

SAFETY DATA SHEET

Revision Date 19-Jan-2018

Revision Number 3

1. Identification

Product Name Isopropanol-d8

AC174850000; AC174850050; AC174850250

CAS-No Synonyms

Cat No. :

22739-76-0 IPA-d8; 2-Propanol-d8; Isopropyl alcohol-d8

Recommended UseLaboratory chemicals.Uses advised againstNot for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company 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 Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Central nervous system (CNS). Category 2 Category 2 Category 3

Label Elements

Signal Word Danger

Hazard Statements

Highly flammable liquid and vapor Causes serious eye irritation May cause drowsiness or dizziness



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/protective clothing/eye protection/face protection Keep cool Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Eves 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 container tightly closed

Store locked up

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 %	
(0,1,1,1,2,3,3,3-2	(0,1,1,1,2,3,3,3-2H8)Propan-2-ol		>95	
4. First-aid measures				
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 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. Immediate medical attention is required.		
Ingestion		Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician immediately. If possible drink milk afterwards.		

Most important symptoms and effects Notes to Physician	Breathing difficulties. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting Treat symptomatically		
	5. Fire-fighting measures		
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Use water spray to cool unopened containers. Chemical foam. Cool closed containers exposed to fire with water spray.		
Unsuitable Extinguishing Media	No information available		
Flash Point	12 °C / 53.6 °F		
Method -	No information available		
Autoignition Temperature Explosion Limits	No information available		
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 C	hemical		

Flammable. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂) peroxides

Protective Equipment and Precautions for Firefighters

Vapors are heavier than air and may spread along floors. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>	Health 2	Flammability 3	Instability 0	Physical hazards N/A
		6. Accidental re	lease measures	
Personal PrecautionsRemove all sources of ignition. Take precautionary measures against static dischargeEnvironmental PrecautionsSee Section 12 for additional ecological information.				sures against static discharges.

Methods for Containment and Clean Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Provide adequate ventilation.

	7. Handling and storage
Handling	Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Avoid contact with clothing. Take precautionary measures against static discharges. Do not ingest. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Wash thoroughly after handling. Use explosion-proof equipment. Use only non-sparking tools. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Contents may develop pressure upon prolonged storage. Use caution when opening. Keep away from open flames, hot surfaces and sources of ignition.
Storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition. Keep away from direct sunlight. Protect from moisture. Flammables area. Containers should be dated when opened and tested periodically for the presence of peroxides. Keep away from heat/sparks/open flames/hot surfaces No smoking. Purge open drums with nitrogen before resealing. Keep container tightly closed in a dry and well-ventilated place.

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. 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	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	No protective equipment is needed under normal use conditions.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	82 °C / 179.6 °F @ 760 mmHg
Flash Point	12 °C / 53.6 °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	No information available
Vapor Density	No information available
Specific Gravity	0.890
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C3 D8 O
Molecular Weight	68.15

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	May form explosive peroxides. Stable under recommended storage conditions. Do not distill or allow to evaporate. Hygroscopic.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Exposure to light. Incompatible products. Exposure to moist air or water.

Incompatible Materials	Acids, Halogens, Acid anhydrides, Metals		
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), peroxides			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		
11. Toxicological information			

Acute	Toxicity

Product Information Component Information	No acute toxicity information is available for this product		
Toxicologically Synergistic	No information available		
Products Delayed 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 indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
(O,1,1,1,2,3,3,3-2H8)P ropan-2-ol	22739-76-0	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effect	s	No information available.				
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single exposure STOT - repeated exposure		Central nervous system (CNS) 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. Ecol	ogical infor	mation		
Ecotoxicity Do not empty into dra	ains.					
Persistence and Degradability		Persistence is unlikely based on information available.				

Persistence and Degradability Persistence is unlikely based on information available.			
Bioaccumulation/ Accumulation	No information available.		
Mobility	Will likely be mobile in the environment due to its volatility.		
	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		
TDG	Not regulated		
IATA_			
UN-No	UN1219		
Proper Shipping Name	Isopropanol		
Hazard Class	3		
Packing Group	I		
IMDG/IMO			
UN-No	UN1219		
Proper Shipping Name	Isopropanol (Isopropyl alcohol)		
Hazard Class	3		
Packing Group	Ι		
15. Regulatory information			

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
(O,1,1,1,2,3,3,3-2H8)Propan-	-	-	-	245-189-2	-		-	-	-	-	-
2-ol											

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		
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):	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

16. Other information			
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com		
Revision Date Print Date Revision Summary	19-Jan-2018 19-Jan-2018 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