

SAFETY DATA SHEET

Creation Date 01-Nov-2010

Revision Date 24-Dec-2021

Revision Number 6

1. Identification

Product Name

AC158760000; AC158760010; AC158760050; AC158760051; AC158760500; AC158762500

CAS No Synonyms

Cat No. :

108-30-5 SAA

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

SUCCINIC ANHYDRIDE

Details of the supplier of the safety data sheet

Company Fisher Scientific Company 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)

Acute oral toxicity	Category 4
Skin Corrosion/Irritation	Category 1 B
Serious Eye Damage/Eye Irritation	Category 1
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1

Label Elements

Signal Word Danger

Hazard Statements

Harmful if swallowed Causes severe skin burns and eye damage May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection In case of inadequate ventilation wear respiratory protection Contaminated work clothing should not be allowed out of the workplace Use only outdoors or in a well-ventilated area Wear respiratory protection Response Immediately call a POISON CENTER or doctor/physician Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical advice/attention Eves IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion Rinse mouth Do NOT induce vomiting Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

Corrosive to the respiratory tract

3. Composition/Information on Ingredients

Component		CAS No	Weight %	
Succinic anhydride		108-30-5	>95	
	4. Firs	st-aid measures		
General Advice	Show this safety or required.	data sheet to the doctor in attendar	ce. Immediate medical attention is	

	Immediate medical attention is required. Keep eye wide open while rinsing.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Ingestion	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects Notes to Physician	Causes burns by all exposure routes. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation Treat symptomatically
Notes to Physician	Teat symptomatically
	5. Fire-fighting measures

Suitable Extinguishing Media	CO $\ensuremath{\scriptscriptstyle 2}$, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical The product causes burns of eyes, skin and mucous membranes.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Thermal decomposition can lead to release of irritating gases and vapors. **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. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 3	Flammability 1	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	Use personal protective ec contact with skin, eyes or c		e personnel to safe areas. Avoid
Environmental Precautions	Should not be released into water system.	o the environment. Do not allow	v material to contaminate ground

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

7. Handling and storage				
Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.			
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Incompatible Materials. Strong oxidizing agents. Alcohols. Amines.			
8. E	Exposure 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	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.			
Personal Protective Equipment				
Eye/face Protection	Tight sealing safety goggles. Face protection shield.			
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.			
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. Physical and chemical properties

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	116 - 120 °C / 240.8 - 248 °F
Boiling Point/Range	261 °C / 501.8 °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	1.3 hPa @ 92 °C
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Decomposes in contact with water
Partition coefficient; n-octanol/w	ater No data available
Autoignition Temperature	No information available
Decomposition Temperature	> 120°C
Viscosity	Not applicable
Molecular Formula	C4 H4 O3
Molecular Weight	100.07

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Moisture sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents, Alcohols, Amines
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Thermal decomposition can lead to release of irritating gases and vapors
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Informa	ation					
Componer		LD50 Oral		LD50 Dermal	LC50 Inhalation	
Succinic anhyo	dride	LD50 = 1510 mg/kg(R	LD50 = 1510 mg/kg (Rat) LD50 > 2000 mg/kg (Rat) Not listed			ot listed
Toxicologically Syn Products	-	No information available				
Delayed and immed	liate effects a	as well as chronic effe	cts from short a	nd long-term expos	sure	
Irritation		Irritating to eyes ar	Irritating to eyes and respiratory system			
Sensitization		May cause sensitiz	May cause sensitization by inhalation and skin contact			
Carcinogenicity		The table below inc	dicates whether e	each agency has liste	ed any ingredient	as a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Succinic anhydride	108-30-5	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ilable			
Reproductive Effect	ts	No information ava	No information available.			
Developmental Effe	cts	No information ava	No information available.			
Teratogenicity		No information ava	No information available.			
STOT - single expos STOT - repeated ex		None known None known				
Aspiration hazard		No information ava	No information available			
Symptoms / effects delayed	s,both acute a	of the hands and fe Product is a corros Possible perforatio	d Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation			
Endocrine Disrupto	r Informatior	n No information ava	No information available			
Other Adverse Effe	cts	Tumorigenic effects	Tumorigenic effects have been reported in experimental animals.			
		12. Ecolo	ogical info	mation		
Ecotoxicity			0			

Ecotoxicity

Do not empty into drains. Reacts with water so no ecotoxicity data for the substance is available.

Persistence and Degradability Persistence is unlikely based on information available.

Bioaccumulation/Accumulation No information available.

Mobility

Is not likely mobile in the environment.

Component	log Pow
Succinic anhydride	2.44

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		
UN-No	UN3261	
Proper Shipping Name	Corrosive solid, acidic, organic, n.o.s.	
Technical Name	Succinic anhydride	
Hazard Class	8	
Packing Group	П	
TDG		
UN-No	UN3261	
Proper Shipping Name	Corrosive solid, acidic, organic, n.o.s.	
Hazard Class	8	
Packing Group	II	
IATA		
UN-No	UN3261	
Proper Shipping Name	Corrosive solid, acidic, organic, n.o.s.	
Hazard Class	8	
Packing Group	П	
IMDG/IMO		
UN-No	UN3261	
Proper Shipping Name	Corrosive solid, acidic, organic, n.o.s.	
Hazard Class	8	
Packing Group	<u> </u>	
	15. Regulatory information	

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Succinic anhydride	108-30-5	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

Not applicable TSCA 12(b) - Notices of Export

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

······											
Succinic anhydride	108-30-5	Х	-	203-570-0	Х	Х	Х	Х	Х	KE-10664	
KECL - NIER number or KE number (h	ttp://ncis.nier.	go.kr/en/m	ain.do)								
U.S. Federal Regulations											
SARA 313	Not app	olicable									
SARA 311/312 Hazard Categories	s See se	ction 2 for	r more ir	nformation							
CWA (Clean Water Act)	Not app	olicable									
Clean Air Act	Not app	Not applicable									
OSHA - Occupational Safety and Health Administration	Not app	Not applicable									
CERCLA	Not applicable										
California Proposition 65	This pro	This product does not contain any Proposition 65 chemicals.									
U.S. State Right-to-Know Regulations	Not app	Not applicable									
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	on N N N	N N									
U.S. Department of Homeland Security	This pro	This product does not contain any DHS chemicals.									
Other International Regulations											
Mexico - Grade	No info	rmation a	vailable								

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Succinic anhydride	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-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)
Succinic anhydride	108-30-5	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)
Succinic anhydride	108-30-5	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Creation Date Revision Date Print Date Revision Summary	01-Nov-2010 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