



J&A Chemical Solutions

SAFETY DATA SHEET CETYL ALCOHOL

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

Trade name NACOL 16-98 Alcohol
Synonyms Cetyl Alcohol
Use Raw material for cosmetic agents, Industrial use, Raw material for textile auxiliary agents
Company J&A Chemical Solutions S.A. de C.V.

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Emergency Number : SETIQ: 01-800-002-1400

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-Hexadecanol	36653-82-4	>=98
1-Tetradecanol	112-72-1	<=1
1-Octadecanol	112-92-5	<=1

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.



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- 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** NFPA Class IIIB combustible liquid.
- 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.

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** 60 - 71 °C
140 - 160 °F



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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	solid Colorless liquid when melted.
Colour	colourless
Form	Solid Pastilles
Odour	odourless
Odour Threshold	No data available
Flash point	150 - 155 °C, 302 - 311 °F; DIN 51758;
Flammability	Upper explosion limit: Not applicable Lower explosion limit: Not applicable
Boiling point/boiling range	approximately 300 - 320 °C, 572 - 608 °F;
Melting point/range	approximately 45 - 54 °C, 113 - 129 °F;
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
Flammability (solid, gas)	No data available



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Vapour pressure	< 1,000 hPa @ 20 °C, 68 °F;
Vapour density	approximately 7 - 8
Density	approximately 0.8 g/cm ³ @ 60 °C, 140 °F;
Relative density	No data available
Water solubility	insoluble
Viscosity	No data available
Viscosity, dynamic	approximately 8.0 mPa.s @ 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	Keep away from heat and sources of ignition.
Hazardous decomposition products	None.
Materials to avoid	Can react with strong oxidizers, inorganic acids, and halogens.
Hazardous polymerisation	None.

SECTION 11 TOXICOLOGICAL INFORMATION

Additional Remarks	The product itself has not been tested.
Acute dermal toxicity	LD50 Rabbit: > 2,000 mg/kg
Acute inhalation toxicity	LC50 Rat (1 hours): > 1.5 mg/l
Acute oral toxicity	LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 401 (literature value)



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Skin corrosion/irritation (Rabbit): OECD Test Guideline 404 Not irritating

(literature value)

Serious eye damage/eye irritation (Rabbit): OECD Test Guideline 404 Not irritating

(literature value)

Respiratory or skin sensitisation Guinea pig: not sensitizing; Maximisation Test (literature value)

Germ cell mutagenicity **Genotoxicity in vitro:**

In vitro tests did not show mutagenic effects

Genotoxicity in vivo:

In vivo tests did not show mutagenic effects

Assessment Mutagenicity:

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

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

STOT - repeated exposure Rat; Oral; NOAEL: > 4,000 mg/kg (literature value)

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

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



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Carcinogenicity Assessment carcinogenicity:

Contains no ingredient listed as a carcinogen

SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity In the range of water solubility not toxic under test conditions.

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

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

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

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. DONOT 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

1-Hexadecanol

CAS-No.

36653-82-4

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.



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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

Not a hazardous 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.

Australia. Inventory of Chemical Substances (AICS)	Listed
Japan. Inventory of Existing and New Chemical Substances (ENCS)	Listed
Japan. ISHL - Inventory of Chemical Substances	Listed
Canada. Domestic Substances List (DSL) Inventory	Listed
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)	Listed
New Zealand. Inventory of Chemical Substances (NZIoC)	Listed
Switzerland. Inventory of Notified New Substances (CHINV)	Listed



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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.

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