

Material Safety Data Sheet

HAZARD WARNINGS	RISK PHRASES	PROTECTIVE CLOTHING
×	Harmful compound, minimize exposure. POSSIBLE CARCINOGEN. MINIMIZE EXPOSURE.	

Section I. C	hemical Product and Company Identificat	ion	
Chemical Name	Rhodamine 6G [lon association reagent for photometric and fluorim	netric analys	is]
Catalog Number	A5103	Supplier	TCI America 9211 N. Harborgate St.
Synonym	Xanthylium, 9-[2-(ethoxycarbonyl)phenyl]-3,6-bis (ethylamino)-2,7-dimethyl-, chloride (1:1) (CA INDEX NAME) CI# 45160; Basic Red 1		Portland OR 1-800-423-8616
Chemical Formula	C ₂₈ H ₃₁ CIN ₂ O ₃		
CAS Number	989-38-8	In case of Emergency Call	Chemtrec® (800) 424-9300 (U.S.) (703) 527-3887 (International)

Section II. Composition a	nd Informa	tion on In	gredients	
Chemical Name	CAS Number	Percent (%)	TLV/PEL	Toxicology Data
Rhodamine 6G [ton association reagent for photometric and fluorimetric analysis]	989-38-8	Min. 98.0 (HPLC,T)	This chemical is classified as a possible carcinogen. There is no acceptable exposure limit for a carcinogen.	Mouse LD ₅₀ (intraperitoneal) 6150

Section III. Hazards Identification

Acute Health Effects

Harmful if ingested or inhaled. Minimize exposure to this material. Severe overexposure can result in injury or death. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

Chronic Health Effects

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Tumorigenic Effects. Rat TDLo Oral 7725 mg/kg/2 years continuous

TOXIC Effects:

Tumorigenic - Equivocal tumorigenic agent by RTECS criteria

Skin and Appendages - Tumors

Rat TDLo Subcutaneous 100 mg/kg/1 year intermittent

TOXIC Effects:

Tumorigenic - Equivocal tumorigenic agent by RTECS criteria

Tumorigenic - Tumors at site of application Rat TDLO Oral 9012.5 mg/kg/103 weeks continuous

TOXIC Effects:

Tumorigenic - Equivocal tumorigenic agent by RTECS criteria

Endocrine - Adrenal cortex tumors

DEVELOPMENTAL TOXICITY: Reproductive Effects.

Mouse TDLo Intraperitoneal 2 mg/kg, female 7-10 days of pregnancy TOXIC Effects:

Effects on Fertility - Post-implantation mortality

Effects on Embryo or Fetus - Fetotoxicity Effects on Embryo or Feus - Fetal death

Mouse TDLo Intraperitoneal 2 mg/kg, female 7-10 days of pregnancy TOXIC Effects:

Effects on Embryo or Fetus - Other Effects to embryo Specific Developmental Abnormalities - Musculoskeletal system

Mouse TDLo Intraperitoneal 4 mg/kg, female 7-10 days of pregnancy

TOXIC Effects:

Effects on Embryo or Fetus

Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

Section IV. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. Get medical attention.

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.

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Emergency phone number (800) 424-9300

Skin Contact

Inhalation

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Ingestion	[Ion association reagent for photometric and fluorimetric analysis] INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.			
Section V.	Fire and Explosion Data			
Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.	
Flash Points	Not available.	Flammable Limits	Not available.	
Combustion Products	These products are toxic carbon oxides (CO WARNING: Highly toxic HCl gas is produced), halogenated compounds.	
Fire Hazards	Not available.			
Explosion Hazards	Risks of explosion of the product in presence Risks of explosion of the product in presence			
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam Consult with local fire authorities before atter		erations.	
Section VI.	Accidental Release Measures	5		
Spill Cleanup Instructions	Harmful material. Possibly carcinogenic mat Use a shovel to put the material into a co contaminated surfaces with copious amou disposal.	onvenient waste disposal conti		
Section VII.	Handling and Storage			
Handling and Storage Information	HARMFUL. POSSIBLE CARCINOGEN. Ke the container and store in a dry, cool place.	ep away from heat. Mechanical Avoid excessive heat and light.	exhaust required. When no Do not breathe dust.	t in use, tightly seal
Section VIII.	Exposure Controls/Personal	Protection		
Engineering Controls	Use process enclosures, local exhaust venti exposure limits. If user operations generate below the exposure limit.			
Personal Protection		Splash goggles. Lab coat. Dust respirator. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. Be sure to use a MSHA/NIOSH approved respirator or equivalent.		
Exposure Limits	This chemical is classified as a possible card	cinogen. There is no acceptable	exposure limit for a carcinoge	en.
Section IX.	Physical and Chemical Prope	erties		
Physical state @ 20°C	Solid. (Red Crystalline powder)	Solubility	Soluble in water, ethano	ol.
Specific Gravity	Not available.			
Molecular Weight	479.01	Partition Coefficient	Not available.	
Boiling Point	Not available.	Vapor Pressure	Not applicable.	
Melting Point	Not available.	Vapor Density	Not available.	
Refractive Index	Not available.	Volatility	Not available.	
Critical Temperature	Not available.	Odor	Not available.	
Viscosity	Not available.	Taste	Not available.	
Section X.	Stability and Reactivity Data			
Stability	This material is stable if stored under proper	conditions. (See Section VII for	instructions)	
Conditions of Instability	Avoid excessive heat and light.			
Incompatibilities	Reactive with strong oxidizing agents.			

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	[lon accordation reagent for photometric and fluorimetric analysis]	

[lon association reagent for photometric and fluorimetric analysis]			
Section XI.	Toxicological Information		
RTECS Number	DH0175000		
Routes of Exposure	Eye Contact. Ingestion. Inhalation.		
Toxicity Data	Rat LD ₅₀ (oral) 400 mg/kg Mouse LD ₅₀ (intraperitoneal) 6150 ug/kg		
Chronic Toxic Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Tumorigenic Effects. Rat TDLo Oral 7725 mg/kg/2 years continuous TOXIC Effects: Tumorigenic - Equivocal tumorigenic agent by RTECS criteria Skin and Appendages - Tumors Rat TDLo Subcutaneous 100 mg/kg/1 year intermittent TOXIC Effects: Tumorigenic - Equivocal tumorigenic agent by RTECS criteria Tumorigenic - Iumors at site of application Rat TDLO Oral 9012.5 mg/kg/103 weeks continuous TOXIC Effects: Tumorigenic - Equivocal tumorigenic agent by RTECS criteria Endocrine - Adrenal cortex tumors DEVELOPMENTAL TOXICITY: Reproductive Effects. Mouse TDLo Intraperitoneal 2 mg/kg, female 7-10 days of pregnancy TOXIC Effects: Effects on Fertility - Post-implantation mortality Effects on Embryo or Feus - Fetotoxicity Effects on Embryo or Feus - Fetotoxicity Effects on Embryo or Feus - Fetotoxicity Effects on Embryo or Feus - Other Effects to embryo Specific Developmental Abnormalities - Musculoskeletal system Mouse TDLo Intraperitoneal 4 mg/kg, female 7-10 days of pregnancy TOXIC Effects: Effects on Embryo or Feus - Other Effects to embryo Specific Developmental Abnormalities - Musculoskeletal system Mouse TDLo Intraperitoneal 4 mg/kg, female 7-10 days of pregnancy TOXIC Effects:		

Section XII.	Ecological Information	
Ecotoxicity	Not available.	
Environmental Fate	Not available.	

Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

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Section XIII. Disposal Considerations

Acute Toxic Effects

Effects on Embryo or Fetus

Waste Disposal

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

Section XIV.	Transport Information
DOT Classification	Not a DOT controlled material (United States).
PIN Number	Not applicable.
Proper Shipping Name	Not applicable.
Packing Group (PG)	Not applicable.
DOT Pictograms	

ı	Section XV. Of	ther Regulatory Information and Pictograms
	TSCA Chemical Inventory (EPA)	This compound is ON the EPA Toxic Substances Control Act (TSCA) inventory list.
	WHMIS Classification (Canada)	On DSL
	EINECS Number (EEC)	213-584-9
	EEC Risk Statements	R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R45- May cause cancer.
	Japanese Regulatory Data	ENCS No. 5-1947

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[lon association reagent for photometric and fluorimetric analysis]

Section XVI. Other Information

Version 1.0 Validated on 2/10/2009. Printed 2/10/2009.

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated MSDS sheets for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local regulations.

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