

SASOLAB C12L Alkylate**SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

Trade name	SASOLAB C12L Alkylate		
Synonyms	Linear Alkylbenzene		
Use	Raw material for chemical processes		
Company	Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)		
Address	12120 Wickchester Lane, Houston, TX 77079		
Telephone	CHEMTREC North America Transportation Emergency (24-hr)	(800) 424 9300	
	CHEMTREC World Wide	(703) 527-3887	
	Other Emergencies (24-hr)	(337) 494 5142	
	SDS and Product Information (8:00am-4:30pm CST)	(281) 588 3491	
	Health and Safety Information (7:30am-4:00pm CST)	(281) 588 3492	
E-mail address	SasolElectronicSDS@us.sasol.com		

SECTION 2 HAZARDS IDENTIFICATION

OSHA/GHS Hazards	Aspiration hazard	Category 1
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LABEL ELEMENTS

Hazard symbols

**Signal word** Danger**Hazard statements** H304 May be fatal if swallowed and enters airways.**Precautionary statements**

Response P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.

Storage P405 Store locked up.

Disposal P501 Dispose of contents/ container to an approved waste disposal plant.

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SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Benzene, mono-C10-13-alkyl derivs.	129813-58-7	75
Benzene, mono-C12-14-alkyl derivs.	129813-59-8	17.5 - 25
Benzene, C10-13-alkyl derivs.	67774-74-7	0 - 7.5

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

SECTION 4 FIRST AID MEASURES

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.

Ingestion If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion May be ignited by open flame. NFPA Class IIIB combustible liquid.

Suitable extinguishing media Water spray or fog, foam, dry chemical, CO₂.

Protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective suit. Keep containers and surroundings cool with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**SASOLAB C12L Alkylate**

SECTION 7 HANDLING AND STORAGE

Safe handling advice Ensure all equipment is electrically grounded before beginning transfer operations.

Storage/Transport pressure Ambient

Load/Unload temperature Ambient

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Ensure adequate ventilation, especially in confined areas.

PERSONAL PROTECTIVE EQUIPMENT

Eyes Wear as appropriate: Goggles, Face-shield

Skin Wear suitable protective clothing, gloves and eye/face protection.

Inhalation Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES

Contains no substances with occupational exposure limit values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid;

Colour colourless oily

Form liquid

Odour odourless

Odour Threshold No data available

Flash point 143 °C, 290 °F; PM;

Flammability Upper explosion limit: No data available

Lower explosion limit: No data available

Boiling point/boiling range 283 - 303 °C, 542 - 577 °F;

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Melting point/range	Pour point: < -65 °C, < -85 °F;
Auto-ignition temperature	238 °C, 460 °F;
Decomposition temperature	No data available;
Flammability (solid, gas)	No data available
Vapour pressure	< 0.1 mm Hg @ 20 °C, 68 °F;
Vapour density	8 - 9
Density	0.860 g/cm ³ @ 16 °C, 60 °F;
Relative density	No data available
Water solubility	0.041 mg/l @ 27 °C, 80 °F; insoluble
Viscosity	4.2 cSt @ 40 °C, 104 °F;
pH	No data available
Evaporation rate	No data available
Partition coefficient: n-octanol/water	No data available

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Stable at normal ambient temperature and pressure.
Chemical stability	No decomposition if stored and applied as directed.
Conditions to avoid	Stable under recommended storage conditions.
Hazardous decomposition products	None.
Materials to avoid	Oxidizing agents
Hazardous polymerisation	None.

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SECTION 11 TOXICOLOGICAL INFORMATION

Additional Remarks	The following effects have been reported in studies with animals exposed by a variety of routes to similar linear alkylbenzenes on a repeated basis: Decreased body weight, food consumption and maternal weight gain; effects on offspring (none at low dose); liver toxicity; increased tumors following lifetime dermal exposure at skin damaging concentrations (skin damage confounds the interpretation of the significance of these effects for human health). The product itself has not been tested.
Acute dermal toxicity	LD50 Rat: 2,000 mg/kg; OECD Test Guideline 402 (literature value)
Acute inhalation toxicity	Negligible or unlikely exposure pathways
Acute oral toxicity	LD50 Rat: > 2,000 mg/kg; Directive 67/548/EEC, Annex V, B.1.
Skin corrosion/irritation	(Rabbit) Moderately irritating
Serious eye damage/eye irritation	(Rabbit) Not irritating
Respiratory or skin sensitisation	Guinea pig: not sensitizing; Maximisation Test OECD Test Guideline 406
Germ cell mutagenicity	Genotoxicity in vitro: Result: In vitro tests did not show mutagenic effects (literature value) Genotoxicity in vivo: Result: In vivo tests did not show mutagenic effects (literature value) Assessment Mutagenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity	Reproductive toxicity: Rat; Oral; OECD Test Guideline 416 NOAEL (parents): 50 mg/kg NOAEL (F1): 50 mg/kg NOAEL (F2): 50 mg/kg (literature value) Assessment Reproductive toxicity: Based on available data, the classification criteria are not met. Teratogenicity: Rat; Oral; OECD Test Guideline 414 NOAEL (teratogen): 125 mg/kg

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NOAEL (maternal): 125 mg/kg
(literature value)

Assessment teratogenicity:

Based on available data, the classification criteria are not met.

STOT - single exposure The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure Rat; Oral; 28-day; OECD Test Guideline 407
LOAEL: 125 mg/kg
(literature value)
Symptoms: reduced food consumption, reduced body weight gain

Rat; Oral; 127-day; OECD Test Guideline 416
NOAEL: 50 mg/kg
LOAEL: 500 mg/kg
Subchronic toxicity
(literature value)
Symptoms: reduced body weight gain
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration toxicity May be fatal if swallowed and enters airways.

Carcinogenicity **Assessment carcinogenicity:**
Contains no ingredient listed as a carcinogen

SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity Not toxic to aquatic organisms (fish, daphnia, algae) up to water solubility.

Toxicity to fish (Danio rerio (zebra fish)) 14 d; semi-static test; OECD Test Guideline 204
In the range of water solubility not toxic under test conditions.

Toxicity to aquatic invertebrates (Daphnia magna (Water flea)) 48 hours; Directive 67/548/EEC, Annex V, C.2.
In the range of water solubility not toxic under test conditions.
(literature value)

Toxicity to algae (Scenedesmus subspicatus) 72 hours
In the range of water solubility not toxic under test conditions., (literature value)

Chronic toxicity to fish No data available

Chronic toxicity to aquatic invertebrates NOEC (Daphnia magna (Water flea)) 21 d
In the range of water solubility not toxic under test conditions.

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Biodegradation Readily biodegradable.

(28 d): > 60 %

Bioaccumulative potential Lepomis macrochirus (Bluegill sunfish) (96 d, 0.092 mg/l): BCF: 35;
Does not significantly accumulate in organisms.
(literature value)

Mobility in soil Adsorption/Soil
Koc: 22000; log Koc: 4.34
immobile, (literature value)

Other adverse effects This substance is not considered to be persistent, bioaccumulating and toxic (PBT).;

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Code Any unused product or empty containers may be disposed of as non-hazardous in accordance with state and federal requirements. If the resulting material is determined to be hazardous, please dispose in accordance with state and federal (40 CFR 262) hazardous waste regulations. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification.

Disposal methods Dispose of only in accordance with local, state, and federal regulations.

Empty containers. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, 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. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

SECTION 14 TRANSPORT INFORMATION

DOT not regulated

IATA not regulated

IMDG not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks No data available

SASOLAB C12L Alkylate**SECTION 15 REGULATORY INFORMATION****U.S. FEDERAL REGULATIONS****TSCA Inventory Listing****Components****CAS-No.**

Benzene, mono-C10-13-alkyl derivs.

129813-58-7

Benzene, mono-C12-14-alkyl derivs.

129813-59-8

Benzene, C10-13-alkyl derivs.

67774-74-7

All chemical substances in this product are either on the TSCA Active Inventory, or in compliance with the inventory.

SARA 302 Status**Components****CAS-No.****Weight percent**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Classification

Aspiration hazard

SARA 313 Chemical**Components****CAS-No.****Weight percent**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US. EPA CERCLA Hazardous Substances (40 CFR 302)**Components****Reportable Quantity****Weight percent**

none

INTERNATIONAL REGULATIONS**WHMIS Classification**

Aspiration hazard

Category 1

European Union

Classification according to Regulation (EU) 1272/2008.

Aspiration hazard, Category 1

Repeated exposure may cause skin dryness or cracking.

Australia. Inventory of Chemical Substances (AICS)

Listed

Japan. Inventory of Existing and New Chemical Substances (ENCS)

Listed

Japan. ISHL - Inventory of Chemical Substances

Not listed

Canada. Domestic Substances List (DSL) Inventory

Listed

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Canada. Non-Domestic Substance Listing (NDSL)	Not listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Listed
Korea. Existing Chemicals Inventory (KECI)	Listed
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico. National Inventory of Chemical Substances (INSQ)	Not listed
New Zealand. Inventory of Chemical Substances (NZIoC)	Not listed
Switzerland. Inventory of Notified New Substances (CHINV)	Listed
Taiwan. National Existing Chemical Inventory (NECI)	Not listed

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

STATE REGULATIONS

California Prop. 65
Components
none

CAS-No.

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
HMIS®	1	1	0
NFPA	1	1	0

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