

## SAFETY DATA SHEET

Creation Date 31-Aug-2010 Revision Date 19-Dec-2025 Revision Number 6

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

## 1. Identification

Product Name Hexyl alcohol

Cat No.: AC433860000, AC433860010, AC433861000

CAS No 111-27-3 Synonyms 1-Hexanol

**Recommended Use** Laboratory chemicals.

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

### Details of the supplier of the safety data sheet

Company

Fisher Scientific Company
One Reagent Lane
Fair Lawn, NJ 07410

Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

Fair Lawn, NJ 07410

Tel: (201) 796-7100

## **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

## Classification

This chemical is considered hazardous according to [US] OSHA (29 CFR 1910.1200, 2024)

Flammable liquids

Acute oral toxicity

Category 4

Acute dermal toxicity

Category 4

Serious Eye Damage/Eye Irritation

Category 2

#### Label Elements

## Signal Word

Warning

## **Hazard Statements**

Flammable liquid and vapor Causes serious eye irritation

Harmful if swallowed or in contact with skin



### **Precautionary Statements**

#### Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Keep container tightly closed

Ground and bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

Wear protective gloves/protective clothing/eye protection/face protection

Do not eat, drink or smoke when using this product

Wash face, hands and any exposed skin thoroughly after handling

Take action to prevent static discharges

Use non-sparking tools

#### Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor if you feel unwell

Take off contaminated clothing

#### Eyes

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

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

#### Fire

In case of fire: Use CO2, dry chemical, or foam to extinguish

Evacuate area

Fight fire with normal precautions from a reasonable distance

#### Storage

Store in a well-ventilated place. Keep cool

Store locked up

#### **Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

None identified

## Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available

## 3. Composition/information on Ingredients

Component	CAS No	Weight %
n-Hexanol	111-27-3	>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. Do not use mouth-to-mouth

method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get

medical attention.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and

effects

Notes to Physician

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 No information available

**Flash Point** 59 °C / 138.2 °F

Method - DIN 51758

Autoignition Temperature 292 °C / 557.6 °F

**Explosion Limits** 

Upper 7.7 vol %
Lower 1.2 vol %
Oxidizing Properties Not oxidising

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources 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** 

HealthFlammabilityInstabilityPhysical hazards220N/A

## 6. Accidental release measures

Personal Precautions Use personal protective equipment as required. Remove all sources of ignition. Take

precautionary measures against static discharges. Do not get in eyes, on skin, or on

clothing.

**Environmental Precautions**Avoid release to the environment. See Section 12 for additional Ecological Information.

Methods for Containment and Clean Remove all sources of ignition. Soak up with inert absorbent material. Keep in suitable,

**Up** closed containers for disposal. Use spark-proof tools and explosion-proof equipment.

## 7. Handling and Storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Use

spark-proof tools and explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Do not get in eyes, on skin, or on clothing. Do not breathe mist/vapors/spray. Do not ingest.

If swallowed then seek immediate medical assistance.

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

heat, sparks and flame. Flammables area. Incompatible Materials. Strong oxidizing

agents. Strong acids.

## 8. Exposure controls / personal protection

Exposure Guidelines 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. Use explosion-proof

electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers

are close to the workstation location.

Personal Protective Equipment

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166. Tight sealing safety goggles. Face protection shield.

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

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.

**Recommended Filter type:** Organic gases and vapours filter. Type A. Brown. conforming to EN14387.

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

## 9. Physical and chemical properties

Appearance

Physical State
Color
Color
Odor
Odor Threshold
Property
Liquid
Colorless
sweet
10 ppm
Values

Melting Point/Range -52 °C / -61.6 °F Softening Point No data available

**Boiling Point/Range** 156 - 157 °C / 312.8 - 314.6 °F

Flash Point 59 °C / 138.2 °F Flammability (liquid) Flammable Not applicable Explosion Limits Lower 1.2 vol%

Upper 7.7 vol%

Autoignition Temperature 292 - °C / 557.6 - °F Decomposition Temperature No data available

Remarks • Method

**Method -** DIN 51758 On basis of test data

Liquid

Revision Date 19-Dec-2025 Hexyl alcohol

Hq Not applicable **Viscosity** 5.3 mPa.s at 20 °C **Water Solubility** 6 g/L (25°C)

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

log Pow Component

n-Hexanol

1.3 mbar @ 20 °C **Vapor Pressure** 

**Density / Specific Gravity** 0.814 DIN 51757 **Bulk Density** Not applicable Liquid **Vapor Density** (Air = 1.0)3.52

Particle characteristics Not applicable (liquid)

Other Information

Molecular Formula C6 H14 O **Molecular Weight** 102.18

Not explosive (no chemical groups associated with explosive properties) **Explosive Properties** 

explosive air/vapour mixtures possible

Not oxidising (based on the chemical structure of the substance and oxidation states of the **Oxidizing Properties** 

constituent elements)

## 10. Stability and reactivity

**Reactive Hazard** None known, based on information available

Stable under normal conditions. Stability

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

sources of ignition. Protect from direct sunlight.

**Incompatible Materials** Strong oxidizing agents, Strong acids

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

Information on expected route of exposure

May cause irritation of respiratory tract. May be harmful if inhaled. Inhalation

Ingestion Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea. Ingestion may cause irritation to mucous membranes.

Irritating to eyes. Moderately irritating to the eyes. Contact with eyes may cause irritation. Eyes Skin

Irritating to skin. May be harmful in contact with skin. May cause eye/skin irritation.

#### Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
n-Hexanol	LD50 = 3210 mg/kg (Rat)	LD50 1500 - 2000 mg/kg( Rabbit)	LC50 > 21 mg/L (Rat) 1 h

**Toxicologically Synergistic** 

**Products** 

No information available

(b) skin corrosion/irritation; Based on available data, the classification criteria are not met

Test method OECD 404
Test species rabbit

Observational endpoint No skin irritation

(c) serious eye damage/irritation; Category 2
Test method OECD 405
Test species rabbit

Observation end point Severe eye irritant

(d) respiratory or skin sensitization;

**Respiratory**Skin

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

Component	Test method	Test species	Study result
n-Hexanol	Skin sensitization	guinea pig	<ul> <li>non-sensitising</li> </ul>
111-27-3 ( >95 )			_

(e) germ cell mutagenicity; Based on available data, the classification criteria are not met

(f) carcinogenicity; Based on available data, the classification criteria are not met

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

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
n-Hexanol	111-27-3	Not listed				

(g) reproductive toxicity; Based on available data, the classification criteria are not met

(h) STOT-single exposure; Based on available data, the classification criteria are not met

(i) STOT-repeated exposure; Based on available data, the classification criteria are not met

Target Organs None known.

(j) aspiration hazard; Based on available data, the classification criteria are not met

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

Other Adverse Effects The toxicological properties have not been fully investigated.

**Endocrine Disrupting Properties** This product does not contain any known or suspected endocrine disruptors.

## 12. Ecological information

#### **Ecotoxicity**

This product contains the following substance(s) which are hazardous for the environment.

Component	Component Freshwater Algae		Microtox	Water Flea	
n-Hexanol Not listed		LC50 > 100 mg/L 96h	EC50 = 27.5 mg/L 30 min	Not listed	
		_	$FC50 = 300.4 \text{ mg/l} \cdot 48 \text{ h}$		

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

#### **Mobility**

. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
n-Hexanol	1.8

## 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

UN-No UN2282
Proper Shipping Name HEXANOLS

Hazard Class 3
Packing Group III

TDG

UN-No UN2282
Proper Shipping Name HEXANOLS

Hazard Class 3
Packing Group III

<u>IATA</u>

UN-No UN2282
Proper Shipping Name HEXANOLS

Hazard Class 3
Packing Group III

IMDG/IMO

UN-No UN2282
Proper Shipping Name HEXANOLS

Hazard Class 3
Packing Group III

## 15. Regulatory Information

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
n-Hexanol	111-27-3	Χ	ACTIVE	-

### Legend:

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

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

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-Hexanol	111-27-3	X	-	203-852-3	X	X	X	Х	Х	KE-19815

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Not applicable

Health Administration

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Component			New Jersey Pennsylvania		Rhode Island
n-Hexanol	-	Х	Х	=	Х

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

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

U.S. Department of Homeland

This product does not contain any DHS chemicals.

Security

Other International Regulations

Mexico - Grade Moderate risk, Grade 2

#### Authorisation/Restrictions according to EU REACH Not applicable

Γ	Component	CAS No	REACH (1907/2006) -	REACH (1907/2006) -	REACH Regulation (EC
1	-		Annex XIV - Substances	Annex XVII - Restrictions	1907/2006) article 59 -
1			Subject to Authorization	on Certain Dangerous	Candidate List of
1				Substances	Substances of Very High
L					Concern (SVHC)
Ι	n-Hexanol	111-27-3	-	-	-

## Safety, health and environmental regulations/legislation specific for the substance or mixture

Component CAS No OECD HPV	Persistent Organic	Ozone Depletion	Restriction of
	Pollutant	Potential	Hazardous

					Substances (RoHS)
n-Hexanol	111-27-3	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

#### Other International Regulations

	Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Ī	n-Hexanol	111-27-3	Not applicable	Not applicable	Not applicable	Not applicable

16. Other Information
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Prepared By Product stewardship (Regulatory Affairs)

Thermo Fisher Scientific

email - begel.sdsdesk@thermofisher.com

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Revision Summary Updated to the U.S. Department of Labor's Occupational Safety and Health Administration

(OSHA) which published its Final Rule in the Federal Register revising the Hazard Communication Standard (HCS/HazCom), 29 CFR 1910.1200 (2024) (HCS §1910.1200,

2024), May 20, 2024, effective July 19, 2024.

#### **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**