

SAFETY DATA SHEET

Revision Date 24-Dec-2021

Revision Number 5

	1. Identification		
Product Name	Diethyl succinate		
Cat No. :	AC150540000; AC150540010; AC150540050; AC150540051; AC150540250; AC150542500		
CAS No Synonyms	123-25-1 Ethyl succinate		
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	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

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 %
Diethyl succinate	123-25-1	99

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 soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.	
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.	
Ingestion	Clean mouth with water. Get medical attention.	
Most important symptoms and effects Notes to Physician	Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically	

5. Fire-fighting measures

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water mist may be used to cool closed containers.
No information available
90 °C / 194 °F
No information available
No information available
No data available
No data available
t No information available
No information available

Specific Hazards Arising from the Chemical Combustible material. Flammable. 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	Flammability	Instability	Physical hazards
	0	1	0	N/A
		6. Accidental rel	ease measures	
	Precautions ental Precautions	Remove all sources of ignit See Section 12 for addition	ion. Take precautionary measu al Ecological Information.	res against static discharges.
Methods Up	for Containment and Cle		nt material (e.g. sand, silica gel closed containers for disposal.	, acid binder, universal binder, Remove all sources of ignition.
		7. Handling a	and storage	
Handling		Avoid contact with skin and flames, hot surfaces and so		ors/spray. Keep away from open
Storage.		from heat, sparks and flame	I-ventilated place. Keep contair e. Keep containers tightly close npatible Materials. Acids. Base	d in a dry, cool and
	8.		personal protectio	
Exposure	Guidelines		ain any hazardous materials wit ion specific regulatory bodies.	h occupational exposure
Engineeri	ng Measures	None under normal use cor areas.	nditions. Ensure adequate venti	lation, especially in confined
Personal	Protective Equipment			
Eye/fa	ce Protection		e eyeglasses or chemical safety action regulations in 29 CFR 19	
Skin a	and body protection	Wear appropriate protective	e gloves and clothing to preven	t skin exposure.
Respi	ratory Protection	No protective equipment is	needed under normal use cond	ditions.
Hygie	ne Measures	Handle in accordance with	good industrial hygiene and sat	fety practice.
		9. Physical and ch	emical properties	

	y i rigstear and chemical properties
Physical State	Liquid
Appearance	Colorless
Odor	aromatic
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-20 °C / -4 °F
Boiling Point/Range	217 °C / 422.6 °F @ 760 mmHg
Flash Point	90 °C / 194 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available

Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

No data available 1.3 mbar @ 55 °C 6.00 1.040 No information available No data available No information available No information available No information available C8 H14 O4 174.2

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	Acids, Bases, Reducing Agent	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	No information available.	
Hazardous Reactions	None under normal processing.	
	11. Toute de cleating	

11. Toxicological information

Acute	Toxicity

Product Informatior Component Informa Toxicologically Syn Products	tion	No acute toxicity information is available for this product No information available				
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			as a carcinogen.			
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Diethyl succinate	123-25-1	Not listed	Not listed	Not listed	Not listed	Not listed

Component	CASINO	IARC		АССІП	USHA	INIEXICO
Diethyl succinate	123-25-1	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effect	ts	No information available.				
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single expo STOT - repeated ex		None known None known				
Aspiration hazard		No information ava	ailable			

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
Ecotoxicity	
Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
Bioaccumulation/Accumulation	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.
	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	COMBUSTIBLE LIQUID, NOT REGULATED FOR TRANSPORT IN THIS QUANTITY According to 49 CFR §173.150(f)(1), this material should reclassified as NA1993, Combustible Liquid, NOS if it is shipped in bulk.
UN-No Proper Shipping Name Packing Group <u>TDG</u> IATA IMDG/IMO_	NA1993 Combustible liquid, n.o.s. III Not regulated Not regulated Not regulated
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags	
Diethyl succinate	123-25-1	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
Diethyl succinate	123-25-1	Х	-	204-612-0	Х	Х	Х	Х	Х	KE-03762

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			
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 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)
Diethyl succinate	123-25-1	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)
Diethyl succinate	123-25-1	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