

SAFETY DATA SHEET

Revision Date 26-Dec-2021

Revision Number 4

1. Identification

Product Name

Diisopropanolamine

Cat No. : AC407800000; AC407800025; AC407800050; AC407805000

CAS No Synonyms 110-97-4 1,1`-Iminodi-2-propanol

Recommended Use Uses advised against Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company 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)

Serious Eye Damage/Eye Irritation

Category 2

Label Elements

Signal Word Warning

Hazard Statements Causes serious eye irritation



Precautionary Statements Prevention Wash face, hands and any exposed skin thoroughly after handling Wear eye/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 Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %				
Diisopropanolamine		110-97-4	>95				
	4.	First-aid measures					
Eye Contact	Rinse immeo medical atter	immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get al attention.					
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.						
Inhalation		Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.					
Ingestion	Clean mouth with water. Get medical attention.						
Most important symptoms and effects	No informatio	ormation available.					
Notes to Physician	Treat sympto	matically					

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point	126 °C / 258.8 °F
Method -	No information available
Autoignition Temperature	370 °C / 698 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac	5.40% 1.10% t No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Nitrogen oxides (NOx). 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 0							
	6. Accidental rel	lease measures						
Personal PrecautionsEnsure adequate ventilation. Use personal protective equipment as required.Environmental PrecautionsSee Section 12 for additional Ecological Information.								
Methods for Containment and C Up	Clean Sweep up and shovel into s	suitable containers for disposa	l.					
	7. Handling a	and storage						

	7. Handling and storage
Handling	Avoid contact with skin and eyes. Do not breathe mist/vapors/spray.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Store under an inert atmosphere. Incompatible Materials. Strong oxidizing agents. Strong acids. Acid anhydrides. Acid chlorides. Isocyanates.
8. E	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. 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.
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 Appearance	Liquid Clear

Appearance Odor Odor Threshold

Page 3/7

Amine compounds No information available

Diisopropanolamine

pН

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**

11.4 100 g/L aq.sol 33 °C / 91.4 °F 249 - 250 °C / 480.2 - 482 °F @ 760 mmHg 126 °C / 258.8 °F No information available Not applicable 5.40% 1.10% 0.02 mmHg @ 42 °C No information available 1.004 No information available No data available 370 °C / 698 °F

10. Stability and reactivity

No information available

84.19 mPa.s @ 60°C

C6 H15 N O2

133.19

Reactive Hazard	None known, based on information available				
Stability	Hygroscopic.				
Conditions to Avoid Incompatible products. Exposure to moist air or water.					
Incompatible Materials Strong oxidizing agents, Strong acids, Acid anhydrides, Acid chlorides, Isocy					
Hazardous Decomposition Products Nitrogen oxides (NOx), 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
Diisopropanolamine L		LD50 = 4765 mg/kg (Ra	at) LD50 =	8000 mg/kg (Rabbit)	No	ot listed
Toxicologically Syne Products Delayed and immedi	0	No information avai		nd long-term exposi	ure_	
Irritation No information available						
Sensitization No information available						
Carcinogenicity		The table below ind	licates whether e	ach agency has listed	d any ingredient	as a carcinoger
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Diisopropanolamine	110-97-4	Not listed	Not listed	Not listed	Not listed	Not listed
Nutagenic Effects		Not mutagenic in A	MES Test			

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	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Mobility

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Diisopropanolamine	EC50: = 270 mg/L, 72h (Desmodesmus subspicatus)	LC50: 1000 - 2200 mg/L, 96h static (Brachydanio rerio)	Not listed	EC50: = 277.7 mg/L, 48h (Daphnia magna Straus)
Persistence and Degrada	ability Persistence i	s unlikely		

Bioaccumulation/ Accumulation No information available.

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

Component	log Pow
Diisopropanolamine	-0.79

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	Not regulated
DOT TDG	Not regulated
IATA_	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	
Diisopropanolamine	110-97-4	Х	ACTIVE	-	

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

Not Elotod

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
Diisopropanolamine	110-97-4	Х	-	203-820-9	Х	Х	Х	Х	Х	KE-20968

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

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

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Diisopropanolamine	Х	-	Х	-	-

U.S. Department of Transportation

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

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component		REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	0 (
Diisopropanolamine	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

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)
-----------	--------	----------	---------------------------------	------------------------------	--

Diisopropanolamine	110-97-4	Listed	Not applicable	Not applicable	Not applicable
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)
Diisopropanolamine	110-97-4	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	26-Dec-2021 26-Dec-2021 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

End of SDS