

SAFETY DATA SHEET

Creation Date 23-Mar-2012

Revision Date 24-Dec-2021

Revision Number 5

1. Identification

Product Name

Acetic acid-d

Cat No. :

AC166200000; AC166200500; AC166202500

CAS No Synonyms 758-12-3 No information available

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)

Flammable liquids Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 3 Category 1 A Category 1 Category 3

Label Elements

Signal Word Danger

Hazard Statements

Flammable liquid and vapor Causes severe skin burns and eye damage May cause respiratory irritation



Precautionary Statements Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

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

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

Keep cool

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing **Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

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 %
Acetic [2H]acid	758-12-3	>95

4. First-aid measures

General AdviceShow this safety data sheet to the doctor in attendance. Immediate medical attention is
required.Eye ContactRinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Immediate medical attention is required.

Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Call a physician immediately.
Inhalation	If not breathing, give artificial respiration. Remove from exposure, lie down. 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. Call a physician immediately.
Ingestion	Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.
Most important symptoms and effects	Causes burns by all exposure routes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Notes to Physician	Treat symptomatically

5. File-lighting measures

Suitable Extinguishing Media	Water spray. Chemical foam. Water mist may be used to cool closed containers. CO $_2$, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point	40 °C / 104 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	17.00%
Lower	4.00%
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

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. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA Health 3	Flammability 2	Instability 1	Physical hazards N/A		
	6. Accidental rel	ease measures			
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Take precautionary measures against static discharges.				
Environmental Precautions	Should not be released into		0		

Methods for Containment and Clean Keep in suitable, closed containers for disposal. Soak up with inert absorbent material.

Up	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
	7. Handling and storage
Handling	Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.
Storage.	Do not freeze. Flammables area. Keep away from heat/sparks/open flames/hot surfaces No smoking. Corrosives area. Keep away from heat, sparks and flame. Store under an inert atmosphere. Protect from moisture. Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Bases. Strong oxidizing agents.
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. 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	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.

Physical State	Liquid
ppearance	Colorless
)dor	No information available
Ddor Threshold	No information available
н	No information available
lelting Point/Range	15 - 16 °C / 59 - 60.8 °F
Boiling Point/Range	116 - 117 °C / 240.8 - 242.6 °F @ 760 mmHg
lash Point	40 °C / 104 °F
vaporation Rate	No information available
lammability (solid,gas)	Not applicable
lammability or explosive limits	
Upper	17.00%
Lower	4.00%
/apor Pressure	No information available
apor Density	No information available
pecific Gravity	1.07
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
utoignition Temperature	No information available

Decomposition Ter Viscosity Molecular Formula Molecular Weight	nperature			ation available ation available 02		
		10. Stabi	lity and rea	activity		
Reactive Hazard		None known, base	d on information a	vailable		
Stability		May react with met	als and lead to the	e formation of flam	mable hydrogen ga	s. Hygroscopic.
Conditions to Avoid	d	Keep away from op to moist air or wate		rfaces and source	s of ignition. Excess	s heat. Exposure
Incompatible Mater	ials	Bases, Strong oxid	izing agents			
Hazardous Decomp	position Products	s Carbon monoxide ((CO), Carbon diox	ide (CO2)		
Hazardous Polyme	rization	No information ava	ilable.			
Hazardous Reactio	ns	No information ava	ilable.			
		11. Toxico	logical info	ormation		
Acute Toxicity						
Product Information		No acute toxicity in	formation is availa	ble for this produc	t	
Toxicologically Syr		No information ava	ilable			
Products Delayed and immed	diate effects as w	well as chronic effects from short and long-term exposure				
Irritation		Causes burns by all exposure routes				
Sensitization		No information available				
Carcinogenicity		The table below inc	dicates whether ea	ach agency has lis	ted any ingredient a	as a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Acetic [2H]acid Mutagenic Effects	758-12-3	Not listed No information ava	Not listed ilable	Not listed	Not listed	Not listed
Reproductive Effec	ts	No information ava	ilable.			
Developmental Effe	ects	No information ava	ilable.			
Teratogenicity		No information ava	ilable.			
STOT - single expo STOT - repeated ex		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	s,both acute and	d Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation				ndicated.
Endocrine Disrupto	or Information	No information ava	ilable			
Other Adverse Effe	cts	The toxicological p	roperties have not	been fully investig	gated.	

12. Ecological information				
Ecotoxicity Do not empty into drains.				
Persistence and Degradability	No information available			
Bioaccumulation/ Accumulation	No information available.			
Mobility	No information available.			
	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	UN2789			
Proper Shipping Name	ACETIC ACID, GLACIAL			
Hazard Class	8			
Subsidiary Hazard Class	3			
Packing Group	II			
_ TDG_				
UN-No	UN2789			
Proper Shipping Name	ACETIC ACID, GLACIAL			
Hazard Class	8			
Subsidiary Hazard Class	3			
Packing Group	II			
ΙΑΤΑ				

Proper Shipping Name	ACETIC ACID SOLUTION
Hazard Class	8
Subsidiary Hazard Class	3
Packing Group	II
IMDG/IMO	
UN-No	UN2789
Proper Shipping Name	ACETIC ACID, GLACIAL
Hazard Class	8
Subsidiary Hazard Class	3
Packing Group	II
	15 Descriptions

UN2789

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Acetic [2H]acid	758-12-3	-	-	-

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

UN-No

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
Acetic [2H]acid	758-12-3	-	-	212-059-1	-	-		-	-	-

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	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
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

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)
Acetic [2H]acid	758-12-3	Not applicable	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)
Acetic [2H]acid	758-12-3	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information	
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Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	23-Mar-2012 24-Dec-2021 24-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