

SAFETY DATA SHEET

Creation Date 06-Nov-2010

Revision Date 23-Jun-2022

Revision Number 6

Product Name	3,5-Dinitrosalicylic acid		
Cat No. :	AC156440000; AC156440010; AC156440050; AC156441000; AC156445000		
CAS No	609-99-4		
Synonyms	2-Hydroxy-3,5-dinitrobenzoic acid		
Recommended Use	Laboratory chemicals.		
Uses advised against	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 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 Serious Eye Damage/Eye Irritation Category 4 Category 1

Label Elements

Signal Word Danger

Hazard Statements Harmful if swallowed Causes serious eye damage



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Disposal

Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %	
Benzoic acid, 2-hydroxy-3,5-dinitro-		609-99-4	>95	
	4.	First-aid measures		
General Advice	If symptoms	persist, call a physician.		
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. If skin irritation persists, call a physician.			
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.			
Ingestion	Clean mouth symptoms or	with water and drink afterwards plent cur.	y of water. Get medical attention if	
Most important symptoms and effects	None reasonably foreseeable. Causes severe eye damage. 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			
Notes to Physician				
	5. Fi	re-fighting measures		
Suitable Extinguishing Media	Water spray,	carbon dioxide (CO2), dry chemical,	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	No information available
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

Nitrogen oxides (NOx). 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.

NFPA Health 2	Flammability	Instability	Physical hazards		
-	·	lease measures			
Personal Precautions	Use personal protective en formation.	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust			
Methods for Containment and Clea Up	an Sweep up and shovel into containers for disposal.	suitable containers for disposal.	Keep in suitable, closed		
	7. Handling	and storage			
Handling		n, or on clothing. Wear personal p te ventilation. Avoid ingestion ar			
Storage.		esed in a dry, cool and well-ventil g agents. Strong bases. Strong r			
8. Exposure controls / personal protection					
Exposure Guidelines		tain any hazardous materials wit gion specific regulatory bodies.	n occupational exposure		
Engineering Measures	1	on, especially in confined areas.	Ensure that eyewash stations		
Personal Protective Equipment					
Eye/face Protection	Tight sealing safety goggle	es. Face protection shield.			
Skin and body protection	Wear appropriate protectiv	ve gloves and clothing to prevent	skin exposure.		
Respiratory Protection	Follow the OSHA respirate	or regulations found in 29 CFR 1	910.134 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	land	chem	ica	l properti	ies
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Physical State	Powder Solid
Appearance	Yellow
Odor	No information available
Odor Threshold	No information available
рН	No information available 1.3-1.8 (@ 20) 10 g/L (20°C)
Melting Point/Range	170 - 174 °C / 338 - 345.2 °F
Boiling Point/Range	No information available
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	Moderately soluble
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	275 °C
Viscosity	Not applicable
Molecular Formula	C7 H4 N2 O7
Molecular Weight	228.12

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat.
Incompatible Materials	Strong oxidizing agents, Strong bases, Strong reducing agents
Hazardous Decomposition Product	S Nitrogen oxides (NOx), 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 Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzoic acid, 2-hydroxy-3,5-dinitro-	LD50 = 860 mg/kg (Rat)	Not listed	Not listed
Toxicologically Synergistic Products	No information available		
Delayed and immediate effects	as well as chronic effects from	n short and long-term exposure	<u>e</u>

Irritation		Irritating to eyes, respiratory system and skin				
Sensitization		No information available				
Carcinogenicity		The table below in	ndicates whether ea	ach agency has lis	ted any ingredient	as a carcinoge
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Benzoic acid, 2-hydroxy-3,5-dinitro-	609-99-4	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information av	ailable			

Reproductive Effects	
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	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 Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity Do not empty into drains.

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

Component	log Pow
Benzoic acid, 2-hydroxy-3,5-dinitro-	1.71

	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	
<u>DOT</u> _ <u>TDG</u> IATA_	Not regulated	
ΙΑΤΑ	Not regulated	
IMDG/IMO	Not regulated	
15. Regulatory information		

United States of America Inventory

1	Component	CAS No	TSCA	TSCA Inventory notification -	TSCA - EPA Regulatory

			Active-Inactive	Flags
Benzoic acid,	609-99-4	Х	ACTIVE	-
2-hydroxy-3,5-dinitro-				

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

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

China, X = listed, Australia, U.S.A. (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (KECL), China (IECSC), Japan (ENCS), Philippines (PICCS), Taiwan (TCSI), Japan (ISHL), New Zealand (NZIoC), Japan (ISHL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Benzoic acid,	609-99-4	Х	-	210-204-3	Х	-		Х	Х	KE-20466
2-hydroxy-3,5-dinitro-										

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 accordin	ng to EU REACH Not applicable
Component	CAS No REACH (1907/2006) - REACH (1907/2006) - REACH Regulation (EC

		Annex XIV - Substances Subject to Authorization	· · · · J· · · · J	1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Benzoic acid, 2-hydroxy-3,5-dinitro-	609-99-4	_	-	-

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)
Benzoic acid, 2-hydroxy-3,5-dinitro-	609-99-4	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)
Benzoic acid, 2-hydroxy-3,5-dinitro-	609-99-4	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	06-Nov-2010
Revision Date	23-Jun-2022
Print Date	23-Jun-2022
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