

SAFETY DATA SHEET

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

1.1. Product identifier

Cadmium Red mid

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

Use of the substance/preparation

artists' pigments

Uses advised against

Use bans according to REACH Annex XVII, entry 23, including water-based and non-water-based paints (customs tariff code 3208 and 3209), polymers. For further usage bans and information see section 15.

1.3. Details of the supplier of the safety data sheet

Address

Deffner & Johann GmbH Mühläckerstraße 13 D-97520 Röthlein

Telefon-Nr.: + 49 (0) 9723 9350-0 Fax-Nr.: + 49 (0) 9723 9350-25 E-Mail-Adresse: info@deffner-johann.de

1.4. Emergency telephone number

+49 (0) 9723 9350-0 (Mo - Fr: 7.30 - 15.00)

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

 $\label{lem:contact} \textit{Free cadmium may harm lungs- and renal-function. Dust loading. Contact with acids liberates toxic gas.}$

This substance/mixture does not contain components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher. This substance/mixture does not contain components classified as very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

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

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Calcium fluoride

CAS No. 14542-23-5

Concentration >= 1 < 10 %

Advice: [5]

Note

[5] Substance with EU occupational exposure limits

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 eve 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

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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. 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/m³

Remarks: Fluorides, inorganic

Calcium fluoride

List TRGS 900

Value 1 mg/m³

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/m³

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 (b)

Calcium fluoride

List TRGS 903

Value 4,0 mg/g

creatinine

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Parameter Fluoride Testing material Urine (U)

Test date Before next shift (d)

Other information

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

8.2. Exposure controls

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

Physical state Powder
Colour see tradename
Odour characteristic

Melting point

Remarks not determined

Freezing point

Remarks not determined **Boiling point or initial boiling point and boiling range**Remarks not determined

Flammability not determined

Upper and lower explosive limits

Remarks not determined

Flash point

Remarks Not applicable

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

pH value

Remarks not determined

Viscosity

Remarks Not applicable

Solubility(ies)

Remarks not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Vapour pressure

Remarks not determined

Density and/or relative density

Remarks not determined

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Relative vapour density

Remarks not determined

Particle characteristics

Remarks not determined

9.2. Other information

Odour threshold

Remarks not determined

Evaporation rate (ether = 1):

Remarks not determined

Solubility in water

Remarks not determined

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

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 (SOx)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Remarks Based on available data, the classification criteria are not met.

Serious eye damage/irritation Remarks

Remarks Based on available data, the classification criteria are not met.

Sensitization

Remarks Based on available data, the classification criteria are not met.

Subacute, subchronic, chronic toxicity

Remarks not determined

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

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

Remarks Like any foreign body, particles (dust) can cause mechanical irritation.

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Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks Based on available data, the classification criteria are not met.

Repeated exposure

Remarks Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties with respect to humans

No data available

Other information

The cadmium pigments contained in this product are, because of their extreme insolubility, much less toxic than other cadmium compounds.

SECTION 12: Ecological information

12.1. Toxicity

General information

In contrast to most cadmium compounds, the cadmium pigments used in this product do not pose a significant environmental hazard due to their extreme insolubility.

12.2. Persistence and degradability

General information

not determined

12.3. Bioaccumulative potential

General information

Since the cadmium pigments used in this product are very sparingly soluble in both water and all other solvents, it is unlikely that they have a bioaccumulative potential.

Partition coefficient n-octanol/water (log value)

Remarks not determined

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

Results of PBT and vPvB assessment

This substance/mixture does not contain components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

This substance/mixture does not contain components classified as very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the envrionment

No data available

12.7. Other adverse effects

General information

Contains cadmium.

General information / ecology

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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

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 - item no. 23 and

amendment EU Nr. 494/2011, e.g. polymers, aqueous and non-aqueous based paints,

Cadmium pigments may not be used inpaints within the EU which fall within Common Customs Tariffnumbers 3208 and

Prohibited uses according to end-of-lifes-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

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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 an 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: ***