

Safety Data Sheet

Natural Cinnabar

Product Code: PS-IN0035

Department: rare & historical dry pigments

C.A.S.: 1344-48-5



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Section: 1 Identification

Product Name:	Natural Cinnabar
Synonym(s):	Vermillion
Color index:	Pigment red 106
Chemical Family:	Inorganic Metal Oxide
Uses:	Inorganic colorant, Laboratory chemicals, manufacture of artists paints

Section: 2 Hazard Identification

HGS Label Elements



Signal Word

Warning

GHS Classification

Skin sensitization, hazard category 1
May cause an allergic skin reaction. Category 1

Hazard Statements

H317 May cause an allergic skin reaction.
EUH031 Contact with acids liberates toxic gas.

Precautionary Statements

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ clothing/ eye/ face protection.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/ container to an approved waste disposal plant.

Section: 3 Composition / Information on Ingredients

Chemical Characterization: Natural mineral pigment, mercuric sulphide. Pigment Red 106, C.I.77766
Formula : HgS
Molecular weight : 232.66 g/mol

Hazardous ingredients CAS-No.	EINECS	Chemical Name	Concentration (%)
1308-38-9	215-696-3	Mercury(II) sulfide	100

Additional information: Exempted from the mandatory REACH Registration.

Section: 4 First-Aid Measures

Description of the First Aid Measures

General information:	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	Flush eyes with water as a precaution.
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important Symptoms and Effects, both Acute and Delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or section 11.

Indication of any immediate medical attention and special treatment needed: No data available

Section: 5 Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media	Dry powder
Special hazards arising from the substance or mixture	Sulphur oxides, Mercury/mercury oxides.
Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	No data available

Section: 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas.
Ensure adequate ventilation	Avoid breathing dust. For personal protection see section 8.
Methods and materials for containment and cleaning up	Avoid dust formation. Following product recovery, flush area with water. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container.
Environmental precautions	Do not discharge into drains, water courses or onto the ground.

Section: 7 Handling And Storage

Instructions on safe handling:	Avoid contact with eyes and skin. Avoid formation and deposition of dust. Provide adequate ventilation.
Hygienic measures:	Do not eat or drink during work. Do not smoke.
Conditions for Safe Storage, including any Incompatibilities	
Storage conditions:	Store in tightly sealed containers in a dry room. Protect from direct exposure to light.
Storage class (VCI):	13; Non combustible solids
Further Information:	Do not store together with: acids.

Section: 8 Exposure Control/Personal Protection

Components	CAS-No.	Value Control	parameters	Basis
Mercury(II)sulfide	1344-48-5	TWA	0.025 mg/m3	Canada. Occupational Health and Safety Code (table 2: OEL) Canada. British Columbia OEL
		TWA-EV	0.025 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants.
Remarks:	Substance may be readily absorbed through intact skin.			
Appropriate engineering controls:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.			
Personal protective equipment:	Eye/face protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).			
Skin protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.			
Body Protection :	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.			
Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).			
Control of environmental exposure:	Do not let product enter drains.			

Section: 9 Physical and Chemical Properties

Appearance Form:	solid
Colour:	red
Odour:	odourless
Odour threshold:	No data available
pH:	No data available
Melting point/range:	583.5 °C (1082.3 °F) - lit.
Initial boiling point and boiling range :	584 °C 1083 °F at 1013 hPa
Flash point:	Not applicable
Evaporation rate:	No data available
Flammability (solid,gas):	No data available
Upper/lower flammability or explosive limits :	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	8.1 g/mL at 25 °C (77 °F)
Water solubility:	insoluble
Partition coefficient n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available
Bulk density:	1.07 g/l

Section: 10 Stability And Reactivity

Reactivity:	Contact with acids liberates toxic gas.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No data available
Conditions to avoid:	Light.
Incompatible materials:	acids, Strong oxidizing agents, Halogens, Metal oxides
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Mercury/mercury oxides.
Other decomposition products:	No data available
In the event of fire:	see section 5.

Section: 11 Toxicological Information

Acute toxicity:	No data available
Inhalation:	No data available
Dermal:	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity	
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Additional Information:	RTECS: OX0720000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section: 12 Ecological Information

Toxicity:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Results of PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Other adverse effects:	No data available

Section: 13 Disposal Considerations

Disposal methods:	It is important to minimize or avoid generation of waste wherever possible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Have the loss in accordance with applicable federal, provincial and local regulations.
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Section: 14 Transport Information

TDG Classification:	Not regulated.
IMDG Class:	Not regulated.
IATA-DGR class:	Not regulated.
DOT (US):	Not regulated.

Section: 15 Regulatory Information

Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:	3, very hazardous for water (self-assessment)
Restriction and prohibition of application:	EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: forbidden and/or restricted as antifouling agent, for the preservation of wood, for the impregnation of textiles and yarn, for water treatment.
Chemical Safety Assessment :	A Chemical Safety Assessment has not been carried out for this product.
Further Information:	Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Exempted applications or categories of use: Other pesticides including biocidal products; pesticides; pesticides in agricultural chemicals.

Section: 16 Other Information

Training Tips	Provide adequate information, instruction and training of operators. This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.
Reference Prepared by	Manufacturer's material safety data sheet. Kama pigments

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