

SAFETY DATA SHEET

Revision Date 30-Mar-2024

Revision Number 3

1. Identification

Product Name

2,2-Dimethyl-1,3-dioxan-5-one

Cat No. : L20177

CAS No Synonyms

Recommended Use Uses advised against

No information available Laboratory chemicals. Food, drug, pesticide or biocidal product use.

74181-34-3

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

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

<u>Classification</u> Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required

<u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %			
2,2-Dimethyl-1,3-dioxane-4,	6-dione	74181-34-3	<=100			
	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	Remove 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	None reasonably foreseeable.					
Notes to Physician	Treat symptomatically					
	5. Fi	re-fighting measures				
Unsuitable Extinguishing Media	No informatio	on available				
Flash Point Method -	No information available No information available					

Method -	No information 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.

NFPA Health 0	Flammability 1	Instability 0	Physical hazards -			
	6. Accidental re	lease measures				
Personal Precautions Environmental Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Should not be released into the environment. See Section 12 for additional Ecological Information.					

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Up

7. Handling and storage

Handling	Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Wear personal protective equipment/face protection. Ensure adequate ventilation.			
Storage.	Store in freezer.			
8. E	xposure 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	None under normal use conditions.			
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.			
Recommended Filter type:	Particle filter.			
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.			

9.	Physical and chemical properties
Physical State	Liquid
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	40 - 46 °C / 104 - 114.8 °F @ 14mmHg
Flash Point	No information available
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	C6 H10 O3
Molecular Weight	130.15

10. Stability and reactivity

Reactive Hazard

None known, based on information available

Stability

Air sensitive. Moisture sensitive.

Conditions to Avoid		Incompatible products.						
Incompatible Materia	als	Strong oxidizing agents						
Hazardous Decompo	sition Product	s Carbon monoxide	(CO), Carbon diox	ide (CO ₂)				
Hazardous Polymeri	zation	Hazardous polymerization does not occur.						
Hazardous Reaction	S	None under norma	al processing.					
		11. Toxico	ological info	ormation				
Acute Toxicity								
Product Information Component Informat Toxicologically Syne Products Delayed and immedi	ergistic	No information available as well as chronic effects from short and long-term exposure						
Irritation		No information available						
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		
2,2-Dimethyl-1,3-dioxa ne-4,6-dione	74181-34-3	Not listed Not listed Not listed Not listed Not listed						
Mutagenic Effects		No information available						
Reproductive Effects	5	No information available.						
Developmental Effect	ts	No information available.						
Teratogenicity		No information available.						

STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available
Symptoms / effects,both acute and	No information available

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.

delayed

	13. Disposal considerations				
Mobility Will likely be mobile in the environment due to its water solubility.					
Bioaccumulation/ Accumulation	No information available.				
Persistence and Degradability	Miscible with water Persistence is unlikely based on information available.				

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	Not regulated			
DOT _ <u>TDG</u> IATA_	Not regulated			
	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
2,2-Dimethyl-1,3-dioxane-4,6-dion	74181-34-3	-	-	-
e				

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

Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

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
2,2-Dimethyl-1,3-dioxane-4,6-dion	74181-34-3	-	-	-	-	-		-	-	-
e										

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

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	J	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
2,2-Dimethyl-1,3-dioxane-4,6-dione	74181-34-3	-	-	-

Not applicable

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)
2,2-Dimethyl-1,3-dioxane-4,6- dione	74181-34-3	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	(2012/18/EC) -	Convention (PIC)	Basel Convention (Hazardous Waste)
2,2-Dimethyl-1,3-dioxane-4,6- dione	74181-34-3	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By

Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com

www.thermofisher.com

Revision Date Print Date Revision Summary 30-Mar-2024 30-Mar-2024 New emergency telephone response service provider.

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