Safety Data Sheet

Orpiment

Product Code: PS-IN0019

Department: rare & historical dry pigments

C.A.S.: 1303-33-9

Synonym:



Section: 1 Identification

Chemical Name Arsenic sesquisulfide; Arsenic trisulfide. Colour Index.

C.I, Pigment Yellow 39

Realgar

recommended uses: Laboratory chemicals, Pigment in artists colors, Restoration purposes

Uses advised against: Food, drug, pesticide or biocidal product use

Section: 2 Hazard Identification

HGS Label Elements



Signal Word

Danger

GHS Classification

Acute oral toxicity Category 3

Acute Inhalation Toxicity - Dusts and Mists Category 3

Carcinogenicity Category 1A

Hazardous to the aquatic environment, chronic category 1

Hazard Statements

H301 Toxic if swallowed

H331 Toxic if inhaled

H350 May cause cancer

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P302+P352 If on skin: Wash with soap and water.

P309+P311 If exposed or you feel unwell: Call a poison center or physician.

P501 Dispose of contents/ container according to regional, national and international regulations.

Section: 3 Composition / Information on Ingredients

Component CAS-No Weight % Arsenic trisulfide 1303-33-9 99.99

Section: 4 First-Aid Measures

General Advice: Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth

method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory

medical device. Immediate medical attention is required.

Ingestion: Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms : None reasonably foreseeable Notes to Physician: Treat symptomatically

Section: 5 Fire-Fighting Measures

Suitable extinguishing media:

Incompatible Extinguishing Media: Specific hazards for the product:

Hazardous thermal decomposition products: Special protective measures for fire-fighters:

Special protective equipment for Fire Fighters:

Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam or dry chemical.

None known.

No specific risk of fire or explosion.

No specific data. Not applicable.

Firefighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated

in positive pressure mode.

Section: 6 Accidental Release Measures

Personal precautions, protective equipment

And emergency measures:

Environmental precautions:

Methods and materials for containment and Cleaning:

No action shall be taken involving any personal risk or without suitable training. Evacuate the surroundings. Preventing access to unwanted or unprotected persons. Do not touch or walk through spilled material. Avoid breathing dust. Wear appropriate personal protective equipment. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Move containers away from spill area. Approach the emanations in the same direction as the wind. Collect spillage with a vacuum cleaner or brush and place in a properly identified waste container. Avoid creating a cloud of dust and preventing wind dispersal. Dispose of through an authorized specialist company. Note: See Section 1 for emergency information and see Section 13 for waste disposal. Prevent entry into sewers, watercourses, basements or confined areas.

Section: 7 Handling And Storage

Handling: Do not get in eyes, on skin, or on clothing. Wear personal protective

equipment. Avoid dust formation. Use only under a chemical fume hood.

Do not breathe vapors/dust. Do not ingest.

Storage: Keep in a dry, cool and well-ventilated place. Keep container tightly

closed. Keep locked-up.

Section: 8 Exposure Control/Personal Protection

ACGIH TLV Component NIOSH IDLH TWA: 0.01 mg/m3 IDLH: 5 mg/m3 Arsenic trisulfide

Ceiling: 0.002 mg/m3

Leaend

ACGIH: American Conference of Governmental Industrial Hygienists

NIOSH IDI H: The National Institute for Occupational Safety and Health Immediately Dangerous to

Life or Health

Engineering Measures: Ensure adequate ventilation, especially in confined areas.

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: Long sleeved clothing.

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.

Section: 9 Physical and Chemical Properties

Physical State: Powder Solid Appearance: Yellow-orange Odor: Odorless

Odor Threshold: No information available

Not applicable :Ha 300 ℃ / 572 ℉ Melting Point/Range:

Boiling Point/Range: 707 °C / 1304.6 °F @ 760 mmHg

Flash Point: No information available

Evaporation Rate: Not applicable

No information available Flammability (solid,gas):

Flammability or explosive limits

Upper: No data available Lower: No data available Vapor Pressure: No information available

Vapor Density: Not applicable Density: 3.43 g/cm3 Solubility: insoluble

Partition coefficient; n-octanol/water: No data available Autoignition Temperature: Not applicable

Decomposition Temperature: No information available

Viscosity: Not applicable Molecular Formula: As2 S3 Molecular Weight: 246.02 g /mol

Section: 10 Stability And Reactivity

Reactivity: Can decompose at excessive heat. Chemical Stability: Stable if used according to specifications.

Possibility of Hazardous Reactions: Risk of explosion with oxidizing agents, chlorates, potassium nitrate, nitric acid.

Reacts with water, heat, hydrogen peroxide, chlorine, chloric acid.

Conditions to avoid: Avoid heat. Thermal decomposition

Oxidation agents, chlorates, potassium nitrate, nitric acid. Hydrogen peroxide, chloric Imcompatible Materials:

acid, chlorine, water/heat.

Hazardous Decomposition Products: Sulphur dioxide, hydrogen sulfide gas, arsenic.

Section: 11 Toxicological Information

Acute Toxicity

LD50, oral: 185 mg/kg (rat) LD50, dermal: 936 mg/kg (rat)

LC50, inhalation: No information available.

Primary effects

Irritant effect on skin:

No irritant effect known.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component CAS-No IARC NTP ACGIH OSHA Arsenic trisulfide 1303-33-9 Group 1 Known A1 X

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program) Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to

be a Human Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

Mutagenic Effects:
Reproductive Effects:
No information available.
Developmental Effects:
No information available.
Teratogenicity:
No information available.
STOT:
single exposure None known repeated exposure None known No information available.

Symptoms / effects,both acute and delayed:
Endocrine Disruptor Information:

No information available
No information available

Other Adverse Effects: The toxicological properties have not been fully investigated.

Section: 12 Ecological Information

Persistence and Degradability: Insoluble in water May persist Bioaccumulation/ Accumulation: No information available.

Mobility: Is not likely mobile in the environment due its low water solubility.

Section: 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.

Section: 14 Transport Information

DOT

UN-No UN1557

Proper Shipping Name ARSENIC COMPOUNDS, SOLID, N.O.S.

Proper technical name Arsenic trisulfide

Hazard Class 6.1 Packing Group III

TDG

UN-No UN1557

Proper Shipping Name ARSENIC COMPOUNDS, SOLID, N.O.S.

Hazard Class 6.1 Packing Group III

IATA

UN-No UN1557

Proper Shipping Name ARSENIC COMPOUNDS, SOLID, N.O.S.

Hazard Class 6.1 Packing Group III

IMDG/IMO

UN-No UN1557

Proper Shipping Name ARSENIC COMPOUNDS, SOLID, N.O.S.

Hazard Class 6.1 Packing Group III

Section: 15 Regulatory Information

All of the components in the product are on the following Inventory lists: X = listed U.S.A. (TSCA) Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP) Australia (AICS) Korea (ECL) China (IECSC) Japan (ENCS) Philippines (PICCS)

International Inventories

AICS IECSC Component **TSCA** DSL **NDSL EINECS ELINCS** NLP PICCS **ENCS KECL** Arsenic trisulfide Listed Listed 215-117-4 Listed Listed KE-01940

Further Information: Restricted to professional users.

Section: 16 Other Information

Reference Manufacturer's material safety data sheet.

Prepared by Kama pigments

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