

NONIDAC® 1618F

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

Trade name	NONIDAC® 1618F		
Synonyms	Alcohol and Ethoxylate Blend		
Use	Industrial use, Raw material for cosmetic agents, Emulsifier		
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
	MSDS 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

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

Additional advice This product may contain residual levels of alcohols which, even under normal handling conditions, may smell and irritate the eyes, nose, and throats of some individuals.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
1-Octadecanol	112-92-5	44 - 56
1-Hexadecanol	36653-82-4	17 - 24
Alcohols, C16-C18, ethoxylated	68439-49-6	18 - 22

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. 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.

NONIDAC® 1618F

SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion NFPA Class IIIB combustible liquid.

Suitable extinguishing media Water spray, Foam, Dry chemical, Carbon dioxide (CO₂)

Protective equipment and precautions for firefighters Wear self contained breathing apparatus for fire fighting if necessary.

Further information Keep containers and surroundings cool with water spray. Do not use a solid water stream as it may scatter and spread fire. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6 ACCIDENTAL RELEASE MEASURES

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.

SECTION 7 HANDLING AND STORAGE

Safe handling advice Take precautionary measures against static discharges.

Storage/Transport pressure Ambient

Load/Unload temperature 140 - 160 °F (For liquid product)
60 - 71 °C

Storage and handling materials Suitable: Carbon steel coated with baked phenolic. Any moisture may cause rusting of carbon steel. If product is moisture free, uncoated carbon steel tanks.

Further information on storage conditions When stored in the liquid form, ethoxylates should be padded with a dry inert gas, such as nitrogen, to prevent oxygen or air from entering the tank. Prolonged storage in the presence of air or oxygen may cause product degradation. Oxidation is not expected when stored under a nitrogen atmosphere. Inert gas blanket and breathing system needed to maintain color stability. Use dry inert gas having at least -40°C (-40°F) dew point.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Ensure adequate ventilation, especially in confined areas. Trace amounts of ethylene oxide may be present in the product and could accumulate in vapor spaces of storage or

NONIDAC® 1618F

transport vessels.

PERSONAL PROTECTIVE EQUIPMENT

Eyes Wear as appropriate: Goggles, Face-shield

Skin Full protective clothing, chemical boots, and chemical gloves. High standards of skin care and personal hygiene should be exercised at all times.

Inhalation Use respirator when performing operations involving potential exposure to vapour of the product. Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES

There are no exposure limits established for this product. Trace amounts of ethylene oxide may be present in this product., The ethylene oxide in this product is not expected to result in significant exposures or present a health hazard.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance solid; Colorless liquid when melted.;

Colour white

Form Pastilles, flakes, solid

Odour sweet pungent

Odour Threshold no data available

Flash point approximately 182 °C, 360 °F;

Flammability Upper explosion limit: no data available
Lower explosion limit: no data available

Boiling point/boiling range approximately < 287 °C, < 548 °F;

Melting point/range 49.5 - 53.5 °C, 121 - 128 °F;

Auto-ignition temperature estimated > 247 °C, > 477 °F;

Decomposition temperature no data available

Flammability (solid, gas) no data available

Vapour pressure < 0.15 hPa @ 20 °C, 68 °F;

Vapour density approximately 9 - 10

NONIDAC® 1618F

Density	approximately 0.847 g/cm ³ @ 60 °C, 140 °F;
Specific gravity	no data available
Water solubility	dispersible
Viscosity	approximately 10.67 cSt @ 60 °C, 140 °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	Reacts slowly with air or oxygen. Storage under heated conditions in the presence of air or oxygen increases reaction rate. For example, after storing at 95°F/35°C for 30 days in the presence of air, there is measureable oxidation of the ethoxylate. Lower temperatures will allow for longer storage time and higher temperatures will shorten the storage time if stored under an air or oxygen atmosphere.
Hazardous decomposition products	When storing this product in air or oxygen, decomposition may occur, generating vapors which could be irritating. Ensure adequate ventilation, especially in confined areas. Oxidation is not expected when stored under a nitrogen atmosphere.
Materials to avoid	Can react with strong oxidizers, inorganic acids, and halogens.
Hazardous polymerisation	None.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity	LD50 rabbit: > 2,000 mg/kg Test substance: 1-Hexadecanol
	LD50 rabbit: > 5,000 mg/kg Test substance: 1-Octadecanol
	LD50 rabbit: > 2,000 mg/kg Test substance: Alcohols, C16-18, ethoxylated (>=20 EO); (literature value)
Acute inhalation toxicity	LC50 rat (1 hours): > 1.5 mg/l Test substance: 1-Hexadecanol
	Test substance: 1-Octadecanol; LC50 value expected to exceed the saturated vapor

NONIDAC® 1618F

concentration in air.

Acute oral toxicity LD50 rat: > 2,000 mg/kg; OECD Test Guideline 401
Test substance: 1-Hexadecanol; (literature value)

LD50 rat: > 2,000 mg/kg; OECD Test Guideline 401
Test substance: 1-Octadecanol; (literature value)

LD50 rat: > 2,000 mg/kg
Test substance: Alcohols, C16-18, ethoxylated (>=20 EO)

Skin corrosion/irritation (rabbit): OECD Test Guideline 404
Test substance: 1-Hexadecanol
Not irritating, (literature value)

(rabbit): OECD Test Guideline 404
Test substance: 1-Octadecanol
Not irritating, (literature value)

(rabbit)
Test substance: Alcohols, C16-18, ethoxylated (>=20 EO)
Not irritating

Eye damage/irritation (rabbit): OECD Test Guideline 404
Test substance: 1-Hexadecanol
Not irritating, (literature value)

(rabbit): OECD Test Guideline 404
Test substance: 1-Octadecanol
Not irritating, (literature value)

(rabbit)
Test substance: Alcohols, C16-18, ethoxylated (>=20 EO)
Not irritating

Respiratory or skin sensitization guinea pig: not sensitizing; Maximisation Test
(literature value)

Germ cell mutagenicity **Genotoxicity in vitro:**
Result: In vitro tests did not show mutagenic effects.
Test substance: 1-Hexadecanol
(literature value)
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: Alcohols, C16-18, ethoxylated (>=20 EO)

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

NONIDAC® 1618F

Test substance: 1-Octadecanol
(literature value)
Result: In vivo tests did not show mutagenic effects
Test substance: Alcohols, C16-18, ethoxylated (≥ 20 EO)

Assessment Mutagenicity:

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

Reproductive toxicity**Reproductive toxicity:**

rat; Oral; 90-day;
NOAEL (parents): 2,000 mg/kg
Test substance: 1-Hexadecanol
rat; Oral; 55-day; OECD Test Guideline 422
NOAEL (parents): 2,000 mg/kg
NOAEL (F1): 2,000 mg/kg
Test substance: 1-Octadecanol
rat;
NOAEL (parents): > 250 mg/kg
NOAEL (F1): > 250 mg/kg
NOAEL (F2): > 250 mg/kg
Test substance: Alcohols, C16-18, ethoxylated (≥ 20 EO)
(literature value)

Assessment Reproductive toxicity:

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

Teratogenicity:

rat; Oral; OECD Test Guideline 422
NOAEL (teratogen): 2,000 mg/kg
NOAEL (maternal): 2,000 mg/kg
Test substance: 1-Hexadecanol
(literature value)
rat; Oral; OECD Test Guideline 422
NOAEL (teratogen): 2,000 mg/kg
NOAEL (maternal): 2,000 mg/kg
Test substance: 1-Octadecanol
(literature value)
rat; Oral;
NOAEL (teratogen): > 50 mg/kg
NOAEL (maternal): 50 mg/kg
Test substance: Alcohols, C16-18, ethoxylated (≥ 20 EO)
(literature value)
rat; Dermal;
NOAEL (teratogen): > 250 mg/kg
NOAEL (maternal): 250 mg/kg
Test substance: Alcohols, C16-18, ethoxylated (≥ 20 EO)
(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.

NONIDAC® 1618F

STOT - repeated exposure rat; Oral;
NOAEL: > 4,000 mg/kg
Test substance: 1-Hexadecanol; Subchronic toxicity
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

rat; Oral; OECD Test Guideline 407
NOAEL: 1,000 mg/kg
Test substance: 1-Octadecanol; Subacute toxicity
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

rat; Oral; Two-year;
NOAEL: 50 mg/kg
(literature value)
Target Organs: Heart, Kidney, Liver
Symptoms: reduced body weight gain, increased relative organ weights

Aspiration toxicity not applicable

Carcinogenicity **Assessment carcinogenicity:**
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SECTION 12 ECOLOGICAL INFORMATION

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

(Oncorhynchus mykiss (rainbow trout)) 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 (Cyprinus carpio (Carp)) 96 hours: > 1 - 10 mg/l; flow-through test; OECD Test Guideline 203
Test substance: Alcohols, C16-18, ethoxylated (>=20 EO)

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

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

EC50 (Daphnia magna (Water flea)) 48 hours: > 1 - 10 mg/l; static test; OECD Test Guideline 202

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

NONIDAC® 1618F

Test substance: 1-Hexadecanol

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

(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 (Desmodesmus subspicatus (green algae)) 72 hours: > 1 - 10 mg/l; static test; OECD Test Guideline 201

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-Hexadecanol
(literature value)

OECD Test Guideline 301B (28 d): > 60 %
Test substance: 1-Octadecanol
(literature value)

OECD Test Guideline 301B (28 d): > 60 %
Test substance: Alcohols, C16-18, ethoxylated (>=20 EO)

Bioaccumulation Does not bioaccumulate.

Mobility in soil no data available

Other adverse effects no data available

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. 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.

NONIDAC® 1618F

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****OSHA Hazards (HCS 1994)**

Eye irritant

TSCA Inventory Listing**Components**

1-Octadecanol

1-Hexadecanol

Alcohols, C16-C18, ethoxylated

CAS-No.

112-92-5

36653-82-4

68439-49-6

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

SARA 302: 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**

SARA 313: 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

NONIDAC® 1618F**INTERNATIONAL REGULATIONS****WHMIS Classification**

WHMIS hazardous composition: No ingredients are hazardous according to the CPR criteria.

European Union

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

Australia. Inventory of Chemical Substances (AICS)	Listed
Japan. Inventory of Existing and New Chemical Substances (ENCS)	Listed
Japan. Industrial Safety & Health Law (ISHL) Inventory	Listed
Canada. Domestic Substances List (DSL) Inventory	Listed
Canadian Non-Domestic Substance Listing (NDSL)	Not listed
European Inventory of Existing Commercial Chemical Substances (EINECS) Listing	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 Chemicals (NZIoC)	Listed
Switzerland. Inventory of Notified New Substances (CHINV)	Listed
Taiwan. National Existing Chemical Inventory (NECI)	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**

Ethylene Oxide

CAS-No.

75-21-8

Sasol Chemicals (USA) LLC's ethoxylates may contain detectable quantities of ethylene oxide which is a chemical on the California Proposition 65 list. The level is typically below 1.0 ppm, although it may vary. The manufacturing process is controlled to reduce the residual ethylene oxide content.

SECTION 16 OTHER INFORMATION

NONIDAC® 1618F

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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