

Safety Data Sheet

STEARYL ALCOHOL

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

Product name : STEARYL

ALCOHOL

Recommended use of the chemical and restrictions on use

Recommended use : Industrial use, Oilfield,

Personal care, Pharmaceutical

Manufacturer or supplier's details

Company : J&A Chemical Solutions S.A. de

C.V.

Address Av. Paseo de los Laureles No. 458.

Torre A PH 1 Col. Bosques de las

Lomas, CDMX 05120 Tel: (+52) 55-41-40-57-15

Emergency telephone number: SETIQ 01800 00214 00

SECTION 2 HAZARDS IDENTIFICATION

OSHA/GHS Combustible dust

Hazards

LABEL ELEMENTS

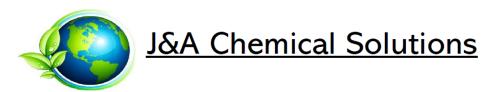
Hazard symbols None
Signal word Warning

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 | <u>CAS-No.</u> | Weight percent |
|---------------|----------------|----------------|
| 1-Octadecanol | 112-92-5 | >90 |
| 1-Eicosanol | 629-96-9 | <1 |
| 1-Hexadecanol | 36653-82-4 | <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.

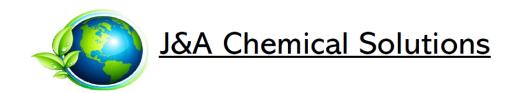
Suitable Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO2).

extinguishing media

Protective equipment Wear self-contained breathing apparatus and protective suit. Keep containers and

and precautions for surroundings cool with water spray.

firefighters



SECTION 6 ACCIDENTAL RELEASE MEASURES

Methods and Evacuate personnel to safe areas. Remove all sources of ignition. Contain spillage, and materials for then collect with non-combustible absorbent material. (e.g. sand. earth, diatomaceous

materials for then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous containment and 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

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 Ambient

pressure

Load/Unload 71 - 82 °C

160 - 180 °F

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

temperature

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

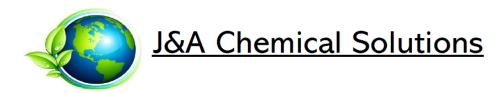
Contains no substances with occupational exposure limit values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance solid

Colour white

Form solid molten liquid



Odour sweet

Odour Threshold No data available

Flash point 194 - 196 °C, 379 - 385 °F; ASTM D 93;

Flammability Upper explosion limit: approximately 5.0 %(V)

Lower explosion limit: approximately 0.4 %(V)

Boiling point/boiling 350 - 354 °C, 662 - 670 °F;

range

Melting point/range 47 - 58 °C, 117 - 136 °F;

Auto-ignition 249 - 269 °C, 480 - 516 °F;

temperature

Decomposition temperature

No data available

Flammability

No data available

(solid,

gas)

Vapour pressure < 0.01 mm Hg @ 22 °C, 72 °F;

Vapour density 9.3

Density 0.811 g/cm3 @ 22 °C, 72 °F;

Relative density No data available

Water solubility insoluble

Viscosity 13.5 cSt @ 70 °C, 158 °F;

pH No data available

Evaporation rate No data available

Partition coefficient: log Pow: 7.19;

n

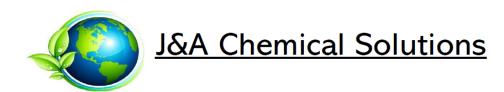
octanol/water

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 Combustion products include carbon dioxide, carbon monoxide and possibly other

decomposition unidentified organic compounds.

products

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

Hazardous polymerisation

None.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity Rabbit: > 5,000 mg/kg

Test substance: 1-Tetradecanol

The data are derived from the evaluations or test results achieved with similar products

(conclusion by analogy).

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

Symptoms: Erythema Emaciation Weakness

Acute inhalation No data available

toxicity

Acute oral toxicity LD50 Rat: > 5,000 mg/kg; OECD Test Guideline 401

(literature value)

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

Skin (Rabbit): OECD Test Guideline 404

corrosion/irritation Not irritating

(literature value)

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

(Human) Not irritating

Serious eye (Rabbit): OECD Test Guideline 405

damage/eye irritation Not irritating

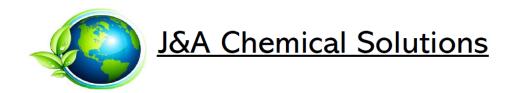
(literature value)

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

Respiratory or skin Guinea pig: not sensitizing; Maximisation

sensitisation Test(literature value)

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



Germ cell mutagenicity Genotoxicity in vitro:

> In vitro tests did not show mutagenic effects(literature value)

Category approach

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:

Rat; Oral; 55-day; OECD Test Guideline 422

No toxicity to reproduction

(literature value)

Assessment Reproductive toxicity:

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

Teratogenicity:

Rat; Oral; OECD Test Guideline 422

Did not show teratogenic effects in animal

experiments(literature value)

Assessment teratogenicity:

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

STOT - single The substance or mixture is not classified as specific target organ toxicant, single

exposure. exposure

STOT - repeated Rat; Oral; 90-day; NOAEL: 4,400 mg/kgTest

> substance: 1-Hexadecanol exposure

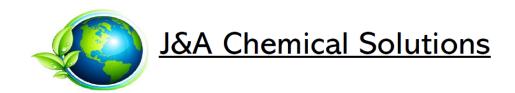
> > The data are derived from the evaluations or test results achieved with similar products

(conclusion by analogy).

The substance or mixture is not classified as specific target organ toxicant, repeated

exposure.

Aspiration toxicity Not applicable



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; semi-static

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

(literature value)

Toxicity to aquatic

EC50 (Daphnia magna (Water flea)) 48 hours

invertebrates

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

Toxicity to algae ErL50 (Desmodesmus subspicatus (green algae)) 96 hours; OECD Test Guideline 201In

the range of water solubility not toxic under test conditions.

(literature value)

Chronic toxicity to No data available

fish

Chronic toxicity to

NOEC (Daphnia magna (Water flea)) 21 d

aquatic

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

invertebrates

(literature value)

Biodegradation Readily biodegradable.

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

(literature value)

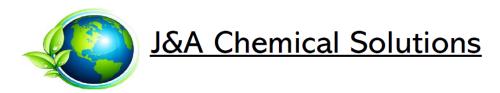
Bioaccumulative No data available

potential

Mobility in soil No data available

effects

Other adverse 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 in solid form; however, if shipped in molten form above 100 °C, use the following description: UN3257, Elevated temperature liquid, n.o.s. (Octadecanol), 9, PG

IATA Not regulated in solid form; however, if product is in molten form and above 100 °C thenit is forbidden for air transportation.

IMDG Not regulated in solid form; however, if shipped in molten form above 100 °C, use the following description: UN3257, Elevated temperature liquid, n.o.s. (Octadecanol), 9, PG

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

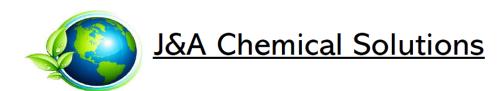
Remarks No data available

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Inventory Listing

Components
1-Octadecanol
112-92-5



1-Eicosanol 629-96-9

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 SDS for appropriate classification and Section 3 for components that meet the hazardous classification.

SARA 313 Chemical

<u>Components</u> <u>CAS-No.</u> <u>Weight percent</u>

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)

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

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)

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)

Not listed

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

| | | | Physical Hazard/ |
|-----------|---------------|---------------------|--------------------|
| | <u>Health</u> | <u>Flammability</u> | <u>Instability</u> |
| HMIS ® | 1 | 3 | 0 |
| NFPA | 1 | 3 | 0 |

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