

SAFETY DATA SHEET

Creation Date 20-Aug-2015

Revision Date 25-Dec-2021

Revision Number 5

1. Identification

Product Name

Phenosafranin

Cat No. :	AC339340000; AC339340010; AC339340050
CAS No	81-93-6
Synonyms	3,7-Diamino-5-phenylphenazinium chloride; C.I. 50200
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>

0-1 N-

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)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Combustible dust

Category 2 Category 2 Category 3

Yes

Label Elements

Signal Word Warning

Hazard Statements

May form combustible dust concentrations in air

Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

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

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

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 %
3,7-Diamino-5-phenylphenazinium chloride	81-93-6	>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	Get medical attention. Wash off immediately with plenty of water for at least 15 minutes.		
Inhalation	Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.		
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.		
Most important symptoms and effects	None reasonably foreseeable.		

Notes to Physician

Treat symptomatically

5. Fire-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	Not applicable
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

Fine dust dispersed in air may ignite.

Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen chloride gas.

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 2	Flammability 1	Instability 0	Physical hazards N/A		
		6. Accidental rel	ease measures			
Personal	Precautions	Use personal protective eq formation.	uipment as required. Ensure a	dequate ventilation. Avoid dust		
Environm	nental Precautions	Should not be released into Information.	the environment. See Sectior	12 for additional Ecological		
Methods Up	Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closedUpcontainers for disposal.					
	7. Handling and storage					
Handling		Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.				
Storage.		Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.				
8. Exposure controls / personal protection						
Exposure	Guidelines		ain any hazardous materials w ion specific regulatory bodies.	th occupational exposure		
Engineer	ing 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.
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

Powder Solid

Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

Green No information available No information available No information available >300 °C / 572 °F No information available No information available Not applicable No information available No data available No data available No information available Not applicable No information available Soluble in water No data available Not applicable No information available Not applicable C18 H15 CI N4

10. Stability and reactivity

322.8

Reactive Hazard	None known, based on information available			
Stability	Stable under normal conditions.			
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.			
Incompatible Materials	Strong oxidizing agents			
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂), Hydrogen chloride gas				
Hazardous Polymerization	Hazardous polymerization does not occur.			
Hazardous Reactions	ctions None under normal processing.			
	11. Toxicological information			
Acute Toxicity				
Product Information Component Information	No acute toxicity information is available for this product			
Toxicologically Synergistic	No information available			

Products 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.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
3,7-Diamino-5-phenylp	81-93-6	Not listed	Not listed	Not listed	Not listed	Not listed
henazinium chloride Mutagenic Effects		No information available				
		NO INICITIATION AVA				
Reproductive Effect	is	No information available.				
Developmental Effe	cts	No information ava	No information available.			
Teratogenicity		No information ava	No information available.			
STOT - single expos STOT - repeated exp	sure posure	Respiratory system None known				
Aspiration hazard		No information ava	ailable			
Symptoms / effects delayed	,both acute and	No information ava	ailable			
Endocrine Disrupto	r Information	No information available				
Other Adverse Effect	cts	The toxicological properties have not been fully investigated.				
		12. Ecolo	ogical infor	mation		
<u>Ecotoxicity</u> Do not empty into drains.						
Persistence and De	gradability	Soluble in water Persistence is unlikely based on information available.				
Bioaccumulation/ A	ccumulation	No information available.				
Mobility		Will likely be mobile in the environment due to its water solubility.				
		13. Dispo	sal conside	erations		
Waste Disposal Met	I 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.					
			sport infor	mation		
DOT		Not regulated				
_ <u>TDG</u> IATA		Not regulated Not regulated				
IMDG/IMO		Not regulated				
		Ŭ	latory infor	mation		
United States of Am	erica Inventorv					

United States of America Inventory

Component C	AS No TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
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3,7-Diamino-5-phenylphenazinium	81-93-6	-	-	-
chloride				

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
3,7-Diamino-5-phenylphenazinium	81-93-6	-	-	201-387-0	-	-		-	Х	-
chloride										

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 U.S. Department of Homeland Security	N N N 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	Ozone Depletion	Restriction of

			Pollutant	Potential	Hazardous Substances (RoHS)
3,7-Diamino-5-phenylphenazi nium chloride	81-93-6	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)
3,7-Diamino-5-phenylphenazi nium chloride	81-93-6	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By

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Creation Date	20-Aug-2015
Revision Date	25-Dec-2021
Print Date	25-Dec-2021
Revision Summary	Not applicable.

Disclaimer

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End of SDS