

# SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 5

1. Identification						
Product Name	2,3-Butanedione monoxime					
Cat No. :	AC150370000; AC150370025; AC150370250; AC150371000; AC150375000					
CAS No Synonyms	57-71-6 Diacetyl monoxime					
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.					
Details of the supplier of the s	afety data sheet					
<u>Company</u> Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410	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

Tel: (201) 796-7100

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

Hazard Statements

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

	JIIIpositio	SU/IUIOLUIS	ation on Ingre	dients		
Component 2,3-Butanedione, monooxi		<b>CAS No</b> 57-71-6	<b>Weight %</b> >95			
	4.	First-aid r	neasures			
General Advice	If symptoms attendance.	persist, call a ph	ysician. Show this saf	ety data sheet to the doctor in		
Eye Contact	Rinse immeo medical atter		y of water, also under	the eyelids, for at least 15 minutes. G		
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.					
nhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.					
ngestion	Clean mouth with water. Get medical attention. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.					
lost important symptoms and ffects	No information available.					
lotes to Physician	Treat symptomatically					
5. Fire-fighting measures						
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.					
Insuitable Extinguishing Media	No information available					
Flash Point Method -	No information available No information available					
Autoignition Temperature Explosion Limits	No information	on available				
Upper	No data avai					
Lower Sensitivity to Mechanical Impac	No data avai t No information					
Sensitivity to Static Discharge	No informatio					
Specific Hazards Arising from the C Keep product and empty container aw		and sources of ig	nition.			
lazardous Combustion Products litrogen oxides (NOx). Carbon monox Protective Equipment and Precaution As in any fire, wear self-contained bre protective gear.	ons for Firefig	hters		approved or equivalent) and full		
IFPA						
Health 0	Flammab 1	ility	Instability 0	Physical hazards N/A		
	6. Accio	lental rele	ase measure	S		
Personal Precautions	Use persona	I protective equi	pment as required. Ev	acuate personnel to safe areas. Keep		

Environmental Precautions	people away from and upwind of spill/leak. See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.			
Methods for Containment and Clear Up	<b>n</b> Sweep up and shovel into suitable containers for disposal. Do not let this chemical enter the environment.			
	7. Handling and storage			
Handling	Avoid contact with skin and eyes. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance. Pay attention to flashback. No information available.			
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents.			
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	Tight sealing safety goggles.			
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure. Impervious gloves.			
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.			
Hygiene Measures	When using do not eat, drink or smoke. Provide regular cleaning of equipment, work are and clothing.			

## 9. Physical and chemical properties

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Physical State	Powder Solid
Appearance	White
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	74 - 76 °C / 165.2 - 168.8 °F
Boiling Point/Range	185 - 186 °C / 365 - 366.8 °F @ 760 mmHg
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	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C4 H7 N O2

Iolecular Weight 101.1							
10. Stability and reactivity							
Reactive Hazard None known, based on information available							
Stability Stable under recommended storage conditions.							
Conditions to Avoid	Incompatible products.						
Incompatible Materials	Strong oxidizing ag	jents					
Hazardous Decomposition Produc	<b>ts</b> Nitrogen oxides (N	Ox), Carbon mono	oxide (CO), Carbor	n dioxide (CO2)			
Hazardous Polymerization	Hazardous polyme	rization does not o	occur.				
Hazardous Reactions	None under norma	I processing.					
	11. Toxico	logical info	ormation				
Acute Toxicity							
Product Information Component Information Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure							
Irritation	No information available						
Sensitization	No information available						
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen						
Component CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
2,3-Butanedione, 57-71-6 monooxime	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects	No information ava	ilable					
Reproductive Effects	No information ava	ilable.					
Developmental Effects	No information available.						
Teratogenicity	No information ava	ilable.					
STOT - single exposure STOT - repeated exposure							
Aspiration hazard No information available							
Symptoms / effects,both acute an delayed	acute and No information available						
Endocrine Disruptor Information	No information ava	ilable					
Other Adverse Effects	The toxicological p	roperties have not	been fully investig	jated.			
12. Ecological information							

Ecotoxicity Do not empty into drains.

Persistence and Degradability	Persistence is unlikely
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.

2,3-Butanedione, monooxime	1.74

	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	Not regulated			
DOT TDG IATA	Not regulated			
IATA	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
2,3-Butanedione, monooxime	57-71-6	Х	ACTIVE	-

### Legend:

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

X - Listed '-' - Not Listed

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-Butanedione, monooxime	57-71-6	Х	-	200-348-5	Х	Х	Х	Х	Х	KE-03825

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
<b>OSHA</b> - 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
<b>U.S. Department of Transportation</b> 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

### 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-Butanedione, monooxime	57-71-6	Not applicable	Not applicable	Not applicable	Not applicable
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	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
2,3-Butanedione, monooxime	57-71-6	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	24-Dec-2021			
Print Date	24-Dec-2021			
Revision Summary	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