

This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

Revision date 11-May-2023

Revision Number 1

1. Identification	
Product identifier	
Product Name	9-Phenanthrol
Other means of identification	
Product Code(s)	TRC-P295020-100MG
Synonyms	None
Recommended use of the chemical	and restrictions on use
Recommended use	Laboratory use
Restrictions on use	Not to be used for human or animal consumption
Details of the supplier of the safety of	data sheet
Supplier Address	
VHG LGC Standards 276 Abby Road Manchester, NH 03103 UNITED STATES OF AMERICA	
Tel :+1 (603) 622-7660 Fax : +1 (603) 622-5180 Email : Igcusa@Igcgroup.com	
Web : lgcstandards.com	
E-mail	sds-request@lgcgroup.com
Emergency telephone number	
Emergency Telephone For Hazardous Materials or Dangerous Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970	

2. Hazard(s) identification

Classification



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Classified according to OSHA.

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Skin sensitization	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Hazards not otherwise classified (HNOC)

Not applicable

Label elements Warning

Hazard statements

Classified according to OSHA. Harmful if swallowed Causes skin irritation May cause an allergic skin reaction Very toxic to aquatic life with long lasting effects



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 Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace

IF ON SKIN: Wash with plenty of water and soap Take off contaminated clothing and wash it before reuse If skin irritation or rash occurs: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information



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No information available.

3. Composition/information on ingredients

Substance

Formula

C₁₄H₁₀O

Chemical name	CAS No	Weight-%	Trade secret
9-Hydroxy-phenanthrene	484-17-3	100	*

4. First-aid measures

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.	
Skin contact	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.	
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.	
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).	
Most important symptoms and effects, both acute and delayed		
Symptoms	Itching. Rashes. Hives.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.	

5. Fire-fighting measures

Suitable Extinguishing Media Large Fire	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the	Product is or contains a sensitizer. May cause sensitization by skin contact.



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chemical

Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge None. Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Other information	Refer to protective measures listed in Sections 7 and 8.
Methods and material for containr	nent and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handlingAdvice on safe handlingHandle in accordance with good industrial hygiene and safety practice. Avoid contact with
skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear
suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off
contaminated clothing and wash before reuse.Conditions for safe storage, including any incompatibilitiesStorage ConditionsPlease refer to the manufacturer's certificate for specific storage and transport temperature
conditions. Store only in the original receptacle unless other advice is given on the CoA.
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach
of children.

8. Exposure controls/personal protection



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Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).
Hand protection	The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

9. Physical and chemical properties

Information on basic physical and chemical propertiesPhysical stateSolidAppearanceSolidColorlight red; to; dark brownOdorNo information availableOdor thresholdNo information availablePropertyValues

 Property
 values

 pH
 No data available

 Melting point / freezing point
 No data available

 Initial boiling point and boiling rangeNo data available

Remarks • Method None known None known None known



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No data available	None known
No data available	None known
No data available	None known
	None known
No data available	
No data available	
No data available	None known
	None known
No data available	None known
No data available	None known
No information available	
	No data available No data available

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation

Specific test data for the substance or mixture is not available. May cause irritation of



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	respiratory tract.		
Eye contact	Specific test data for the substance or mixture is not ava	ilable.	
Skin contact	May cause sensitization by skin contact. Specific test da not available. Repeated or prolonged skin contact may o susceptible persons. (based on components). Causes s	cause allergic reaction	
Ingestion	Specific test data for the substance or mixture is not ava gastrointestinal irritation, nausea, vomiting and diarrhea. components).		
Symptoms related to the physical,	chemical and toxicological characteristics		
Symptoms	Itching. Rashes. Hives. Redness. May cause redness an	nd tearing of the eye	es.
Acute toxicity			
Numerical measures of toxicity No information available			
<u>Delayed and immediate effects as v</u> Skin corrosion/irritation	vell as chronic effects from short and long-term expos Classification based on data available for ingredients. C		
Serious eye damage/eye irritation	No information available.		
Respiratory or skin sensitization	May cause an allergic skin reaction.		
Germ cell mutagenicity	No information available.		
Carcinogenicity	No information available.		
Reproductive toxicity	No information available.		
STOT - single exposure	No information available.		
STOT - repeated exposure	No information available.		



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Aspiration hazard	No information available.		
Other adverse effects	No information available.		
Interactive effects	No information available.		
12. Ecological information	12. Ecological information		
Ecotoxicity	Very toxic to aquatic life with long lasting effects.		
Persistence and degradability	No information available.		
Bioaccumulation	There is no data for this product.		
Other adverse effects	No information available.		

13. Disposal considerations		
Disposal methods		
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	
Contaminated packaging	Do not reuse empty containers.	

14. Transport information

DOT

UN number or ID number	UN3077
Extended proper shipping name	Environmentally hazardous substance, solid, n.o.s. (9-Hydroxy-phenanthrene)
Transport hazard class(es)	9
Packing group	
Special Provisions	8, 146, 335, 384, 441, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33
DOT Marine Pollutant	I
Marine pollutant	9-Hydroxy-phenanthrene
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (9-Hydroxy-phenanthrene), 9, III, Marine pollutant
Emergency Response Guide Number	171



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TDG	UN3077
UN number or ID number	Environmentally hazardous substance, solid, n.o.s. (9-Hydroxy-phenanthrene)
UN proper shipping name	9
Transport hazard class(es)	III
Packing group	16, 99
Special Provisions	P
Marine pollutant	UN3077, Environmentally hazardous substance, solid, n.o.s. (9-Hydroxy-phenanthrene), 9,
Description	III
MEX	UN3077
UN number or ID number	Environmentally hazardous substance, solid, n.o.s. (9-Hydroxy-phenanthrene)
UN proper shipping name	9
Transport hazard class(es)	III
Packing group	9-Hydroxy-phenanthrene
Technical Name	UN3077, Environmentally hazardous substance, solid, n.o.s. (9-Hydroxy-phenanthrene), 9,
Description	III
Special Provisions	274, 331, 335
IATA	UN3077
UN number or ID number	Environmentally hazardous substance, solid, n.o.s. (9-Hydroxy-phenanthrene)
UN proper shipping name	9
Transport hazard class(es)	III
Packing group	9-Hydroxy-phenanthrene
Technical Name	UN3077, Environmentally hazardous substance, solid, n.o.s. (9-Hydroxy-phenanthrene), 9,
Description	III
Special Provisions	A97, A158, A179, A197, A215
ERG Code	9L
IMDG UN number or ID number UN proper shipping name Transport hazard class(es) Packing group EmS-No Special Provisions Marine pollutant Marine Pollutant Description	Not regulated UN3077 Environmentally hazardous substance, solid, n.o.s. (9-Hydroxy-phenanthrene) 9 III F-A, S-F 274, 335, 966, 967, 969 P 9-Hydroxy-phenanthrene UN3077, Environmentally hazardous substance, solid, n.o.s. (9-Hydroxy-phenanthrene), 9, III, Marine pollutant

15. Regulatory information

International Inventories

TSCA

Complies under research and development exemption or is regulated by a different government agency.



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Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
9-Hydroxy-phenanthrene	484-17-3	-	-

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.



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US State Regulations

<u>California Proposition 65</u> This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information						
NFPA HMIS	Health hazards Health hazards		Flammability Flammability		Instability 0 Physical hazards 0	Special hazards $\ -$ Personal protection $\ X$
Key or legend to abbreviations and acronyms used in the safety data sheetLegend Section 8: Exposure controls/personal protectionTWATWA (time-weighted average)STELCeilingMaximum limit value*StructureStructure						
TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)						
Revision date Revision Note		May-202 informat	23 ion available.			



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Disclaimer

The information in this Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, we cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. We warrant that the chemical meets the specifications set forth on the label. We (LGC/VHG/ARMI) disclaim any other warranties, expressed or implied with regard to the product supplied hereunder, its merchantability or its fitness for a particular purpose. The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. Read all precautionary information.

End of Safety Data Sheet