

# SAFETY DATA SHEET

Revision Date 23-Jan-2018

**Revision Number** 3

# 1. Identification

# Product Name 1-Chlorodecane

# AC108980000; AC108980010; AC108980050; AC108982500

Synonyms

Cat No. :

n-Decyl chloride

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

# Details of the supplier of the safety data sheet

#### <u>Company</u>

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

## **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **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 Skin Corrosion/irritation
Skin Corrosion/irritation
Serious Eye Damage/Eye Irritation

Category 4 Category 2 Category 2

# Label Elements

Signal Word Warning

Hazard Statements Combustible liquid Causes skin irritation Causes serious eye irritation



### **Precautionary Statements**

### Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Keep away from heat/sparks/open flames/hot surfaces. - No smoking Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse 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)

Very toxic to aquatic life with long lasting effects

# 3. Composition/Information on Ingredients

Component		CAS-No	Weight %			
Decane, 1-chloro-		1002-69-3	97-99			
4. First-aid measures						
Eye ContactRinse immediately with plenty of water, also under the eyelids, for at least 15 minu medical attention.						
Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.						
Inhalation Remove from exposure, lie down. Move to fresh air. If not breathing, give artificial respiration. Obtain medical attention.						
Ingestion	Clean mouth	with water. Get medical attention.				
Most important symptoms and effectsBreathing difficulties. Inhalation of high vapor concentrations may cause symptoms headache, dizziness, tiredness, nausea and vomiting Treat symptomatically						
5. Fire-fighting measures						
Suitable Extinguishing MediaWater spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam. Cool closed con exposed to fire with water spray.						
Unsuitable Extinguishing Media	No information available					
Flash Point 83 °C / 181.4 °F						
Method -	Method - No information available					
Autoignition Temperature 200 °C / 392 °F						
Explosion Limits Upper	No data avai	lable				

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. Do not allow run-off from fire fighting to enter drains or water courses.

# **Hazardous Combustion Products**

Hydrogen chloride gas 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		Flowmakility	In stability	Dhusiaal kasarda
	Health 2	Flammability 1	Instability 0	Physical hazards N/A
		6. Accidental rel	lease measures	
	Precautions ental Precautions	Do not flush into surface w contaminate ground water	tion. Take precautionary measu ater or sanitary sewer system. I system. Prevent product from e cant spillages cannot be contain	Do not allow material to ntering drains. Local authorities
Methods f Up	or Containment and Cl		nt material (e.g. sand, silica gel, closed containers for disposal.	
		7. Handling a	and storage	
Handling		Avoid contact with skin and open flames, hot surfaces	l eyes. Do not breathe vapors o and sources of ignition.	r spray mist. Keep away from
Storage			II-ventilated place. Keep contain gnition. Keep containers tightly c	
	8.	Exposure controls	/ personal protectic	n
<u>Exposure</u>	<u>Guidelines</u>		ain any hazardous materials wit jion specific regulatory bodies.	h occupational exposure
Engineeri	ng Measures		n, especially in confined areas. se to the workstation location.	Ensure that eyewash stations
Personal	Protective Equipment			
Eye/fa	ce Protection		e eyeglasses or chemical safety action regulations in 29 CFR 19	
Skin a	nd body protection	Wear appropriate protectiv	e gloves and clothing to prevent	skin exposure.
Respi	ratory Protection	No protective equipment is	needed under normal use conc	litions.
Hygiei	ne Measures	Handle in accordance with	good industrial hygiene and saf	ety practice.
		9. Physical and ch		
Physical S	State	I	Liquid	

Appearance Odor **Odor Threshold** рΗ Melting Point/Range **Boiling Point/Range** Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity Molecular Formula **Molecular Weight** 

Colorless Odorless No information available No information available -34 °C / -29.2 °F 223 °C / 433.4 °F @ 760 mmHg 83 °C / 181.4 °F No information available Not applicable No data available No data available 14.1 hPa @ 99 °C No information available 0.860 No information available No data available 200 °C / 392 °F No information available 1.94 mPa.s at 20 °C C10 H21 CI 176.73

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available			
Stability	Stable under normal conditions.			
Conditions to Avoid	Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.			
Incompatible Materials	Strong oxidizing agents, Strong bases			
Hazardous Decomposition Product	<b>s</b> Hydrogen chloride gas, Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )			
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	None under normal processing.			

# 11. Toxicological information

# Acute Toxicity

Product InformationNo acute toxicity information is available for this productComponent InformationNo information availableToxicologically SynergisticNo information availableProductsDelayed and immediate effects as well as chronic effects from short and long-term exposure						
Irritation		No information available				
Sensitization		No information available				
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
Decane, 1-chloro-	1002-69-3	Not listed	Not listed	Not listed	Not listed	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 None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

# 12. Ecological information

# **Ecotoxicity**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Component Freshwater Algae   Decane, 1-chloro- Not listed		Freshwater Fish	Microtox	Water Flea			
Decane, 1-chloro-			Not listed	EC50 = 109 mg/L 5 min EC50 = 148 mg/L 30 min	Not listed			
Persistence and Degrada	bility	Insoluble in v	vater May persist based or	n information available.				
<b>Bioaccumulation/Accum</b>	ulation	No informatio	on available.					
Mobility		Is not likely m	nobile in the environment o	due its low water solubility.				
		13. Di	sposal consider	ations				
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. T	ransport inform	ation				
DOT		Not regulated						
TDG		Not regulated						
IATA								
UN-No		3082						
Proper Shipping Name		ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.*						
Hazard Class		9						
Packing Group IMDG/IMO		111						
UN-No		3082						
Proper Shipping Nam	e	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.						
Hazard Class		9						
Packing Group		III						

15. Regulatory information

#### **International Inventories**

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Decane, 1-chloro-	Х	-	Х	213-691-0	-		Х	Х	-	Х	-
Logondy											

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA. F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### U.S. Federal Regulations

TSCA 12(b)	Not applicable
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
<b>OSHA</b> Occupational Safety and Healt Not applicable	h Administration
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):	Ν
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

Mexico - Grade

No information available

	16. Other information					
Prepared By	Regulatory Affairs Thermo Fisher Scientific					
	Email: EMSDS.RA@thermofisher.com					
Revision Date Print Date	23-Jan-2018 23-Jan-2018					
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).					

#### 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