

SAFETY DATA SHEET

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Trade name: **Kadmiumrot rubin**

Print date: **22.04.20**

Version: **3 / DE**

Date revised: **24.05.2019**

Replaces Version: **2 / DE**

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Kadmiumrot rubin

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

artists' pigments, Prohibitions and Restrictions, see section 15.

1.3. Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

Supplemental information ***

EUH210

Safety data sheet available on request.

2.3. Other hazards

Free cadmium may harm lungs- and renal-function. A guideline from the institution for statutory accident insurance and prevention in the chemical industry about the handling with cadmium-pigments can be inquired. Dust loading. Contact with acids liberates toxic gas.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

pigment mixture, inorganic construction

contains Cadmium-pigments

cadmium sulfoselenide red, Pigment Red 108, CAS 58339-34-7, EINECS 261-218-1, Registration no. 01-2119981636-24-XXXX

and/or cadmium sulfoselenide orange, Pigment Orange 20, CAS 12656-57-4, EINECS 235-758-3, Registration no. 01-2119981636-24-XXXX

and/or Cadmium Zinksulfide yellow, Pigment Yellow 35, CAS 8048-07-5, EINECS 232-466-8, Registration no.. 01-2119981639-18-XXXX

These cadmium pigments are explicitly exempt from the harmonized classification and labelling of cadmium compounds (index no 048-001-00-5) of Annex VI of Regulation (EC) No 1272/2008 (CLP).

Further ingredients

Calcium fluoride

CAS No.

14542-23-5

Concentration

>=

1

<

10

%

[5]

Note

[5] Substance with EU occupational exposure limits

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of persistent symptoms consult doctor.

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

Rinse mouth thoroughly with water. Call in a physician immediately and show him the Safety Data Sheet.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Foam, Carbon dioxide, Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Poisonous metal oxides; Sulphur oxides; Irritant and harmful combustion products.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Avoid dust formation. Do not inhale dust. Use breathing apparatus if exposed to vapours/dust/aerosol. Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case the product spills into sewage waters, immediately inform the authorities. Retain and dispose of contaminated wash water.

6.3. Methods and material for containment and cleaning up

Avoid raising dust. Dampen, pick up mechanically and dispose of. When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8.

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Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid the formation and deposition of dust. Provide exhaust ventilation if dust is formed. Ensure adequate ventilation. Handle and open container with care. Provide suitable exhaust ventilation at processing machines. Use breathing apparatus when transferring large quantities without exhaust ventilation facilities. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Observe the usual precautions for handling chemicals.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

7.2. Conditions for safe storage, including any incompatibilities

Hints on storage assembly

Do not store together with: Acids, Oxidising agents, Do not store together with foodstuffs. Do not store together with animal feedstocks.

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from direct sunlight. Protect from extreme heat and cold.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Calcium fluoride

List	2000/39/EC
Type	Indicative Occupational Exposure Limit (EU)
Value	2,5 mg/m ³
Remarks:	Fluorides, inorganic

Calcium fluoride

List	TRGS 900
Value	1 mg/m ³
Maximum limit value:	4(II); Skin resorption / sensibilisation: H; Pregnancy group: Y; Status: 12/2007; Remarks: EU, DFG

Quartz

Type	MAK
Value	0,05 mg/m ³
Maximum limit value:	8; Status: DGUV 2017; Remarks: Alveolengängige Fraktion, TRGS 559, TRGS-Beurteilungsmaßstab

Biological limit values

Calcium fluoride

List	TRGS 903
Value	7,0 mg/g creatinine
Parameter	Fluoride
Testing material	Urine (U)
Test date	End of exposure or end of shift.

Calcium fluoride

List	TRGS 903
Value	4,0 mg/g creatinine
Parameter	Fluoride
Testing material	Urine (U)
Test date	Before next shift.

Other information

The national general dust limit must be observed.
TRGS 900: Observe the general dust threshold.

8.2. Exposure controls

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General protective and hygiene measures

Do not inhale dust/fumes/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Use barrier skin cream. Observe the usual precautions for handling chemicals. Take off immediately all contaminated clothing.

Respiratory protection

Use breathing apparatus in dust-laden atmosphere. Short term: filter apparatus, Filter P3; If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

Hand protection

impermeable gloves

Observe the information of the glove manufacturers on permeability and breakthrough times and other workplace requirements.

Eye protection

Safety glasses with side protection shield

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Powder
Colour	see tradename
Odour	characteristic
Odour threshold	
Remarks	not determined
pH value	
Remarks	not determined
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Initial boiling point and boiling range	
Remarks	not determined
Flash point	
Remarks	Not applicable
Evaporation rate (ether = 1) :	
Remarks	not determined
Flammability (solid, gas)	
Remarks	not determined
Upper/lower flammability or explosive limits	
Remarks	not determined
Vapour pressure	
Remarks	not determined
Vapour density	
Remarks	not determined
Density	
Remarks	not determined
Solubility in water	
Remarks	not determined
Solubility(ies)	
Remarks	not determined
Partition coefficient: n-octanol/water	
Remarks	not determined
Ignition temperature	
Remarks	not determined
Decomposition temperature	
Remarks	not determined
Viscosity	

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Remarks	Not applicable
Explosive properties	
evaluation	not determined
Oxidising properties	
Remarks	not determined
9.2. Other information	
Other information	
None known	

SECTION 10: Stability and reactivity

10.1. Reactivity

With acids hydrogen sulphide is produced. Violent reaction under influence of oxidising agents.

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

When used as recommended, no hazardous reactions are expected.

10.4. Conditions to avoid

No hazardous reactions known.

Decomposition temperature

Remarks not determined

10.5. Incompatible materials

Reactions with strong acids. With acids hydrogen sulphide is produced. Reactions with strong oxidising agents.

10.6. Hazardous decomposition products

Hydrogen sulfide (H₂S), Poisonous metal oxides, Barium oxides, sulphurous oxides (SO_x)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Remarks not determined

Acute dermal toxicity

Remarks not determined

Acute inhalational toxicity

Remarks not determined

Skin corrosion/irritation

Remarks not determined

Remarks Frequent persistent contact with the skin can cause skin irritation.

Serious eye damage/irritation

Remarks not determined

Remarks Eye contact with the product may lead to irritation.

Sensitization

Remarks not determined

Subacute, subchronic, chronic toxicity

Remarks not determined

Remarks Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Mutagenicity

Remarks not determined

Reproductive toxicity

Remarks not determined

Carcinogenicity

Remarks not determined

Specific Target Organ Toxicity (STOT)

Remarks not determined

Other information

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No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity

General information

not determined

12.2. Persistence and degradability

General information

not determined

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

12.6. Other adverse effects

General information

not determined

General information / ecology

Ecological data are not available. Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities.

No refuse incineration.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

Uncontaminated packaging may be taken for recycling.

SECTION 14: Transport information

Land transport ADR/RID

The product does not constitute a hazardous substance in land transport.

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

SECTION 15: Regulatory information ***

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (Germany) ***

Water Hazard Class (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

Other regulations, restrictions and prohibition regulations

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ZH 1/136 "Data Sheet: Cadmium and its compounds, Cadmium chloride (M 033)"

Prohibited uses according to REACH-Regulation (EG) No. 1907/2006 Annex XVII-restrictions - 23 and amendment EU Nr. 494/2011, e.g. polymers, aqueous and non-aqueous based paints, Cadmium pigments may not be used in paints within the EU which fall within Common Customs Tariff numbers 3208 and 3209.

Prohibited uses according to end-of-lives-vehicles Directive 2000/53/EC, Electrical Directive (2002/95/EC and 2011/65/EC) and Packaging Directive (94/62/EC).

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

AGW: Arbeitsplatzgrenzwert

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances that are hazardous to water)

BGW: Biologischer Grenzwert

CAS: Chemical Abstracts Service

DNEL: Derived no effect level

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

GGVSee: Gefahrgutverordnung See

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

LC: Lethal concentration

LD: Lethal dose

MAK: Maximale Arbeitsplatz-Konzentration

NOEC: No observable effect concentration

NOEL: No observable effect level

OECD: Organisation for Economic Co-operation and Development

OEL: Occupational exposure limit

PBT: Persistent, Bioaccumulative and Toxic

PNEC: Predicted no effect concentration

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

TRGS: Technische Regeln für Gefahrstoffe

VDI: Verein Deutscher Ingenieure

VLEP: Valeurs Limites d'exposition Professionnelle

vPvB: Very persistent and very bioaccumulative

WGK: Wassergefährdungsklasse (water hazard class)

Supplemental information

These data is based on our present knowledge and experience respectively supplier-information. This safety data sheet describes the product in regard to the requirements of safety. The information does not represent a assurance for certain properties. Existing laws and regulations are to be observed by the recipient of our products in own responsibility. It is the responsibility of the user, to determine if the product is suitable for the deliberate operational area and the respective intended purpose. A liability for damages in connection with the use of this information is excluded. Relevant changes compared with the previous version of the safety data sheet are marked with: ***