

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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Number

SECTION 2 HAZARDS IDENTIFICATION

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

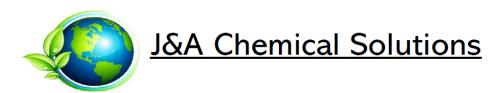
SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight percent
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.



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 Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO2).

extinguishing media

Protective equipment

and precautions for firefighters

nutions for surroundings coo

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

Spill precautions

Evacuate personnel to safe areas. Remove all sources of ignition. Contain spillage, andthen 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.

cleaning up

Material can create slippery conditions.

SECTION 7 HANDLING AND STORAGE

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

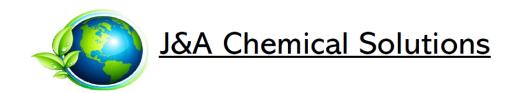
Storage/Transport Ambient

pressure

Load/Unload temperature

60 - 71 °C

140 - 160 °F



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 conditionscause

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 approximately 300 - 320 °C, 572 - 608 °F;

range

Melting point/range approximately 45 - 54 °C, 113 - 129 °F;

Auto-ignition Not applicable

temperature

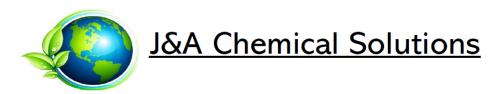
Decomposition No data available

No data available

temperature

Flammability (solid,

gas)



Vapour pressure < 1,000 hPa @ 20 °C, 68 °F;

Vapour density approximately 7 - 8

Density approximately 0.8 g/cm3 @ 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: No data available

n-

octanol/water

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

Materials to avoid Can react with strong oxidizers, inorganic acids, and halogens.

Hazardous polymerisation

None.

None.

SECTION 11 TOXICOLOGICAL INFORMATION

Additional Remarks The product itself has not been tested.

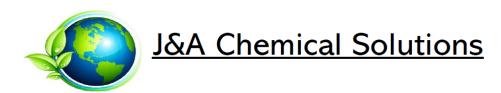
Acute dermal toxicity LD50 Rabbit: > 2,000 mg/kg

Acute inhalation LC50 Rat (1 hours): > 1.5 mg/l

toxicity

Acute oral toxicity LD50 Rat: > 2,000 mg/kg; OECD Test Guideline 401

(literature value)



Skin (Rabbit): OECD Test Guideline 404Not

corrosion/irritation irritating

(literature value)

Serious eye

(Rabbit): OECD Test Guideline 404Not

damage/eye irritation irritating

(literature value)

Respiratory or skin Guinea pig: not sensitizing; Maximisation Test

sensitisation (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 The substance or mixture is not classified as specific target organ toxicant, single

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

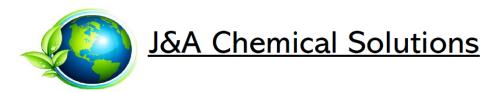
exposure exposure.

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

exposure value)

140)

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



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 Guideline201

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

(literature value)

Chronic toxicity to No data available

fish

Chronic toxicity to aquatic invertebrates

No data available

Biodegradation Readily biodegradable.

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

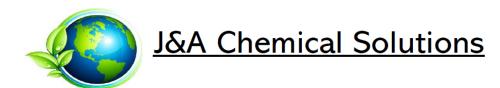
(literature value)

Bioaccumulative No data available

potential

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.

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 regulatedIMDG 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

<u>CAS-No.</u>

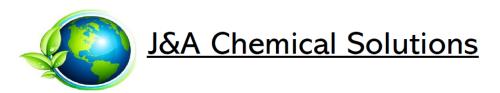
1-Hexadecanol 36653-82-4

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.



SARA 311/312 Classification

Should this product meet EPCRA 311/312 Tier reporting criteria of 40 CFR 370, refer to Section 2 of this SDSfor 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)

Australia. Inventory of Chemical Substances (AICS)

<u>Components</u> <u>Reportable Quantity</u> <u>Weight percent</u>

Listed

none

INTERNATIONAL REGULATIONS

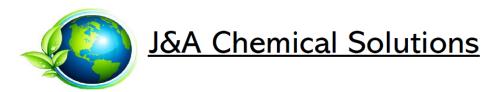
WHMIS Classification

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.

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



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

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