10627 Cinnabar, medium

1. Identification of the Substance/Mixture and of the Company/Undertaking

1. 1. Product Identifier

Product Name:	*Cinnabar, medium*
Article No.:	*10627*
UFI:	*--*

1. 2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:
Laboratory chemicals, manufacture of substances

Uses advised against:

1. 3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company:	*Kremer Pigmente GmbH & Co. KG*
Address:	*Hauptstr. 41-47, 88317 Aichstetten, Germany*
Tel./Fax.:	*Tel +49 7565 914480, Fax +49 7565 1606*
Internet:	*www.kremer-pigmente.com*
EMail:	*info@kremer-pigmente.com*
Importer:	*--*

1. 4. Emergency No.

Emergency No.: *+49 7565 914480 (Mon-Fri 8:00 - 17:00)*

1. 4. 2 Poison Center:

2. Hazards Identification

2. 1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Hazardous to the aquatic environment, hazard category 2
Skin sensitization, hazard category 1

H317 May cause an allergic skin reaction.
Cat.: 1

Possible Environmental Effects:

2. 2. Label Elements

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Hazard designation:

GHS07-1

Signal word:

Warning

Hazard designation:

May cause an allergic skin reaction.

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H317	
EUH031	Contact with acids liberates toxic gas.

Safety designation:

P280	Wear protective gloves/ clothing/ eye/ face protection.
P333+P313	If skin irritation or rash occurs: Get medical attention.

Hazardous components for labelling:

2. 3. Other Hazards

3. Composition/Information on Ingredients

3. 1. Substance

3. 2. Mixture

Chemical Characterization: *Mercuric sulphide. Pigment Red 106, C.I. 77766*

Information on Components / Hazardous Ingredients:

Mercury(II) sulfide (H317)	100 %	CAS-Nr: 1344-48-5 EINECS-Nr: 215-696-3 EC-Nr:

Additional information:

Exempted from the mandatory REACH Registration.

4. First Aid Measures

4. 1. Description of the First Aid Measures

General information:

Consult physician.

After inhalation:

Take affected person to fresh air.
If breathing stops: immediately apply artificial respiration, if necessary also oxygen.
Seek medical advice immediately.

After skin contact:

Wash off with plenty of water and soap. Consult a physician if irritation persists.

After eye contact:

Rinse eyes with water.

After ingestion:

Never give anything by mouth to an unconscious person.
Rinse mouth with plenty of water and consult physician.

4. 2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

No further information available.

Effects:

4. 3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

No further information available.

5. Fire-Fighting Measures

5. 1. Extinguishing Media

Suitable extinguishing media:

Extinguishing powder.

Unsuitable extinguishing media:

5. 2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: formation of sulfur oxides, mercury oxides.

5. 3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Further information:

6. Accidential Release Measures

6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Avoid contact with skin, eyes and clothing. Do not ingest or inhale.
Avoid formation of dust.
Wear protective clothing.

6. 2. Environmental Precautions

Environmental precautions:

Prevent contamination of soil, drains and surface waters.

6. 3. Methods and Material for Containment and Cleaning Up

Methods and material:

Take up mechanically and collect in suitable containers for disposal. Avoid dust formation.
Do not rinse with water.

6. 4. Reference to other Sections

See Section 13 for information on disposal.

7. Handling and Storage

7. 1. Precautions for Safe Handling

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.

7. 2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a dry room.
Protect from direct exposure to light.

Avoid any contact with water during storage.

Requirements for storage areas and containers:

Information on fire and explosion protection:

Storage class:

13; Non combustible solids (TRGS 510)

Further Information:

Do not store together with: acids.

7. 3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8. 1. Parameters to be Controlled

Parameters to be controlled (DE):

Mercury(II) sulfide (CAS 1344-48-5): 0.02 mg/m3 (TRGS 900)

Parameters to be controlled:

Mercury(II) sulfide red (CAS 1344-48-5):
TWA (USA): 0.025 mg/m3 (ACGIH Threshold Limit Values (TLV); 0.05 mg/m3 (NIOSH Recomended Exposure Limits)
Potential for dermal absorption: C: 0.1 mg/m3 (NIOSH Recommended Exposure Limits); PEL: 0.025 mg/m3 (California permissable exposure limits for chemical contaminants (Title 8, Article 107)
Skin: C: 0.1 mg/m3 (California permissable exposure limits for chemical contaminants (Title 8, Article 107)

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

Biological limit value (TRGS 903):
Mercury(II) sulfide (1344-48-5): 25 µg/g creatinine (urine; TRGS 903)

8. 2. Exposure Controls

Technical protective measures:

Provide adequate ventilation.

Personal Protection

General protective measures:

Remove contaminated clothing. Wash hands after work.
Keep away from foodstuffs, beverages and feed.

Respiratory protection:

Dust mask recommended when very dusty: with particle filter N100 (US) or P3 (EU EN 143).

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Eye protection:

Safety glasses NIOSH (US) or EN 166 (EU)

Body protection:

Protective clothing, chemical resistant.

Environmental precautions:

Do not allow entering sewerage system.

9. Physical and Chemical Properties

9. 1. Information on Basic Physical and Chemical Properties

Form:	*powder*
Color:	*red, medium*
Odor:	*odorless*
Odor threshold:	*no information available*
pH-Value:	*not available*
Melting temperature:	*583.5°C (lit.)*
Boiling temperature:	*584°C (1013 hPa)*
Flash point:	*not applicable*
Evaporation rate:	*No information available.*
Flammability (solid, gas):	*non-combustible*
Upper explosion limit:	*no information available*
Lower explosion limit:	*no information available*
Vapor pressure:	*not applicable*
Vapor density:	*No information available.*
Density:	*8.1 g/cm3 (20°C)*
Solubility in water:	*insoluble*
Auto-ignition temperature:	*No information available.*
Decomposition temperature:	*No data available.*

Viscosity, dynamic:

not applicable

Explosive properties:

not available

Oxidizing properties:

no information available

Bulk density: *1.07 g/l*

9. 2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

No further information.

10. Stability and Reactivity

10.1. Reactivity

Develops toxic gases upon contact with acids.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

No information available.

10.4. Conditions to Avoid

Conditions to avoid:

Protect from light.

Thermal decomposition:

10.5. Imcompatible Materials

Strong oxidizing agents.
Acids, halogens, metal oxides.

10.6. Hazardous Decomposition Products

In the event of fire: see part 5.

10.7. Further Information

11. Toxicological Information

11. 1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

Acute Toxicity

No information available.

LD50, oral:

LD50, dermal:

LC50, inhalation:

Primary effects

Irritant effect on skin:

No information available

Irritant effect on eyes:

No information available.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effects known.

Mutagenicity:

No relevant data found.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

IARC: 3, group 3: not classifiable
NTP: Not identified as a known or anticipated carcinogen by NTP.
OSHA: Not listed on OSHA´s list of regulated carcinogens.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

Single exposure: no information available.
Repeated exposure: no information available.

Aspiration hazard:

No risk of aspiration.

11. 2. Information on other Hazards

No further information available.

12. Ecological Information

12. 1. Aquatic Toxicity

No information available.

Fish toxicity:

Daphnia toxicity:

Bacteria toxicity:

Algae toxicity:

12. 2. Persistency and Degradability

No information available.

12. 3. Bioaccumulation

No information available.

12. 4. Mobility

No information available.

12. 5. Results of PBT- und vPvP Assessment

On the basis of available data, the product does not contain any PBT or vPvB substances in percentage greater than 0.1 %.

12. 6. Endocrine Disrupting Properties

No data available.

12. 7. Other Adverse Effects

Water hazard class:

Do not let run into surface waters, waste water or soil.

Behaviour in sewage systems:

Further ecological effects:

There are no data available on the product itself.
The product is not soluble in water. No negative effects expected.

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

Dispose of according to official national and local regulations.
These products have to be dissolved in a flammable solvent or mixed with it and then burnt in an incinerator for chemicals (with afterburner and exhaust washer).

European Waste Code (EWC):

Uncleaned packaging:

Contaminated packaging must be disposed like the substance.

Waste Code No.:

14. Transport Information

14. 1. UN Number

ADR, IMDG, IATA

14. 2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR / DOT (US) (land transportation).

IMDG/IATA:

Not hazardous goods

14. 3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

not applicable

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14. 4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14. 5. Environmental Hazards

None

14. 6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14. 7. Maritime Transport in Bulk according to IMO Instruments

14. 8. Further Information

15. Regulatory Information

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

Water hazard class:

3, very hazardous for water (German Regulation; Self-assessment)

Local regulations on chemical accidents:

Employment restrictions:

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.

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

15. 3. Further Information

Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Exempted applications or categores of use: other pesticides including biocidal products; pesticides; pesticides in agricultural chemicals.

SARA 302 (Extremely Hazardous Substances): None

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold

(De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 - Hazard category: acute health hazard

Massachusetts Right to Know Component(s): No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Regulated Chemical(s): Mercury(II) sulfide red (CAS 1344-48-5; Revision Date 2015-07-08)

16. Other Information

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.