

SAFETY DATA SHEET

Creation Date 22-Sep-2009

Revision Date 28-Mar-2019

Revision Number 3

1. Identification

Product Name

4,5-Dimethyl-2-furancarboxaldehyde

Cat No. :

BTB08889DA; BTB08889EA; BTB08889ZZ

Synonyms

No information available

Recommended UseLaboratory chemicals.Uses advised againstFood, 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

Maybridge 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 4

Label Elements

Signal Word Warning

Hazard Statements Combustible liquid

Precautionary Statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking Wear protective gloves/protective clothing/eye protection/face protection **Fire**

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

Storage Store in a well-ventilated place. Keep cool Disposal Dispose of contents/container to an approved waste disposal plant <u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
4,5-Dimethyl-2-furancarboxaldehyde	52480-43-0	97

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 plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.	
Inhalation	Move to fresh air. Get medical attention immediately 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 Notes to Physician	Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically	

5. Fire-fighting measures		
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO $_2$). Dry chemical. Chemical foam. Cool closed containers exposed to fire with water spray.	
Unsuitable Extinguishing Media	No information available	
Flash Point	66 °C / 150.8 °F	
Method -	No information available	
Autoignition Temperature Explosion Limits	No information available	
Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No data available No data available t No information available No information available	

Specific Hazards Arising from the Chemical Combustible material. Containers may explode when heated.

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 0	Flammability 2	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions		on. Use personal protective equi	
Environmental Precautions		ry measures against static disch to the environment. See Section	
Methods for Containment and Clea	an Sweep up or vacuum up s sources of ignition.	pillage and collect in suitable co	ntainer for disposal. Remove all
	7. Handling	and storage	
Handling		ngestion and inhalation. Keep a	uipment. Avoid contact with skin, way from open flames, hot
Storage		ed. Keep away from heat and s d. Keep containers tightly closed	ources of ignition. Keep under d in a dry, cool and well-ventilated
8. E	Exposure controls	/ personal protection	on
Exposure Guidelines		tain any hazardous materials wi gion specific regulatory bodies.	th occupational exposure
Engineering Measures	None under normal use co areas.	onditions. Ensure adequate vent	ilation, especially in confined
Personal Protective Equipment			
Eye/face Protection		ve eyeglasses or chemical safet ection regulations in 29 CFR 19	
Skin and body protection	Wear appropriate protective	ve gloves and clothing to preven	t skin exposure.
Respiratory Protection	No protective equipment is	s needed under normal use con	ditions.
Hygiene Measures	Handle in accordance with	n good industrial hygiene and sa	fety practice.
	9. Physical and ch	nemical properties	
Physical State		Liquid	
Appearance Odor		Light yellow No information available	
Odor Threshold		No information available	
рН		No information available	
Melting Point/Range		No data available	
Boiling Point/Range		98 - 100 °C / 208.4 - 212	°⊢ @ 12 mmHg
Flash Point Evaporation Rate		66 °C / 150.8 °F 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	

No information available 1.010 No information available No data available No information available No information available C7 H8 O2 124.14

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)	
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 Syne Products		No information ava	ailable			
Delayed and immedi	ate effects as v	vell as chronic effe	cts from short ar	nd long-term expo	<u>sure</u>	
Irritation		No information ava	ailable			
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether e	ach agency has list	ed any ingredient	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
4,5-Dimethyl-2-furanca rboxaldehyde	52480-43-0	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effects	5	No information ava	ailable.			

Developmental Effects	No information available.

Teratogenicity	No information available.

STOT - single exposureNone knownSTOT - repeated exposureNone known

Aspiration hazard No information available

Symptoms / effects,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting delayed

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	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 TDG IATA IMDG/IMO	Not regulated Not regulated Not regulated Not regulated	
	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

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	app	licable

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
	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	22-Sep-2009 28-Mar-2019 28-Mar-2019 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