

# SAFETY DATA SHEET

#### 1. Identification

**Product identifier Capric Alcohol** 

Other means of identification

Catalog number 1091028 Chemical name Decan-1-ol

Synonym(s) 1-Decanol \* n-Decanol

Recommended use Specified quality tests and assay use only.

**Recommended restrictions** Not for use as a drug. Not for administration to humans or animals.

Manufacturer/Importer/Supplier/Distributor information

Company name U. S. Pharmacopeia **Address** 12601 Twinbrook Parkway

> Rockville MD 20852-1790 US

**Telephone RS Technical Services** 301-816-8129

Website www.usp.org E-mail RSTECH@usp.org

CHEMTREC within US & **Emergency phone number** 

Canada

CHEMTREC outside US & +1 703-527-3887

Canada

2. Hazard(s) identification

Physical hazards Flammable liquids Category 4 **Health hazards** Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A

Aspiration hazard Category 1

1-800-424-9300

OSHA hazard(s) Not classified.

Label elements



Signal word Danger

**Hazard statement** Combustible liquid. May be fatal if swallowed and enters airways. Causes skin irritation. Causes

serious eve irritation.

**Precautionary statement** 

Prevention Keep away from flames and hot surfaces-No smoking. Wash thoroughly after handling. Wear

protective gloves/eye protection/face protection.

Do NOT induce vomiting. If swallowed: Immediately call a poison center/doctor/medical Response

professional. If on skin: Wash with plenty of water/soap. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use suitable media

for extinction.

**Storage** Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Not classified.

Hazardous to the aquatic environment, Category 1 **Environmental hazards** 

acute hazard

Supplemental information

**Hazard statement** Very toxic to aquatic life.

Material name: Capric Alcohol

USP SDS US

**Precautionary statement** 

**Prevention** Avoid release to the environment.

Response Collect spillage.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3. Composition/information on ingredients

**Substance** 

**Hazardous components** 

Chemical name	Common name and synonyms	CAS number	%
Capric Alcohol	1-Decanol	112-30-1	100
	n-Decanol		

#### 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Remove contaminated clothing. Wash off with soap and plenty of water. If skin irritation occurs:

Get medical advice/attention.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration

may cause pulmonary edema and pneumonitis. Irritation of eyes, skin, and mucous membranes.

**Most important** 

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically.

Administer activated charcoal as a slurry.

Maintain an adequate airway with assisted respiration and oxygen, as needed.

Dilute with water or milk.

For seizures, administer intravenous diazepam or lorazepam.

General information Remove from exposure. Remove contaminated clothing. For treatment ad

Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic)

reactions must receive immediate medical attention.

### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

No unusual fire or explosion hazards noted.

Special protective equipment

Wear suitable protective equipment.

and precautions for firefighters Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of vapors. Wear appropriate personal protective equipment.

Methods and materials for containment and cleaning up

Remove sources of ignition. Absorb spillage with suitable absorbent material. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

### 7. Handling and storage

Precautions for safe handling

As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly.

Conditions for safe storage, including any incompatibilities

Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

Material name: Capric Alcohol USP SDS US

### 8. Exposure controls/personal protection

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** No exposure standards allocated.

Appropriate engineering

controls

Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials. Local exhaust ventilation such as a laboratory fume hood or other vented enclosure is recommended, particularly for aerosol-generating procedures.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses with sideshields are recommended. Face shields or goggles may be required if

splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.

Skin protection

Respiratory protection

**Hand protection** Chemically compatible gloves. For handling solutions, ensure that the glove material is protective

against the solvent being used. Use handling practices that minimize direct hand contact.

Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex

gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.

Other For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.

Where respirators are deemed necessary to reduce or control occupational exposures, use

NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29 CFR 1910.134).

Thermal hazards Not available.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical and chemical properties

**Appearance** Clear colorless or pale yellow slightly viscous liquid.

Physical state Liquid. **Form** Liquid.

Odor Pungent odor. Sweet, floral odor.

Odor threshold Not available. Not available. Melting point/freezing point 43.5 °F (6.4 °C)

Initial boiling point and boiling

range

Flash point

230.00 °F (110.00 °C) Open Cup

179.96 °F (82.20 °C) Tag Closed Cup

451.22 °F (232.9 °C) 101.325 kPa

**Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

0.7 Explosive limit - lower (%) Explosive limit - upper (%)

Vapor pressure 0.001135 kPa at 25 °C

5.46 Vapor density

Relative density Not available.

Solubility in water Very slightly soluble. 550.4 °F (288 °C) **Auto-ignition temperature Viscosity** Not available.

Other information

**Chemical family** Alcohols.

0.83 g/cm3 at 22 °C **Density** Dynamic viscosity 13.8 - 14.1 mPa.s 68 °F (20 °C) Dynamic viscosity

temperature

Material name: Capric Alcohol USP SDS US Molecular formula C10-H22-O
Molecular weight 158.28 g/mol
Percent volatile 100 %

Solubility (other) Soluble in carbon tetrachloride, in glacial acetic acid, in methanol, and in acetone; miscible with

ethanol, with ether, with benzene, and with chloroform.

Specific gravity 0.825 - 0.831 at 25 °C

**VOC (Weight %)** 100 %

# 10. Stability and reactivity

**Reactivity** No reactivity hazards known.

Chemical stability Risk of ignition.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat, flames, and sparks.

**Incompatible materials** Strong oxidizing agents. Strong reducing agents. Organic acids. Acid anhydrides. Acid chlorides.

Hazardous decomposition

products

Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

# 11. Toxicological information

#### Information on likely routes of exposure

IngestionMay be fatal if swallowed and enters airways.InhalationMay be fatal if swallowed and enters airways.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye irritation.

Symptoms related to the physical, chemical, and toxicological characteristics

Dizziness. Headache. Nausea. Vomiting. Diarrhea.

Delayed and immediate effects

of exposure

Central nervous system depression.

**Acute toxicity** May be fatal if swallowed and enters airways.

Product Species Test Results

Capric Alcohol (CAS 112-30-1)

Acute Dermal

LD50 Rabbit

3560 mg/kg

Inhalation

LC50 Mouse

4 mg/l, 2 Hours

Rat

> 2.05 mg/l, 4 Hours

Oral

LD50 Mouse

6500 mg/kg

Rat 4720 mg/kg

**Skin corrosion/irritation** Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

#### Local effects

75 mg/day Skin irritancy test, administered for 3 consecutive

days

Result: Irritating. Species: Human

Eye irritancy test, administered neat.

Result: Irritant. Species: Rabbit

Eye irritancy test, administered neat; not washed.

Result: Moderately irritating.

Species: Rabbit

Skin irritancy test, semiocclusive. administered undiluted.

Result: Irritating.
Species: Rabbit
Test Duration: 4 Hours
Severity: PDII=3.3

Material name: Capric Alcohol USP SDS US

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Local effects

Skin irritancy test, semiocclusive; administered undiluted.

Result: Moderately irritating.

Species: Rabbit Test Duration: 4 Hours Severity: PDII=2.8

**Respiratory sensitization** Due to lack of data the classification is not possible.

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

Sensitization

Buehler test

Result: Not sensitizing. Species: Guinea pig Kligman maximization test Result: Not sensitizing. Species: Human

**Germ cell mutagenicity** Due to lack of data the classification is not possible.

Data from germ cell mutagenicity tests were not found.

Mutagenicity

Ames test in S. typhimurium

Result: Negative.

Chinese hamster V-79 HPRT test

Result: Negative.

Mutagenicity test in E. coli
Result: Negative.

Carcinogenicity Due to lack of data the classification is not possible. This material is not considered to be a

carcinogen by IARC, NTP, or OSHA.

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

Reproductivity

0 - 1000 mg/kg/day Reproductivity and development study,

administered orally during gestation.

Result: No effects on dams or on offspring.

Species: Rat

0.1 mg/l Reproductivity and development study, administered

by inhalation during gestation.

Result: No maternal toxicity, fetotoxicity, or teratogenicity

noted. Species: Rat

Specific target organ toxicity - Based on available data, the classification criteria are not met.

single exposure

**Specific target organ toxicity -** Based on available data, the classification criteria are not met.

repeated exposure

**Aspiration hazard** May be fatal if swallowed and enters airways.

0.2 ml Aspiration test

Result: Death from pulmonary edema.

Species: Rat

12. Ecological information

**Ecotoxicity** Very toxic to aquatic life.

Product Species Test Results

Capric Alcohol (CAS 112-30-1)

**Aquatic** 

Fish LC50 Carp (Leuciscus idus melanotus) 0.6 mg/l, 48 hours

Fathead minnow (Pimephales promelas) 2.2 - 2.5 mg/l, 96 hours

Acute

Crustacea EC50 Water flea (Daphnia magna) 3 mg/l, 48 hours

Persistence and degradability Readily biodegradable.

Bioaccumulative potentialNot available.Mobility in soilNot available.Other adverse effectsNot available.

13. Disposal considerations

**Disposal instructions**Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Not available.

Material name: Capric Alcohol

USP SDS US

Hazardous waste code

Not available.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport information

DOT

**UN** number UN3082

**UN proper shipping name** Transport hazard class(es) Environmentally hazardous substance, liquid, n.o.s. (Capric Alcohol)

Subsidiary class(es)

Not available. Ш

Packing group

**UN number** 

IATA

UN3082

**UN proper shipping name** Transport hazard class(es) Subsidiary class(es)

Environmentally hazardous substance, liquid, n.o.s. (Capric Alcohol)

Ш

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

**Packaging group** 

No information available.

the IBC Code



# 15. Regulatory information

**US federal regulations** CERCLA/SARA Hazardous Substances - Not applicable.

All components are on the U.S. EPA TSCA Inventory List.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

> Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

**SARA 302 Extremely** 

No

hazardous substance

Nο

SARA 311/312 Hazardous chemical

Other federal regulations

Safe Drinking Water Act

(SDWA)

**Food and Drug** 

Not regulated. Not regulated.

Administration (FDA)

**US** state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories** 

Country(s) or region Inventory name On inventory (yes/no)\* Australia Australian Inventory of Chemical Substances (AICS) Yes Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) No China Inventory of Existing Chemical Substances in China (IECSC) Yes

Material name: Capric Alcohol USP SDS US Country(s) or region Inventory name On inventory (yes/no)\* European Inventory of Existing Commercial Chemical Europe Substances (EINECS) Europe European List of Notified Chemical Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances (ENCS) Yes Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

Philippine Inventory of Chemicals and Chemical Substances

## 16. Other information, including date of preparation or last revision

**Issue date** 01-10-2014

Version # 01

Philippines

Further information Not available.

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AND FITNESS FOR A PARTICULAR PURPOSE is made with respect to the information

contained herein.

Material name: Capric Alcohol usp sps us

Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)