



NAFOL 20+A Alcohol

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

Trade name NAFOL 20+A Alcohol
Synonyms Arachidyl Alcohol
Use Industrial use, Paper Chemical
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 Combustible dust

LABEL ELEMENTS

Hazard symbols None

Signal word Warning

Hazard statements May form combustible dust concentrations in air (during processing)

Precautionary statements

Prevention P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
Ensure all equipment is electrically grounded before beginning transfer operations.
Apply measures to prevent dust explosions.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
Alcohols, C16-18, distn. residues	68603-17-8	45 - 55
1-Octadecanol	112-92-5	15 - 22
1-Eicosanol	629-96-9	<6
1-Docosanol	661-19-8	15 - 22

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Alcohols, C18-22, distn. residues
Alcohols, C12-22, distn. residues

1160164-88-4
1476777-83-9

5 - 20
<20

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.

SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Dust may form explosive mixture in air.

Suitable extinguishing media Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide (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 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.

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SECTION 7 HANDLING AND STORAGE

Safe handling advice Ensure all equipment is electrically grounded before beginning transfer operations. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Storage/Transport pressure 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 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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance solid

Colour light yellow

Form Solid Pastilles

Odour sweet

Odour Threshold No data available

Flash point approximately 210 °C, 410 °F; DIN 51758;

Flammability Upper explosion limit: No data available

Lower explosion limit: No data available

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Boiling point/boiling range	> 350 °C, > 662 °F;
Melting point/range	54 - 58 °C, 129 - 136 °F;
Auto-ignition temperature	255 °C, 437 °F;
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	< 0.75 mm Hg @ 20 °C, 68 °F;
Vapour density	9.3 - 13.2
Density	approximately 0.8 g/cm ³ @ 80 °C, 176 °F;
Relative density	No data available
Water solubility	insoluble
Viscosity	No data available
Viscosity, dynamic	approximately 7 mPa.s @ 80 °C, 176 °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	Keep away from heat and sources of ignition.
Hazardous decomposition products	Combustion products include carbon dioxide, carbon monoxide and possibly other unidentified organic compounds.
Materials to avoid	Can react with strong oxidizers, inorganic acids, and halogens.

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Hazardous polymerisation None.

SECTION 11 TOXICOLOGICAL INFORMATION

Additional Remarks	Information given is based on data obtained from similar substances.
Acute dermal toxicity	LD50 Rabbit: > 10,000 mg/kg
Acute inhalation toxicity	Rat (6 hours) Test substance: ALFOL 20+ Alcohol Survived exposure to concentrated vapors.
Acute oral toxicity	LD50 Rat: > 10,000 mg/kg
Skin corrosion/irritation	Primary irritation (Rabbit): 0 (Max. score is 8.0.)
Serious eye damage/eye irritation	Primary irritation (Rabbit): 2 (Max. score is 110.)
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	Genotoxicity in vitro: No data available Genotoxicity in vivo: No data available Assessment Mutagenicity: No data available
Reproductive toxicity	Reproductive toxicity: No data available Assessment Reproductive toxicity: No data available Teratogenicity: No data available Assessment teratogenicity: No data available
STOT - single exposure	No data available
STOT - repeated	No data available

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exposure**Aspiration toxicity** No data available**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** LC50 (Oncorhynchus mykiss (rainbow trout)) 96 hours
Test substance: 1-Octadecanol
In the range of water solubility not toxic under test conditions.LC50 (Oncorhynchus mykiss (rainbow trout)) 96 hours
Test substance: 1-docosanol
In the range of water solubility not toxic under test conditions.**Toxicity to aquatic invertebrates** No data available**Toxicity to algae** ErL50 (Desmodesmus subspicatus (green algae)) 96 hours
Test substance: 1-Octadecanol
In the range of water solubility not toxic under test conditions.**Chronic toxicity to fish** No data available**Chronic toxicity to aquatic invertebrates** No data available**Biodegradation** Readily biodegradable.
OECD Test Guideline 301B (28 d): 96 %
Test substance: 1-Octadecanol
OECD Test Guideline 301B (28 d): 88 %
Test substance: 1-eicosanol
OECD Test Guideline 301B (28 d): 88 %
Test substance: 1-docosanol**Bioaccumulative potential** No data available**Mobility in soil** No data available**Other adverse effects** No data available



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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.
- 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**

Alcohols, C16-18, distn. residues
1-Octadecanol
1-Eicosanol
1-Docosanol
Alcohols, C18-22, distn. residues
Alcohols, C12-22, distn. residues

CAS-No.

68603-17-8
112-92-5
629-96-9
661-19-8
1160164-88-4
1476777-83-9

A component of this product is the subject of a SNUR (40CFR 721.10885) under TSCA.

SARA 302 Status

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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

Should this product meet EPCRA 311/312 Tier reporting criteria of 40 CFR 370, refer to Section 2 of this SDS for appropriate classification and Section 3 for components that meet the hazardous classification.

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**

Combustible dust

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)

Not listed

Inventory listing is pending further review.

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

Not listed

Japan. ISHL - Inventory of Chemical Substances

Not listed

Inventory listing is pending further review.

Canada. Domestic Substances List (DSL) Inventory

Listed

Canada. Non-Domestic Substance Listing (NDSL)

Not listed

Philippines. Inventory of Chemicals / Chemical Substances (PICCS)

Not listed

Inventory listing is pending further review.

Korea. Existing Chemicals Inventory (KECI)

Listed

China. Inventory of Existing Chemical Substances (IECSC)

Not listed

Inventory listing is pending further review.

Mexico. National Inventory of Chemical Substances (INSQ)

Not listed

Inventory listing is pending further review.

New Zealand. Inventory of Chemical Substances (NZIoC)

Not listed

Inventory listing is pending further review.

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Switzerland. Inventory of Notified New Substances (CHINV)

Not listed

Inventory listing is pending further review.

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**

none

CAS-No.

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
HMIS®	1	2	0
NFPA	1	2	0

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