

## NAFOL® 1822B Alcohol

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>Trade name</b>	NAFOL® 1822B Alcohol	
<b>Synonyms</b>	Blend of Linear Fatty Alcohols	
<b>Use</b>	Industrial use, Oilfield, Personal care	
<b>Company</b>	Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)	
<b>Address</b>	12120 Wickchester Lane Houston TX 77079	
<b>Telephone</b>	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
<b>E-mail address</b>	SasolElectronicSDS@us.sasol.com	

### SECTION 2 HAZARDS IDENTIFICATION

Not a hazardous substance or mixture according to OSHA HCS 2012.

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
1-Docosanol	661-19-8	67 - 71
1-Eicosanol	629-96-9	14 - 16
1-Octadecanol	112-92-5	14 - 16

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. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use.
- 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.

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**SECTION 5 FIREFIGHTING MEASURES**

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**FLAMMABLE PROPERTIES**

**Fire/explosion** NFPA Class IIIB combustible liquid.

**Suitable extinguishing media** Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)

**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**

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**Methods and materials for containment and cleaning up** Evacuate personnel to safe areas. Remove all sources of ignition. 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). Do not flush into surface water or sanitary sewer system.

**Spill precautions** Material can create slippery conditions.

**SECTION 7 HANDLING AND STORAGE**

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

**Storage/Transport temperature** Ambient

**Storage/Transport pressure** Ambient

**Load/Unload temperature** 77 - 85 °C  
170 - 185 °F

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**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.

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**Inhalation** No personal respiratory protective equipment normally required. Use respirator when performing operations involving potential exposure to vapour of the product. Use NIOSH approved respiratory protection.

**EXPOSURE GUIDELINES**

Contains no substances with occupational exposure limit values.

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Appearance</b>	solid;
<b>Colour</b>	colourless
<b>Form</b>	solid
<b>Odour</b>	characteristic
<b>Odour Threshold</b>	No data available
<b>Flash point</b>	ca. > 200 °C, > 392 °F; DIN 51758;
<b>Flammability</b>	Upper explosion limit: Not applicable Lower explosion limit: Not applicable
<b>Boiling point/boiling range</b>	No data available
<b>Melting point/range</b>	ca. 52 - 72 °C, 126 - 162 °F;
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	No data available;
<b>Flammability (solid, gas)</b>	No data available
<b>Vapour pressure</b>	ca. < 1 hPa @ 20 °C, 68 °F;
<b>Vapour density</b>	Not applicable
<b>Density</b>	ca. 0.8 g/cm <sup>3</sup> @ 80 °C, 176 °F;
<b>Specific gravity</b>	No data available
<b>Water solubility</b>	insoluble

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<b>Viscosity</b>	No data available
<b>Viscosity, dynamic</b>	ca. 6 - 8 mPa.s @ 80 °C, 176 °F;
<b>pH</b>	No data available
<b>Evaporation rate</b>	Not applicable
<b>Partition coefficient: n-octanol/water</b>	Not applicable

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**SECTION 10 STABILITY AND REACTIVITY**

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<b>Reactivity</b>	Stable at normal ambient temperature and pressure.
<b>Chemical stability</b>	No decomposition if stored and applied as directed.
<b>Conditions to avoid</b>	Keep away from heat and sources of ignition.
<b>Hazardous decomposition products</b>	Combustion products include carbon dioxide, carbon monoxide and possibly other unidentified organic compounds.
<b>Materials to avoid</b>	Can react with strong oxidizers, inorganic acids, and halogens.
<b>Hazardous polymerisation</b>	None.

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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<b>Additional Remarks</b>	Information given is based on data obtained from similar substances or components of this material.
<b>Acute dermal toxicity</b>	LD50 Rabbit: > 2,000 mg/kg Test substance: 1-Octadecanol  LD50 Rabbit: > 2,000 mg/kg Test substance: 1-eicosanol; (literature value)  LD50 Rabbit: > 2,000 mg/kg Test substance: 1-docosanol; (literature value)
<b>Acute inhalation toxicity</b>	LC50 value expected to exceed the saturated vapor concentration in air.
<b>Acute oral toxicity</b>	LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 401 Test substance: 1-Octadecanol; (literature value)

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LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 401  
Test substance: 1-eicosanol

LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 423  
Test substance: 1-docosanol; (literature value)

**Skin corrosion/irritation** (Rabbit): OECD Test Guideline 404  
Test substance: 1-Octadecanol  
Not irritating, (literature value)

(Rabbit): OECD Test Guideline 404  
Test substance: 1-eicosanol  
Not irritating, (literature value)

(Rabbit): OECD Test Guideline 404  
Test substance: 1-docosanol  
Not irritating, (literature value)

**Serious eye damage/eye irritation** (Rabbit): OECD Test Guideline 404  
Test substance: 1-Octadecanol  
Not irritating, (literature value)

(Rabbit): OECD Test Guideline 405  
Test substance: 1-eicosanol  
Not irritating, (literature value)

(Rabbit): OECD Test Guideline 405  
Test substance: 1-docosanol  
Not irritating, (literature value)

**Respiratory or skin sensitisation** Guinea pig: not sensitizing; Maximisation Test  
No data available

**Germ cell mutagenicity** **Genotoxicity in vitro:**  
Result: In vitro tests did not show mutagenic effects  
Test substance: 1-Octadecanol  
(literature value)  
Result: In vitro tests did not show mutagenic effects  
Test substance: 1-eicosanol  
(literature value)  
Result: In vitro tests did not show mutagenic effects  
Test substance: 1-docosanol  
(literature value)

**Genotoxicity in vivo:**  
Result: In vivo tests did not show mutagenic effects  
Test substance: 1-Octadecanol  
(literature value)  
Result: In vivo tests did not show mutagenic effects

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Test substance: 1-eicosanol  
(literature value)  
Result: In vivo tests did not show mutagenic effects  
Test substance: 1-docosanol  
(literature value)

**Assessment Mutagenicity:**

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

**Reproductive toxicity****Reproductive toxicity:**

Rat; Oral; 55-day; OECD Test Guideline 422  
NOAEL (parents): 2,000 mg/kg  
NOAEL (F1): 2,000 mg/kg  
Test substance: 1-Octadecanol  
(literature value)  
Rat; Oral; 90-day;  
NOAEL (parents): 1,127 mg/kg  
Test substance: 1-eicosanol  
(literature value)  
Rat; Oral; 182-day;  
NOAEL (parents): 1,000 mg/kg  
Test substance: 1-docosanol  
(literature value)

**Assessment Reproductive toxicity:**

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

**Teratogenicity:**

Rat; Oral; 55-day; OECD Test Guideline 422  
NOAEL (teratogen): 2,000 mg/kg  
NOAEL (maternal): 2,000 mg/kg  
Test substance: 1-Octadecanol  
(literature value)  
Rabbit; Oral; 14-day; OECD Test Guideline 414  
NOAEL (teratogen): 2,000 mg/kg  
NOAEL (maternal): 2,000 mg/kg  
Test substance: 1-eicosanol  
(literature value)  
Rabbit; Oral; 28-day;  
NOAEL (teratogen): 2,000 mg/kg  
NOAEL (maternal): 2,000 mg/kg  
Test substance: 1-docosanol  
(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.

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**STOT - repeated exposure** Rat; Oral; OECD Test Guideline 407  
NOAEL: 1,000 mg/kg  
Subacute toxicity

Rat; Oral; OECD Test Guideline 408  
NOAEL: 1,000 mg/kg  
Subchronic toxicity

Rat; Oral; 182-day; OECD Test Guideline 408  
NOAEL: 1,000 mg/kg  
(literature value)  
Based on available data, the classification criteria are not met.

**Aspiration toxicity** Not applicable

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

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## SECTION 12 ECOLOGICAL INFORMATION

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

**Toxicity to fish** LC50 (*Salmo gairdneri*) 96 hours; semi-static test; OECD Test Guideline 203  
Test substance: 1-Octadecanol  
In the range of water solubility not toxic under test conditions., (literature value)

LC50 (*Oncorhynchus mykiss* (rainbow trout)) 96 hours; semi-static test; OECD Test Guideline 203  
Test substance: 1-eicosanol  
In the range of water solubility not toxic under test conditions., (literature value)

LC50 (*Oncorhynchus mykiss* (rainbow trout)) 96 hours; semi-static test; OECD Test Guideline 203  
Test substance: 1-docosanol  
In the range of water solubility not toxic under test conditions., (literature value)

**Toxicity to aquatic invertebrates** LC50 (*Daphnia magna* (Water flea)) 48 hours; OECD Test Guideline 202  
Test substance: 1-Octadecanol  
In the range of water solubility not toxic under test conditions., (literature value)

LC50 (*Daphnia magna* (Water flea)) 48 hours; QSAR  
Test substance: 1-eicosanol  
In the range of water solubility not toxic under test conditions., (literature value)

LC50 (*Daphnia magna* (Water flea)) 48 hours; QSAR  
Test substance: 1-docosanol  
In the range of water solubility not toxic under test conditions., (literature value)

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**Toxicity to algae** (Desmodesmus subspicatus (green algae)) 96 hours; static test; OECD Test Guideline 201

Test substance: 1-Octadecanol

In the range of water solubility not toxic under test conditions., (literature value)

EC50

Test substance: 1-eicosanol

In the range of water solubility not toxic under test conditions., (literature value)

Test substance: 1-docosanol

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** No data available

**Biodegradation** Readily biodegradable.

OECD Test Guideline 301B (28 d): > 60 %

Test substance: 1-Octadecanol  
(literature value)

OECD Test Guideline 301B (28 d): > 60 %

Test substance: 1-eicosanol  
(literature value)

OECD Test Guideline 301B (28 d): > 60 %

Test substance: 1-docosanol  
(literature value)

**Bioaccumulative potential** Bioaccumulation is unlikely.

**Mobility in soil** No data available

**Other adverse effects** No data available

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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## NAFOL® 1822B Alcohol

**Waste Code** Any unused product or empty containers may be disposed of as non-hazardous in accordance with state and federal requirements. 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. If the resulting material is determined to be hazardous, please dispose in accordance with state and federal (40 CFR 262) hazardous waste regulations.

**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

### SECTION 15 REGULATORY INFORMATION

#### U.S. FEDERAL REGULATIONS

##### TSCA Inventory Listing

###### Components

	<u>CAS-No.</u>
1-Docosanol	661-19-8
1-Eicosanol	629-96-9
1-Octadecanol	112-92-5

##### 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

Non-hazardous substance

##### SARA 313 Chemical

###### Components

###### CAS-No.

###### Weight percent

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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**

none

**Reportable Quantity**

**Weight percent**

### INTERNATIONAL REGULATIONS

#### WHMIS Classification

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

#### European Union

The product does not need to be labelled in accordance with EC directives or respective national laws.

<b>Australia. Inventory of Chemical Substances (AICS)</b>	Listed
<b>Japan. Inventory of Existing and New Chemical Substances (ENCS)</b>	Listed
<b>Japan. ISHL - Inventory of Chemical Substances</b>	Listed
<b>Canada. Domestic Substances List (DSL) Inventory</b>	Listed
<b>Canada. Non-Domestic Substance Listing (NDSL)</b>	Not listed
<b>Philippines. Inventory of Chemicals / Chemical Substances (PICCS)</b>	Listed
<b>Korea. Existing Chemicals Inventory (KECI)</b>	Listed
<b>China. Inventory of Existing Chemical Substances (IECSC)</b>	Listed
<b>Mexico</b>	Not listed
<b>New Zealand. Inventory of Chemical Substances</b>	Listed
<b>Switzerland</b>	Listed
<b>Taiwan. National Existing Chemical Inventory (NECI)</b>	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.**

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**SECTION 16 OTHER INFORMATION**

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**HAZARD RATINGS**

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

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