

SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 5

1. Identification

Product Name

2-Bromomethyl-1,3-dioxolane

Cat No. :

AC209840000; AC209840050; AC209840250; AC209841000

CAS No Synonyms

Bromoacetaldehyde ethylene acetal

4360-63-8

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 4 Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Combustible liquid 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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

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: 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 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 1,3-Dioxolane, 2-(bromomethyl)-		CAS No	Weight %			
		4360-63-8	97			
	4 5	irst-aid measures				
	4. Г	list-alu measures				
Eye Contact	Rinse immedia	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.				
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.					
Inhalation	Remove from exposure, lie down. Remove to fresh air.					
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If possible drink milk afterwards.					
Most important symptoms and effects	Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms li headache, dizziness, tiredness, nausea and vomiting					

Notes to Physician

Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO₂). Dry chemical. Alcohol resistant foam. Water mist may be used to cool closed containers.

Unsuitable Extinguishing MediaNo information availableFlash Point62 °C / 143.6 °FMethod -No information availableAutoignition Temperature
Explosion Limits
Upper
LowerNo information availableNo data available
Sensitivity to Mechanical Impact
Sensitivity to Static DischargeNo information available
No information available
No information available
No information available

Specific Hazards Arising from the Chemical

Combustible material. Containers may explode when heated.

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen halides.

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 2	Flammability 2	Instability 0	Physical hazards N/A	
	6. Accidental re	lease measures		
Personal Precautions Environmental Precautions		ition. Take precautionary measunal Ecological Information.	ures against static discharges.	
Methods for Containment and Cl Up	sawdust). Keep in suitable	ent material (e.g. sand, silica gel e, closed containers for disposal posal. Remove all sources of igr	. Sweep up and shovel into	
	7. Handling	and storage		
Handling	contaminated clothing and vapors or mists. Do not in	d gloves, including the inside, be	nediate medical assistance. Wash	
Storage.	containers tightly closed in	ell-ventilated place. Keep contain n a dry, cool and well-ventilated patible Materials. Strong oxidizir	place. Keep away from heat,	
8.	Exposure controls	/ personal protection	on	
Exposure Guidelines		tain any hazardous materials wi gion specific regulatory bodies.	th occupational exposure	

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ventilation systems. 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	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

	I I I I I I I I I I I I I I I I I I I
Physical State	Liquid
Appearance	Colorless
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	No data available
Boiling Point/Range	80 - 82 °C / 176 - 179.6 °F @ 27 mmHg
Flash Point	62 °C / 143.6 °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	5.75
Specific Gravity	1.610
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	C4 H7 Br O2
Molecular Weight	167

	10. Stability and reactivity
Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions. Moisture sensitive.
Conditions to Avoid	Incompatible products. Exposure to moist air or water. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases, Oxidizing agent
Hazardous Decomposition Product	s Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO ₂), Hydrogen halides
Hazardous Polymerization	No information available.

Hazardous Reactior	IS	None under normal processing.					
		11. Toxico	ological info	ormation			
Acute Toxicity							
Product Information Component Information		No acute toxicity information is available for this product					
Toxicologically Syn Products	ergistic	No information ava					
Delayed and immed	late effects as w	well as chronic effects from short and long-term exposure_					
Irritation		No information ava	ailable				
Sensitization		No information ava	ailable				
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	
1,3-Dioxolane, 2-(bromomethyl)-	4360-63-8	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	ailable				
Reproductive Effect	s	No information ava	ailable.				
Developmental Effe	cts	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single expos STOT - repeated exp		Respiratory system None known					
Aspiration hazard No information available							
Symptoms / effects delayed	Inhalation of high tiredness, nausea		ns may cause sym	ptoms like headac	he, dizziness,		
Endocrine Disrupto	r Information	No information available					
Other Adverse Effect	cts	The toxicological p	properties have not	been fully investig	ated.		
		12. Ecol	ogical infor	mation			
Ecotoxicity Do not empty into dra	ains.						
Persistence and De	gradability	Persistence is unli	ikely based on info	rmation available.			
Bioaccumulation/ A	ccumulation	No information ava	ailable.				
Mobility		Will likely be mobile in the environment due to its volatility.					
		13. Dispo	sal conside	erations			
Waste Disposal Met	hods	hazardous waste.	enerators must det Chemical waste g s waste regulations	enerators must als	o consult local, re	gional, and	
		14. Trar	nsport inform	mation			
DOT		COMBUSTIBLE L	IQUID, NOT REGU FR §173.150(f)(1),	JLATED FOR TR			

Combustible Liquid, NOS if it is shipped in bulk.

UN-No	NA1993
Proper Shipping Name	Combustible liquid, n.o.s.
Packing Group	III
<u>TDG</u>	Not regulated
<u>IATA</u>	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
1,3-Dioxolane, 2-(bromomethyl)-	4360-63-8	Х	ACTIVE	PMN

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

PMN - Indicates a commenced PMN substance

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
1,3-Dioxolane, 2-(bromomethyl)-	4360-63-8	-	Х	224-443-6	-	-		Х	-	-

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

U.S. Federal Regulations

DOT Severe Marine Pollutant

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	N N

Ν

U.S. Department of Homeland This product does not contain any DHS chemicals. Security

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)
1,3-Dioxolane, 2-(bromomethyl)-	4360-63-8	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) -	Seveso III Directive (2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		Qualifying Quantities for Major Accident Notification	Qualifying Quantities for Safety Report Requirements		
1,3-Dioxolane, 2-(bromomethyl)-	4360-63-8	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	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