

SAFETY DATA SHEET

Creation Date 01-Jun-2017

Revision Date 29-Jan-2018

Revision Number 2

1. Identification

Cyclobutanecarboxaldehyde

Product Name

AC463450000

Cat No. :

CAS-No Synonyms 2987-17-9 No information available

Recommended Use Uses advised against Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

<u>Company</u> 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	Category 3
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	0,1

Label Elements

Signal Word Warning

Hazard Statements

Flammable liquid and vapor 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 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

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 skin irritation occurs: Get medical advice/attention

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 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

Inhalation

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 %	
Cyclobutanecar	boxaldehyde	2987-17-9	>95	
	4. F	irst-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 imme call a physiciar	ff immediately with plenty of water for at least 15 minutes. If skin irritation persists, hysician.		

Move 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.
Most important symptoms and effects Notes to Physician	None reasonably foreseeable Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically
	5. Fire-fighting measures
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.
Unsuitable Extinguishing Media	No information available
Flash Point	23 °C / 73.4 °F
Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	

Specific Hazards Arising from the Chemical

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

None known

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 2	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions		on. Use personal protective equ ry measures against static disch	
Environmental Precautions	Should not be released in	to the environment.	·
Methods for Containment and Cle Up		ent material. Keep in suitable, cl ition. Use spark-proof tools and	
	7. Handling	and storage	
Handling	skin, or on clothing. Avoid	ingestion and inhalation. Keep a prition. Use only non-sparking to	
Storage	1 0 1	eed in a dry and well-ventilated p intain product quality. Keep refri	blace. Keep away from heat and gerated.
8. E	Exposure controls	/ personal protection	on
Exposure Guidelines	This product does not con	tain any hazardous materials wi	th occupational exposure

	limitsestablished by the region specific regulatory bodies.	
Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. 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	Long sleeved clothing.	
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. Ph	nysical 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

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Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	115 - 117 °C / 239 - 242.6 °F @760 mmHg
Flash Point	23 °C / 73.4 °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	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	No information available
Molecular Formula	C5 H8 O
Molecular Weight	84.12

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	Strong oxidizing agents

Hazardous Decomposition Products None under normal use conditions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing.

Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as y	No information available well as chronic effects from short and long-term exposure
Irritation	Irritating to eyes, respiratory system and skin
Sensitization	No information available

11. Toxicological information

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

						-	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Cyclobutanecarboxald ehyde	2987-17-9	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information available					
Reproductive Effect	S	No information available.					
Developmental Effect	cts	No information available.					
Teratogenicity		No information ava	ailable.				
STOT - single expos STOT - repeated exp		Respiratory system None known					
Aspiration hazard		No information ava	ailable				
Symptoms / effects delayed	both acute and,	d Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting					
Endocrine Disruptor Information No information available							
Other Adverse Effec	ts The toxicological properties have not been fully investigated.						
		12. Ecol	ogical infor	mation			
<u>Ecotoxicity</u> Do not empty into dra	ins.						
Persistence and Dec	gradability	No information ava	ailable				
Bioaccumulation/ Accumulation No information available.							
Mobility		No information available.					
		13. Dispo	sal conside	erations			
hazardou		Chemical waste ge hazardous waste national hazardous	Chemical waste g	enerators must als	so consult local, reg	gional, and	

14. Transport information

DOT	
UN-No	UN1989
Proper Shipping Name	ALDEHYDES, N.O.S.
Hazard Class	3
Packing Group	III
TDG	
UN-No	UN1989
Proper Shipping Name	ALDEHYDES, N.O.S.
Hazard Class	3
Packing Group	III
UN-No	UN1989
Proper Shipping Name	ALDEHYDES, N.O.S.
Hazard Class	3
Packing Group	III
IMDG/IMO	
UN-No	UN1989
Proper Shipping Name	ALDEHYDES, N.O.S.
Hazard Class	3
Packing Group	
	15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

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

on

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 Not applicable	Administration
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know	Not applicable

Regulations

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	
Creation Date Revision Date Print Date Revision Summary	01-Jun-2017 29-Jan-2018 29-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