORMATION

This product is supplied on the understanding that it will be used in the manner and for the purpose(s) specified in the product data sheet, the user having taken all precaution stimulated. Failure to follow such direction may adversely affect any rights that the user might have against the company. Before application other than as directed, advice must be obtained from the company.

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