

SAFETY DATA SHEET

Creation Date 22-Sep-2009

Revision Date 26-Dec-2021

Revision Number 5

1. Identification

Product Name

Rhodamine 6G

Cat No.: AC419020000; AC419020010; AC419020050; AC419025000 CAS No 989-38-8 Synonyms C.I. 45160; Basic Red 1; 9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride;

Recommended Use Uses advised against

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

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 3
Serious Eye Damage/Eye Irritation	Category 1
Skin Sensitization	Category 1B

Label Elements

Signal Word Danger

Hazard Statements Toxic if swallowed

May cause an allergic skin reaction

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

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

Contaminated work clothing should not be allowed out of the workplace

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

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: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Compon	ent	CAS No	Weight %
C.I. Basic red 1		989-38-8	>95
	4.	First-aid measures	
General Advice	Show this sa required.	afety data sheet to the doctor in attend	ance. Immediate medical attention is
Eye Contact In the case of contact with eyes, rinse immediately with plenty of water and seek madvice.			with plenty of water and seek medical
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.			ast 15 minutes. Immediate medical
Inhalation Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-n method if victim ingested or inhaled the substance; give artificial respiration with the a pocket mask equipped with a one-way valve or other proper respiratory medical devi Immediate medical attention is required.		; give artificial respiration with the aid of a	
Ingestion Do NOT ind		uce vomiting. Call a physician or poisc	on control center immediately.

Most important symptoms and effects Notes to Physician	Causes severe eye damage. 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 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	No information available		
Upper	No data available		
Lower	No data available		
Sensitivity to Mechanical Impac			
Sensitivity to Static Discharge	No information available		

Specific Hazards Arising from the Chemical

Do not allow run-off from fire-fighting to enter drains or water courses.

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. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u>	Health 3	Flammability 0	Instability 0	Physical hazards N/A	
		6. Accidental rel	ease measures		
Personal Precautions		Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.			
Environmental Precautions		contaminate ground water	ater or sanitary sewer system. system. Prevent product from e cant spillages cannot be contai	entering drains. Local authorities	

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. Avoid dust formation. eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical			
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents.		
8. Exposure controls / personal protection			
Exposure Guidelines This product does not contain any hazardous materials with occupational e 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	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	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

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Physical State	Powder Solid
Appearance	Red brown
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	229.4 °C / 444.9 °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	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C28 H31 CI N2 O3
Molecular Weight	479.01

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	s Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂), Hydrogen chloride gas
Hazardous Polymerization	Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information	.					
Component Information	-					
Componer		LD50 Oral	LD50 Oral LD50 Dermal		LC50 I	nhalation
C.I. Basic red 1		250 mg/kg bw (Rat)		Not listed		t listed
Toxicologically Syn	ergistic	No information ava	ailable			
Products	-					
Delayed and immed	liate effects as v	vell as chronic effe	cts from short an	d long-term expo	sure	
Irritation		CAUSES (SEVER	E) EYE BURNS			
O		No information ave	lahla			
Sensitization		No information ava	allable			
Carcinogenicity		The table below in	dicates whether e	ach agency has lis	ted any ingredient a	as a carcinoden
Carennegementy				ten ageney has has	ied any ingredient t	as a careinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
C.I. Basic red 1	989-38-8	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	No information available			
Reproductive Effec	ts	No information available.				
•						
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
relatogenicity		וויטווומווטוו מימוומטול.				
STOT - single expo	sure	None known				
STOT - repeated ex		None known				
Aspiration hazard		No information available				
Symptoms / effects	s,both acute and	Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling				
delayed		of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing				
Endocrine Disruptor Information		No information available				
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.				

12. Ecological information

Ecotoxicity Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
C.I. Basic red 1	EC50 = 0.023 mg/l, 72h	Not listed	Not listed	EC50 = 0.16 mg/l, 48h
	Pseudokirchneriella			Daphnia magna
	subcapitata			
Persistence and Degrada	ability Soluble in wa	ter Persistence is unlikely	based on information avai	lable.
Bioaccumulation/ Accun	nulation No information	on available.		
Mobility	Will likely be	mobile in the environment	due to its water solubility.	
Component			log Pow	
	C.I. Basic red 1		0.1	

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	UN2811
Proper Shipping Name	TOXIC SOLIDS, ORGANIC, N.O.S.
Hazard Class	6.1
Packing Group	III
TDG	
UN-No	UN2811
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.
Hazard Class	6.1
Packing Group	III
<u>IATA</u>	
UN-No	UN2811
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.
Hazard Class	6.1
Packing Group	III
IMDG/IMO	
UN-No	UN2811
Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S.
Hazard Class	6.1
Packing Group	
	15. Regulatory information
	ren regardery mormation

United States of America Inventory

	Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Γ	C.I. Basic red 1	989-38-8	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

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
C.I. Basic red 1	989-38-8	Х	-	213-584-9	Х	Х	Х	Х	Х	KE-06983;K
										E-13521

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Component	CAS No	Weight %	SARA 313 - Threshold Values %
C.I. Basic red 1	989-38-8	>95	1.0

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

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
C.I. Basic red 1	Х	Х	Х	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland	This product does not contain any DHS chemicals.
Security	

Other International Regulations

Mexico - Grade

No information available

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	
C.I. Basic red 1	-	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)
C.I. Basic red 1	989-38-8	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)
C.I. Basic red 1	989-38-8	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information

Prepared By

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Creation Date	22-Sep-2009
Revision Date	26-Dec-2021
Print Date	26-Dec-2021
Revision Summary	SDS sections updated. 2. 3. 9. 11. 12. 14. 16.

Disclaimer

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