

SAFETY DATA SHEET

Creation Date 20-Sep-2010

Revision Date 29-Mar-2024

Revision Number 5

1. Identification			
Product Name	1-Decanol		
Cat No. :	A17288		
CAS No Synonyms	112-30-1 1-Decanol		
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.		

Details of the supplier of the safety data sheet

Company

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

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 by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 4
Serious Eye Damage/Eye Irritation	Category 2
Senous Eye Damage/Eye Imalion	Calegory 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

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

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)

Harmful to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component		CAS No	Weight %	
1-Decanol		112-30-1	<=100	
	4. First-	aid measures		
Eye Contact	Rinse immediately wi Immediate medical at		ne eyelids, for at least 15 minutes.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.			
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.			
Ingestion	Do NOT induce vomit	ting. Get medical attention.		
Most important symptoms and effects Notes to Physician	Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredne nausea and vomiting Treat symptomatically			
	5. Fire-fig	hting 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	82 °C / 179.6 °F

Method -	No information available
Autoignition Temperature	255 °C / 491 °F
Lower Sensitivity to Mechanical Impact	No data available No data available No information available No information available

Specific Hazards Arising from the Chemical

Combustible material. 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 Health 2	Flammability 2	Instability 0	Physical hazards N/A		
	6. Accidental re	lease measures			
Personal Precautions		uipment as required. Remove a			
Environmental Precautions		o the environment. See Section	contact with skin, eyes or clothing. 12 for additional Ecological		
Methods for Containment and C Up		tion. Soak up with inert absorbe sal. Use spark-proof tools and e			
	7. Handling	and storage			
Handling	spark-proof tools and explo Avoid ingestion and inhala		ontact with skin, eyes or clothing. es, hot surfaces and sources of		
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Incompatible Materials. Strong oxidizing agents.				
8.	Exposure controls	/ personal protection	on		
Exposure Guidelines		ain any hazardous materials wit gion specific regulatory bodies.	th occupational exposure		
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		e eyeglasses or chemical safety ection regulations in 29 CFR 19			

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

9. Physical and chemical properties

Physical State	Liquid
Appearance	Light yellow
Odor	aromatic
Odor Threshold	No information available
рН	No information available
Melting Point/Range	6 °C / 42.8 °F
Boiling Point/Range	220 - 240 °C / 428 - 464 °F
Flash Point	82 °C / 179.6 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	<0.1 mbar @ 20 °C
Vapor Density	5.46 (Air = 1.0)
Specific Gravity	0.829
Solubility	No information available
Partition coefficient; n-octanol/wa	
Autoignition Temperature	255 °C / 491 °F
Decomposition Temperature	No information available
Viscosity	14.1 mPa.s at 20 °C
Molecular Formula	C10 H22 O
Molecular Weight	158.28

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		
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
1-Decanol	LD50 = 4720 mg/kg (Rat)	LD50 = 3560 mg/kg (Rabbit)	Not listed
Taxical agiantly Synargistic	No information available	•	

Toxicologically Synergistic No

No information available

Products Delayed and imme	diate effects as w	vell as chronic effe	cts from short an	id long-term expo	sure_	
Irritation		Irritating to eyes				
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ed any ingredient	as a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
1-Decanol	112-30-1	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		Not mutagenic in A	AMES Test			
Reproductive Effect	ts	No information available.				
Developmental Effe	ects	No information available.				
Teratogenicity		No information ava	ailable.			
STOT - single expo STOT - repeated ex		None known None known				
Aspiration hazard		No information available				
Symptoms / effect delayed	s,both acute and	and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting			ea and vomiting	
Endocrine Disruptor Information No information available						
Other Adverse Effe	ects	The toxicological properties have not been fully investigated. See actual entry in RTECS fo complete information.			entry in RTECS for	

12. Ecological information

Ecotoxicity

The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
1-Decanol	Not listed	Pimephales promelas: LC50=2.2-2.5 mg/L 96h	EC50 = 1.31 mg/L 5 min EC50 = 1.47 mg/L 30 min EC50 = 8.83 mg/L 48 h	EC50: 11 mg/L, 24h (Daphnia magna) EC50: 3 mg/L, 48h (Daphnia magna)
Persistence and Degradability Insoluble in water May persist based on information available.				

Bioaccumulation/ Accumulation

No information available.

Mobility

. Is not likely mobile in the environment due its low water solubility.

Component	log Pow
1-Decanol	4.5

	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 CFR §173.150(f)(1), this material should reclassified as NA1993,

Combustible Liquid, NOS if it is shipped in bulk.

	NIA 4000
UN-No	NA1993
Proper Shipping Name	Combustible liquid, n.o.s.
Packing Group	III
TDG	Not regulated
	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
1-Decanol	112-30-1	Х	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 Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

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
1-Decanol	112-30-1	Х	-	203-956-9	Х	Х	Х	Х	Х	KE-09483

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 Health Administration	Not applicable

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	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island	
1-Decanol	-	-	Х	-	Х	
U.S. Department of Trans Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Polluta	N N					
U.S. Department of Home Security	eland This pro	This product does not contain any DHS chemicals.				
Other International Regu	lations					
Mexico - Grade	No infor	mation available				
Authorisation/Restriction	ns according to EU	REACH No	ot applicable			

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	5	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
1-Decanol	112-30-1	-	-	-

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
1-Decanol	112-30-1	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)
1-Decanol	112-30-1	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information	
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com	
Creation Date Revision Date	20-Sep-2010 29-Mar-2024	

Print Date Revision Summary 29-Mar-2024 New emergency telephone response service provider.

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