

Material Safety Sheet

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1- Product Information

Product Name Azelaic Acid
Synonyms: nonanedioic acid; Anchoic Acid; NSC 19493; ZK 62498

Section 2- Composition/Information on Ingredient

Classification of the Substance or Mixtures

Skin Corrosion/Irritation, Category 2

Serious Eye Damage/Eye Irritation, Category 2

Label Elements



GHS Signal Word: Warning

GHS Hazard Phrases:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

GHS Precaution Phrases:

P264: Wash {hands} thoroughly after handling.

P280: Wear {protective gloves/protective clothing/eye protection/face protection}.

GHS Response Phrases:

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

P332+313: If skin irritation occurs, get medical advice/attention.

P337+313: If eye irritation persists, get medical advice/attention.

P362+364: Take off contaminated clothing and wash it before reuse.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

Adverse Human Health Effects and Symptoms:	<p>Causes serious eye irritation.</p> <p>Causes skin irritation.</p> <p>Material may be irritating to the mucous membranes and upper respiratory tract.</p> <p>May be harmful by inhalation, ingestion, or skin absorption.</p> <p>May cause respiratory system irritation.</p> <p>To the best of our knowledge, the toxicological properties have not been thoroughly investigated.</p>			
Section 3 - Hazards Identification				
CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
123-99-9 CM1980000	Azelaic Acid	100.0 %	204-669-1 NA	Eye Damage 2: H319 Skin Corr. 2: H315
Section 4- First Aid Measures				
Description of first aid measures				
In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.			
In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.			
In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.			
In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.			
Most important symptoms and health impact				
To the best of our knowledge, this chemical, physical and toxic property has not been fully studied.				
Advice to protect rescuers	No date			

Section 5- Fire Fighting Measures

Suitable Extinguishing Media	carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.
Unsuitable Extinguishing Media	A solid water stream may be inefficient.
Special hazard	No data available.
Flash Pt:	No data.
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	No data.
Fire Fighting Instructions:	As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6 - Accidental Release Measures

Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
Protective Equipment and	As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or
Emergency Procedures:	respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
Methods and Material For	Contain spill and collect, as appropriate.
Containment and Cleaning Up:	Transfer to a chemical waste container for disposal in accordance with local regulations.

Section 7 - Handling and Storage

Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.
in Handling:	Avoid prolonged or repeated exposure.
Precautions To Be Taken	Keep container tightly closed.
in Storing:	Store in accordance with information listed on the product insert.

Section 8 - Exposure Controls / Personal Protection

Exposure Parameters:

Exposure Controls:

Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control Airborne levels below recommended exposure limits.

Personal protection equipment:

Eye/protection: Safety glasses

Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

Respiratory Equipment (Specify Type): NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash thoroughly after handling.

No data available

Section 9- Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance and properties A crystalline solid

Color White

pH: No data

Melting Point: No data

Boiling Point: No data

Evaporation Rate: No data

Flammability (solid, gas): No data

Explosive Limits: No data

Vapor Pressure (vs. Air or mm Hg): No data

Vapor Density (vs. Air = 1): No data

Specific Gravity (Water = 1): No data

Solubility in Water: No data

Solubility Notes: ~0.1 mg/ml in PBS (pH 7.2); ~10 mg/ml in EtOH, DMSO, & DMF;

Octanol/Water Partition No data

Molecular Formula & Weight: C₉H₁₆O₄ 188.2

Section 10 - Stability and Reactivity

Reactivity	No data
Chemical Stability	Unstable [] Stable [X]
Stability Note(s):	Stable if stored in accordance with information listed on the product insert.
Polymerization:	Will occur [] Will not occur [X]
Conditions To Avoid:	No data available.
Incompatibility - Materials	bases
To Avoid:	oxidizing agents reducing agents
Hazardous Decomposition or Byproducts:	carbon dioxide carbon monoxide
Other decomposition products	No data available

Section 11 - Toxicological Information

Information on	The toxicological effects of this product have not been thoroughly studied.
Toxicological Effects:	Azelaic Acid - Toxicity Data: Oral LD50 (rat): >5 gm/kg;
Chronic Toxicological Effects	Azelaic Acid - Investigated as a primary irritant. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here See actual entry in RTECS for complete information. Azelaic Acid RTECS Number: CM1980000

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
123-99-9	Azelaic Acid	n.a.	n.a.	n.a.	n.a.

Section 12 - Ecological Information

Toxicity:	Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.
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Persistence and Degradability:	No data available.			
Bioaccumulative Potential:	No data available.			
Mobility in Soil:	No data available.			
Result evaluation of PBT and vPvB	No data available.			
Other Adverse effects	No data			
Section 13 - Disposal Considerations				
Waste Disposal Method:	Dispose in accordance with local, state, and federal regulations.			
Section 14 - Transport Information				
LAND TRANSPORT (US DOT):				
DOT Proper Shipping Name:	Not dangerous goods.			
DOT Hazard Class:				
UN/NA Number:				
LAND TRANSPORT (European ADR/RID):				
ADR/RID Shipping Name:	Not dangerous goods.			
UN Number:				
Hazard Class:				
AIR TRANSPORT (ICAO/IATA):				
ICAO/IATA Shipping Name:	Not dangerous goods.			
Additional Transport Information:	Not dangerous goods.			
Section 15 – Regulatory Information				
EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists				
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
123-99-9	Azelaic Acid	No	No	No
CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists		
123-99-9	Azelaic Acid	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No		
Regulatory Information	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)			
Statement:	No.1272/2008.			