

# **SAFETY DATA SHEET**

Creation Date 22-Sep-2009 Revision Date 23-Jul-2021 Revision Number 3

1. Identification

Product Name 1-Heptanol

Cat No.: A12793

CAS No 111-70-6 Synonyms Heptyl alcohol

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

# Details of the supplier of the safety data sheet

### Company

Alfa Aesar

Thermo Fisher Scientific Chemicals, Inc.

30 Bond Street

Ward Hill, MA 01835-8099

Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com

www.alfa.com

#### **Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.

After normal business hours, call Carechem 24 at (866) 928-0789.

# 2. Hazard(s) identification

# Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Category 4
Serious Eye Damage/Eye Irritation Category 2

#### **Label Elements**

### Signal Word

Warning

### **Hazard Statements**

Combustible liquid

Causes serious eye irritation



## **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling Keep away from heat/sparks/open flames/hot surfaces. - No smoking Wear protective gloves/protective clothing/eye protection/face protection

Even

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

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store in a well-ventilated place. Keep cool

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

| Component        | CAS No   | Weight % |  |  |
|------------------|----------|----------|--|--|
| n-Heptyl alcohol | 111-70-6 | >95      |  |  |

## 4. First-aid measures

**General Advice** If symptoms persist, call a physician.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

**Inhalation** Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and

effects

**Notes to Physician** 

None reasonably foreseeable. Difficulty in breathing. . Symptoms of overexposure may be

headache, dizziness, tiredness, nausea and vomiting

Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may

be used to cool closed containers.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire

Flash Point 73 °C / 163.4 °F

**Method** - No information available

Autoignition Temperature 350 °C / 662 °F

**Explosion Limits** 

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

#### Specific Hazards Arising from the Chemical

Combustible material. Containers may explode when heated. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

#### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO2).

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA** 

Health Flammability Instability Physical hazards 2 0 N/A

#### 6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Remove all

sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions Should not be released into the environment. Do not flush into surface water or sanitary

sewer system. See Section 12 for additional Ecological Information.

**Methods for Containment and Clean** Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. **Up**Remove all sources of ignition. Take precautionary measures against static discharges.

### 7. Handling and storage

Handling

Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use spark-proof

tools and explosion-proof equipment. Take precautionary measures against static

discharges.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks and flame.

### 8. Exposure controls / personal protection

<u>Exposure Guidelines</u> This product does not contain any hazardous materials with occupational exposure

limitsestablished by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location. Use explosion-proof

electrical/ventilating/lighting/equipment.

**Personal Protective Equipment** 

**Eye/face Protection** Tight sealing safety goggles. Face protection shield.

**Skin and body protection**Wear appropriate protective gloves and clothing to prevent skin exposure.

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Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Physical StateLiquidAppearanceClearOdorSlight

Odor Threshold<br/>pHNo information available<br/>No information available

Melting Point/Range -35 °C / -31 °F

Boiling Point/Range 176 °C / 348.8 °F @ 760 mmHg

Flash Point 73 °C / 163.4 °F Evaporation Rate No information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor Pressure0.5 mbar @ 20 °CVapor Pensity3.9

Vapor Density 3.9 Specific Gravity 0.822

SolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo data availableAutoignition Temperature350 °C / 662 °FDecomposition TemperatureNo information availableViscosityNo information available

Molecular Formula C7 H16 O
Molecular Weight 116.2

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat. Keep away from open flames, hot surfaces and

sources of ignition.

Incompatible Materials Strong oxidizing agents, Strong acids, Acid anhydrides, Acid chlorides

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

# 11. Toxicological information

**Acute Toxicity** 

### **Product Information**

**Component Information** 

| Component LD50 Oral |                  | LD50 Dermal         | LC50 Inhalation        |            |  |
|---------------------|------------------|---------------------|------------------------|------------|--|
|                     | n-Heptyl alcohol | >5000 mg/kg ( Rat ) | >5000 mg/kg ( Rabbit ) | Not listed |  |

Toxicologically Synergistic No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Irritation** Irritating to eyes

Sensitization No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component        | CAS No   | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |  |
|------------------|----------|------------|------------|------------|------------|------------|--|
| n-Heptyl alcohol | 111-70-6 | Not listed |  |

Mutagenic Effects No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

**STOT - single exposure**STOT - repeated exposure
None known

Aspiration hazard No information available

Symptoms / effects,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

delayed

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for

complete information.

# 12. Ecological information

#### **Ecotoxicity**

Do not empty into drains. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment.

| Component        | Freshwater Algae | Freshwater Fish                                    | Microtox   | Water Flea |
|------------------|------------------|--|------------|------------|
| n-Heptyl alcohol | Not listed       | LC50: 33.1 - 36 mg/L, 96h flow-through (Pimephales | Not listed | Not listed |
|                  |                  | promelas)  |            |            |

Persistence and Degradability based on information available. May persist

**Bioaccumulation/ Accumulation**No information available.

Mobility . Will likely be mobile in the environment due to its water solubility. Is not likely mobile in the

environment due its low water solubility.

| Component        | log Pow |  |  |  |
|------------------|---------|--|--|--|
| n-Heptyl alcohol | 2.72    |  |  |  |

## 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT

COMBUSTIBLE LIQUID, NOT REGULATED FOR TRANSPORT IN THIS QUANTITY According to 49 CRF §173.150(f)(1), this material should reclassified as NA1993,

Combustible Liquid, NOS if it is shipped in bulk.

UN-No NA1993

Proper Shipping Name Combustible liquid, n.o.s.

Packing Group III

TDG Not regulated Not regulated Not regulated Not regulated Not regulated Not regulated

# 15. Regulatory information

#### United States of America Inventory

| Component        | CAS No   | TSCA | TSCA Inventory notification -<br>Active/Inactive | TSCA - EPA Regulatory Flags |
|------------------|----------|------|--|-----------------------------|
| n-Heptyl alcohol | 111-70-6 | X    | ACTIVE   | -                           |

#### Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### **International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component        | CAS No   | DSL | NDSL | EINECS    | PICCS | ENCS | ISHL | AICS | IECSC | KECL     |
|------------------|----------|-----|------|-----------|-------|------|------|------|-------|----------|
| n-Heptyl alcohol | 111-70-6 | Х   | -    | 203-897-9 | X     | X    | Х    | Х    | Х     | KE-18302 |

## U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know

Regulations

Not applicable

#### **U.S.** Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

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Mexico - Grade Moderate risk, Grade 2

16. Other information

Prepared By Health, Safety and Environmental Department

Email: tech@alfa.com

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#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**