

SAFETY DATA SHEET

Revision Date 05-Sep-2023

Revision Number 3

	1. Identification
Product Name	2,3-Dihydro-1,4-benzodioxine-6-carboxylic acid
Cat No. :	CC01301CB; CC01301DA; CC01301DE; CC01301FL; CC01301SC; CC01301ZZ
Synonyms	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

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

Thermo Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410

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)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

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: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

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

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 %		
2,3-Dihydro-1,4-benzodioxine-6-ca	arboxylic acid	4442-54-0	97		
	4.	First-aid measures			
General Advice	If symptoms	persist, call a physician.			
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 plenty of water for at least 15 minutes. If skin irritation persists, call a physician.				
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.				
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.				
Most important symptoms and effects	None reason	ably foreseeable.			

Notes to Physician

Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO₂). Dry chemical. Chemical foam.

Unsuitable Extinguishing Media	No information available
Flash Point	No information available No information available
Method -	no mormation available
Autoignition Temperature	No information available
Explosion Limits	
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 Chemical

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.

<u>NFPA</u>	Health	Flammability	Instability 0	Physical hazards N/A		
			-			
		6. Accidental re	lease measures			
Personal	Precautions	Ensure adequate ventilation formation.	n. Use personal protective equ	ipment as required. Avoid dust		
Environm	ental Precautions	Should not be released internation.	o the environment. See Section	n 12 for additional Ecological		
Methods Up	for Containment and C	Iean Sweep up and shovel into containers for disposal.	suitable containers for disposa	I. Keep in suitable, closed		
		7. Handling	and storage			
Handling				ure adequate ventilation. Do not nhalation. Avoid dust formation.		
Storage.		Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Bases. Strong oxidizing agents.				
	8.	Exposure controls	/ personal protecti	on		
Exposure	Guidelines		ain any hazardous materials w gion specific regulatory bodies.			
Engineeri	ng Measures			. Ensure that eyewash stations		
Personal	Protective Equipment	-	se to the workstation location.			

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.
Recommended Filter type:	Particulates filter conforming to EN 143.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical	9. Physical and chemical properties						
Physical State Solid							
Appearance	White						
Odor	No information available						
Odor Threshold	No information available						
рН	No information available						
Melting Point/Range	133 - 137 °C / 271.4 - 278.6 °F						
Boiling Point/Range	No information available						
Flash Point	No information available						
Evaporation Rate	Not applicable						
Flammability (solid,gas)	No information available						
Flammability or explosive limits							
Upper	No data available						
Lower	No data available						
Vapor Pressure	No information available						
Vapor Density	Not applicable						
Specific Gravity	No information available						
Solubility	No information available						
Partition coefficient; n-octanol/water	No data available						
Autoignition Temperature	No information available						
Decomposition Temperature	No information available						
Viscosity	Not applicable						
Molecular Formula	C9 H8 O4						
Molecular Weight	180.16						

10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions.		
Conditions to Avoid	Incompatible products.		
Incompatible Materials	Bases, Strong oxidizing agents		
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)			
Hazardous Polymerization	No information available.		
Hazardous Reactions	None under normal processing.		
Acute Tovicity	11. Toxicological information		

Acute Toxicity

Product Information	No acute toxicity information is available for this product							
Component Information Toxicologically Synergistic Products	No information available							
	ell as chronic effects from short and long-term exposure							
Irritation	No information ava	ilable						
Sensitization	No information ava	ilable						
Carcinogenicity	The table below in	dicates whether ea	ach agency has lis	ted any ingredient a	as a carcinogen.			
Component CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
2,3-Dihydro-1,4-benzo dioxine-6-carboxylic acid	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects	No information ava	ailable						
Reproductive Effects	No information ava	ilable.						
Developmental Effects	No information ava	ilable.						
Teratogenicity	No information ava	ilable.						
STOT - single exposure STOT - repeated exposure	Respiratory system None known							
Aspiration hazard	No information ava	ilable						
Symptoms / effects,both acute and delayed	No information ava	ilable						
Endocrine Disruptor Information	No information available							
Other Adverse Effects	The toxicological properties have not been fully investigated.							
12. Ecological information								
<u>Ecotoxicity</u> Do not empty into drains.								
Persistence and Degradability	Soluble in water Po	ersistence is unlike	ely based on inform	nation available.				
Bioaccumulation/ Accumulation	No information ava	ilable.						
Mobility	Will likely be mobile in the environment due to its water solubility.							
	13. Dispo	sal conside	erations					
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. Tran	sport inform	mation					
DOT	Not regulated							
_ <u>TDG_</u> IATA_	Not regulated Not regulated							
IMDG/IMO	Not regulated							
	15. Regu	latory infor	mation					

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
2,3-Dihydro-1,4-benzodioxine-6-ca rboxylic acid	4442-54-0	-	-	-

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
2,3-Dihydro-1,4-benzodioxine-6-ca	4442-54-0	-	-	-	-	-		-	-	-
rboxylic acid										

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

Not 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)
2,3-Dihydro-1,4-benzodioxine-6-car boxylic acid	4442-54-0	-	-	-

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)
2,3-Dihydro-1,4-benzodioxine- 6-carboxylic acid	4442-54-0	Not applicable	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	Convention (PIC)	Basel Convention (Hazardous Waste)
2,3-Dihydro-1,4-benzodioxine- 6-carboxylic acid	4442-54-0	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	05-Sep-2023 05-Sep-2023 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