

Gulf Farabi

Petrochemical Company, Ltd

Limited Liability Saudi Company
Capital: SR 305 Million Fully Paid

شركة فارابي الخليج

للبتروكيماويات المحدودة

شركة سعودية ذات مسؤولية محدودة
رأس المال ٣٠٥ مليون ر.س. مدفوع بالكامل

MSDS of Heavy Alkylate

Section 1: Chemical Product and Company Identification

Product Name: Heavy Alkylate

CAS#: 84961-70-6

EINECS No.: 284-660-7

Synonym: Benzene C10-C13 mono alkyl, distillation bottoms; Heavy Alkyl Benzenes

Chemical Family: Hydrocarbons, aromatic

Chemical Formula: C_nH_{2n} (C_6H_5)₂; (C_nH_{2n})₂ C₆H₄ [n = 10 to 13]

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Section 2: Composition and Information on Ingredients

Name: Heavy Alkylate

CAS: 84961-70-6

% by weight: 99.9, typical (balance being Benzene, C10-C13 mono alkyl)

Section 3: Hazards Information

NFPA Ratings: Health=1; Fire=1; Reactivity=0

Major health hazards: No significant effects reported

Potential Health Effects

Inhalation

Short Term Exposure: Irritation, symptoms of drunkenness, lung congestion

Long Term Exposure: No information available

Skin contact

Short term exposure: No information available

Long term exposure: Irritation

Eye Contact

Short term exposure: Irritation, itching, tearing

Long term exposure: No information available

Ingestion

Short term exposure: Symptoms of drunkenness

Long term exposure: No information available

Carcinogen Status

OSHA: No; IARC: No

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Section 4: First Aid Measures

Inhalation: Remove to fresh air; get immediate medical attention

Skin contact: Wash with soap water. Seek medical attention if needed. Contaminated clothing and shoes be cleaned and dried thoroughly before reuse.

Eye contact: Immediately flush with plenty of water for at least 15 minutes and seek medical attention if irritation persists

Ingestion: If large amount is swallowed, seek medical attention.

Section 5: Fire and Explosion Data

Flammability: May be combustible at high temperatures

Auto Ignition temperature: Not available

Flash Point: About 180 °C

Products of combustion: Carbon oxides

Extinguishing Media: Dry chemical powder, Carbon dioxide, water, and regular foam. In case of large fires use regular foam or flood with fine water sprays.

Fire fighting: Move container from fire area if it can be done without risk. Do not scatter spilled material with high pressure water streams. Dike for disposal. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Section 6: Accidental Release Measures

Occupational release: Arrest leak if possible without personal risk. Prevent liquid entering sewers and basements. Absorb with inert material (sand) and dispose appropriately.

Section 7: Handling and Storage

Precautions: Keep away from heat, sources of ignition, and incompatibles such as oxidizing agents.

Storage: Keep container tightly closed, in a cool, well-ventilated area.

Section 8: Exposure Controls / Personal Protection

Exposure limits: No occupational exposure limits established

Engineering Controls: Provide exhaust ventilation system.

Eye Protection: Wear splash resistant safety goggles. Ensure eye wash and showers are in the proximity to work-station location

Clothing and Gloves: PVC/Rubber hand gloves, and Protective clothing

Respirator: Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

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Section 9: Physical and Chemical Properties

Physical state: Liquid (Organic)

Odor: Characteristic

Molecular Weight: ca. 350

Color (ASTM): 0.8 (typical)

pH (1% solution in water): Not applicable

Boiling Point: 370-420 °C (typical)

Melting Point: Not Available

Specific Gravity: 0.865 @ 15°C (water=1)

Vapor Pressure: <0.1 kPa

Vapor Density: Not Available

Water/Oil Dist. Coefficient: $\log P_{ow}$ – ca. 3.5 at 23°C

Solubility: Insoluble in cold water

Section 10: Stability and Reactivity Data

Stability: Stable at normal temperatures and pressures

Conditions of to avoid: heat, flames, sparks and other sources of ignition; incompatibles

Incompatibilities: oxidizing agents

Polymerization: will not polymerize

Section 11: Toxicological Information

Inhalation

Acute exposure: Vapors may cause irritation, central nervous system depression, pulmonary edema and possibly hepatic, renal or bone marrow disorders.

Chronic exposure: No data available

Skin contact

Acute exposure: No data available

Chronic exposure: May cause de-fatting of the skin and subsequent dermatitis

Slightly irritating to rabbit

Eye Contact

Acute: Direct contact of aromatic hydrocarbons with the eye causes irritation, itching, and a burning sensation.

Chronic exposure: No data available

Slightly irritating to rabbit

Ingestion

Acute exposure: Aromatic hydrocarbons may cause central nervous system depression and possible liver and kidney injury.

Chronic exposure: No data available

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Section12: Ecological Information

Eco-toxicity: Not available

BOD5 and COD: Not available

Biodegradation: Inherently biodegradable

Section13: Disposal Considerations

In accordance with applicable regulations

Section14: Transport Information

Not classified as hazardous for any form of International transport

Section15: Other Regulatory Information

Not regulated

Section16: Other Information

Other special considerations: Not available