

SAFETY DATA SHEET

Creation Date 23-Sep-2009

Revision Date 29-Mar-2024

Revision Number 4

1. IdentificationProduct NameAzelaic acidCat No. :42587CAS No
Synonyms123-99-9
Nonanedioic acidRecommended Use
Uses advised againstLaboratory chemicals.
Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

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

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %		
Azelaic acid		123-99-9	98		
	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	None reasonably foreseeable.				
effects Notes to Physician	Treat symptomatically				
	5. Fi	re-fighting measures			

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point	215 °C / 419 °F
Method -	No information available
Autoignition Temperature Explosion Limits	Not applicable
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical Thermal decomposition can lead to release of irritating gases and vapors. 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.

<u>NFPA</u> Health 1	Flammability 1	Instability 0	Physical hazards N/A	
	6. Accidental re	lease measures		
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.			
Environmental Precautions	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. Avoid dust formation. Up

	7. Handling and storage
Handling Ensure adequate ventilation. Wear personal protective equipment/face pr contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid of	
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Bases. Reducing Agent.
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

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Physical State	Powder Solid
Appearance	Off-white
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	98 - 103 °C / 208.4 - 217.4 °F
Boiling Point/Range	237 °C / 458.6 °F @ 20 hPa
Flash Point	215 °C / 419 °F
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 hPa @ 20 °C
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	2.4 g/l water (20°C)
Partition coefficient; n-octanol/wa	ater No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C9 H16 O4
Molecular Weight	188.22

10. Stability and reactivity								
Reactive Hazard		None known, bas	None known, based on information available					
Stability		Stable under norr	Stable under normal conditions.					
Conditions to Avoid	ł	Incompatible proc	ducts.					
Incompatible Mater	ials	Bases, Reducing	Agent					
Hazardous Decomp	osition Prod	ucts Carbon monoxide	e (CO), Carbon dic	xide (CO ₂)				
Hazardous Polymer	rization	Hazardous polym	erization does not	occur.				
Hazardous Reaction	ns	None under norm	al processing.					
		11. Toxic	ological inf	ormation				
Acute Toxicity								
Product Information Oral LD50 Dermal LD50 Mist LC50 Component Informa		Based on ATE da Based on ATE da	No acute toxicity information is available for this product Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.					
Componer		LD50 Oral		LD50 Dermal		Inhalation		
Azelaic aci		LD50 > 5000 mg/kg (Rat)	Not listed		ot listed		
L Toxicologically Syn Products Delayed and immed	-	No information av as well as chronic eff		nd long-term expo	osure_]		
Irritation		No information av	vailable					
Irritation Sensitization		No information av						
		No information av	vailable	each agency has lis	ted any ingredient	as a carcinogen.		
Sensitization Carcinogenicity	CAS No	No information av	vailable		ted any ingredient	as a carcinogen.		
Sensitization	CAS No 123-99-9	No information av The table below in	vailable	each agency has lis ACGIH Not listed		-		
Sensitization Carcinogenicity Component		No information av The table below in	vailable ndicates whether of NTP Not listed	ACGIH	OSHA	Mexico		
Sensitization Carcinogenicity Component Azelaic acid	123-99-9	No information av The table below in IARC Not listed	vailable ndicates whether o <u>NTP</u> Not listed vailable	ACGIH	OSHA	Mexico		
Sensitization Carcinogenicity Component Azelaic acid Mutagenic Effects	123-99-9 ts	No information av The table below in IARC Not listed No information av	vailable ndicates whether on <u>NTP</u> Not listed vailable vailable.	ACGIH	OSHA	Mexico		
Sensitization Carcinogenicity Component Azelaic acid Mutagenic Effects Reproductive Effect	123-99-9 ts	No information av The table below in IARC Not listed No information av No information av	vailable ndicates whether o <u>NTP</u> Not listed vailable vailable. vailable.	ACGIH	OSHA	Mexico		
Sensitization Carcinogenicity Component Azelaic acid Mutagenic Effects Reproductive Effect Developmental Effect	123-99-9 ts ects sure	No information av The table below in IARC Not listed No information av No information av	vailable ndicates whether o <u>NTP</u> Not listed vailable vailable. vailable.	ACGIH	OSHA	Mexico		
Sensitization Carcinogenicity Component Azelaic acid Mutagenic Effects Reproductive Effect Developmental Effect Teratogenicity STOT - single exposed	123-99-9 ts ects sure	No information av The table below in IARC Not listed No information av No information av No information av No information av No information av	vailable ndicates whether e <u>NTP</u> Not listed vailable vailable. vailable. vailable.	ACGIH	OSHA	Mexico		
Sensitization Carcinogenicity Component Azelaic acid Mutagenic Effects Reproductive Effect Developmental Effect Teratogenicity STOT - single exposision STOT - repeated ex Aspiration hazard	123-99-9 ts ects sure posure	No information av The table below in IARC Not listed No information av No information av No information av No information av No information av None known None known	vailable ndicates whether e <u>NTP</u> Not listed vailable vailable. vailable. vailable.	ACGIH	OSHA	Mexico		
Sensitization Carcinogenicity Component Azelaic acid Mutagenic Effects Reproductive Effect Developmental Effect Teratogenicity STOT - single exposistor - repeated ex Aspiration hazard Symptoms / effects	123-99-9 ts ects sure posure	No information av The table below in IARC Not listed No information av No information av No information av No information av None known None known None known None known	vailable ndicates whether e <u>NTP</u> Not listed vailable vailable. vailable. vailable. vailable	ACGIH	OSHA	Mexico		

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. Component log Pow Azelaic acid 1.57

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	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
Azelaic acid	123-99-9	Х	ACTIVE	-

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 Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

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
Azelaic acid	123-99-9	Х	-	204-669-1	Х	Х	Х	Х	Х	KE-26092

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):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν
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

Not applicable

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)
Azelaic acid	123-99-9	-	-	-

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)
Azelaic acid	123-99-9	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) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Azelaic acid	123-99-9	Not applicable	Not applicable	Not applicable	Annex I - Y34

16. Other information

Prepared By

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

Creation Date Revision Date Print Date Revision Summary 23-Sep-2009 29-Mar-2024 29-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