

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 44250 Viridian Green

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Revised edition: 04.03.2025

Version: 4

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

1.1. Product Identifier

*Product Name:* Viridian Green

*Article No.:* 44250

*UFI:*

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

*Identified uses:*

*Colorant in cosmetics, artists colors, paints and coatings; catalyts.*

*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:

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### 2. Hazards Identification

2.1. Classification of the Substance or Mixture

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

*This product does not require classification and labelling as hazardous according to CLP/GHS.*

*Possible Environmental Effects:*

2.2. Label Elements

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

*No classification required according to the CLP/GHS guidelines.*

*Hazard designation:*

*Not applicable.*

*Signal word:*

*Hazard designation:*

*Safety designation:*

*Hazardous components for labelling:*

2.3. Other Hazards

*No special hazards known.*

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### 3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

*Chemical Characterization:* Chromic oxide dihydrate. Pigment Green 18, C.I. 77289

*Information on Components / Hazardous Ingredients:*

Chromium hydroxide; REACH Reg. No. 01-2119433951-39-0002	90 - 100 %	CAS-Nr: 12001-99-9 EINECS-Nr: 215-160-9 EC-Nr:
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*Additional information:*

*SVHC (Candidate List of Substances of very High Concern): This product does not contain any substances of high concern (REACH Regulation 1907/2006/EC, Article 59).*

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### 4. First Aid Measures

4.1. Description of the First Aid Measures

*General information:*

*Seek medical attention in case of complaints.*

*After inhalation:*

*Supply fresh air and seek medical advice in case of complaints.  
Give artificial respiration in case breathing is not regular or if it has stopped.*

*After skin contact:*

*Wash with soap and rinse with plenty of water.  
Wash contaminated clothing before reuse.*

*After eye contact:*

*Rinse open eyes with plenty of water for at least 15 minutes.  
Consult physician.*

*After ingestion:*

*Immediately get medical help.*

4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*Long-term exposure may damage the lungs and respiratory tract.*

*Effects:*

4.3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*Treat symptomatically.*

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### 5. Fire-Fighting Measures

5.1. Extinguishing Media

*Suitable extinguishing media:*

*Use extinguishing media for surrounding fire.*

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### *Unsuitable extinguishing media:*

*Do not use a solid water stream as it may scatter and spread fire.*

#### 5.2. Special Hazards arising from the Substance or Mixture

##### *Special hazards:*

*In case of fire: hazardous gases/vapors may be released.*

*In case of fire: chromium oxides*

#### 5.3. Advice for Firefighters

##### *Protective equipment:*

*Wear suitable protective clothing.*

*Wear self-contained respiratory protective device.*

### *Further information:*

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## **6. Accidental Release Measures**

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

##### *Personal precautions:*

*Wear protective clothing.*

#### 6.2. Environmental Precautions

##### *Environmental precautions:*

*Prevent contamination of soil, drains and surface waters.*

*Contact local authorities if product pollutes soil or vegetation.*

#### 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.*

*Collect powder using a special dust vacuum cleaner with particle filter and dispose in a adequate resealable container.*

#### 6.4. Reference to other Sections

*Protective clothing, see Section 8.*

*See Section 13 for information on disposal.*

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## **7. Handling and Storage**

#### 7.1. Precautions for Safe Handling

##### *Instructions on safe handling:*

*Wear adequate protective clothing (see para. 8).*

*Avoid contact with eyes, skin and clothing.*

*Provide adequate ventilation.*

##### *Hygienic measures:*

*Keep away from foodstuffs and drinks.*

#### 7.2. Conditions for Safe Storage, including any Incompatibilities

##### *Storage conditions:*

*Store in tightly sealed containers in a dry room.*

*Store the product in a place that is only accessible to authorized persons.*

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*Requirements for storage areas and containers:*

*Store the product in the original container.*

*Information on fire and explosion protection:*

*Do not store together with ignitable sources, heat and fire.*

*Storage class:*

*11; Combustible solids (TRGS 510)*

*Further Information:*

7.3. Specific End Use(s)

*Further information:*

## 8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*No occupational exposure limits known.*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*No values available.*

*PNEC (Predicted No-Effect Concentration):*

*No values available.*

*Additional Information:*

*Chromium hydroxide (CAS 12001-99-9): FR: 2.5 µg/l (Urine; Total Chromium - End of the shift at end of workweek); DE: 0,6 µg/l (Urine; BAR - End of exposure or end of shift)*

8.2. Exposure Controls

*Technical protective measures:*

*Adequate ventilation.*

*Facilities storing or utilizing this material should be equipped with an eyewash facility.*

*Personal Protection*

*General protective measures:*

*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.*

*Respiratory protection:*

*Required in case of insufficient ventilation (EN 143 or 149).*

*Hand protection:*

*Chemical protective gloves (EN 374 (Europe), F739 (US)).*

*Protective glove material:*

*Eye protection:*

*Safety glasses with protective shields (EN 166).*

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### *Body protection:*

*Protective clothing should be laundered at the end of the working period.*

### *Environmental precautions:*

*Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.*

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## 9. Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>powder</i>
<i>Color:</i>	<i>blue-green</i>
<i>Odor:</i>	<i>odorless</i>
<i>Odor threshold:</i>	<i>no information available</i>
<i>pH-Value:</i>	<i>not applicable</i>
<i>Melting temperature:</i>	<i>&gt; 450°C</i>
<i>Boiling temperature:</i>	<i>not available</i>
<i>Flash point:</i>	<i>not applicable</i>
<i>Evaporation rate:</i>	<i>not applicable</i>
<i>Flammability (solid, gas):</i>	<i>non-combustible</i>
<i>Upper explosion limit:</i>	<i>no information available</i>
<i>Lower explosion limit:</i>	<i>no information available</i>
<i>Vapor pressure:</i>	<i>not applicable</i>
<i>Vapor density:</i>	
<i>Density:</i>	<i>3.21 g/cm<sup>3</sup> (20°C)</i>
<i>Solubility in water:</i>	<i>insoluble</i>
<i>Coefficient of variation (n-Octanol/Water):</i>	<i>not determined</i>

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*Auto-ignition temperature:*

*not applicable*

*Decomposition temperature:*

*not applicable*

*Viscosity, dynamic:*

*not applicable*

*Explosive properties:*

*not explosive*

*Oxidizing properties:*

*not oxidizing*

*Bulk density:*

*ca. 400 kg/m<sup>3</sup>*

9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Particle characteristics: no information*

*Other information:*

*No further information.*

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### 10. Stability and Reactivity

10.1. Reactivity

*Stable if used according to specifications.*

10.2. Chemical Stability

*Stable if used according to specifications.*

10.3. Possibility of Hazardous Reactions

*Unknown.*

10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid humidity.*

*Thermal decomposition:*

10.5. Incompatible Materials

*Strong oxidizing agents.*

10.6. Hazardous Decomposition Products

*At high temperatures: Chromium (IV) compounds.*

10.7. Further Information

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### 11. Toxicological Information

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

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### Acute Toxicity

*LD50, oral:* > 5000 mg/kg (rat)

*LD50, dermal:* > 5000 mg/kg (rabbit)

*LC50, inhalation:* --

### Primary effects

*Irritant effect on skin:*

Non irritating

*Irritant effect on eyes:*

Dust may irritate eyes.

*Inhalation:*

Can cause irritation of the respiratory system.

*Ingestion:*

Not classified as harmful.

*Sensitization:*

No sensitizing effects known.

*Mutagenicity:*

No mutagenic effects known.

*Reproductive toxicity:*

No information available.

*Carcinogenicity:*

Chromium and Chromium compounds has been reviewed by IARC. There is inadequate evidence in humans for the carcinogenicity of metallic chromium and chromium (III) compounds. There is inadequate evidence for the carcinogenicity of metallic chromium and chromium (III) compounds in experimental animals. Therefore, the working group concluded that Metallic chromium and chromium (III) compounds are not classifiable as to their carcinogenicity to human (Group 3).

*Teratogenicity:*

Not considered to be teratogenic.

*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

Endocrine Disrupting Properties: no information available.

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## 12. Ecological Information

12. 1. Aquatic Toxicity

No information available.

*Fish toxicity:*

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*Daphnia toxicity:*

*Bacteria toxicity:*

*Algae toxicity:*

12. 2. Persistency and Degradability

*No information available.*

12. 3. Bioaccumulation

*No bioaccumulation.*

12. 4. Mobility

*No data available.*

12. 5. Results of PBT- und vPvP Assessment

*This product is neither a PBT or vPvB substance nor does it contain a PBT or vPvB substance.*

12. 6. Endocrine Disrupting Properties

*No data available.*

12. 7. Other Adverse Effects

*Water hazard class:*

*Do not let product contaminate ground water, waterways or sewage system.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*AOX Value:*

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### 13. Disposal Considerations

13. 1. Waste Treatment Methods

*Product:*

*Dispose of according to official national and local regulations.*

*European Waste Code (EWC):*

*Waste codes should be assigned by the user based on the application for which the product was used.*

*Uncleaned packaging:*

*Empty containers should be taken to an approved waste handling site for recycling or disposal.*

*Waste Code No.:*

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### 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:*

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*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

*not applicable*

14. 8. Further Information

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### 15. Regulatory Information

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

*Water hazard class:*

*1, slightly hazardous for water (German Regulation)*

*Local regulations on chemical accidents:*

*Employment restrictions:*

*Restriction and prohibition of application:*

*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

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*Listed in the following inventories:*

*EINECS (EU), TSCA (US), AIIIC (AUS), DSL/NDL (CA), PICCS (PH), KECL (KR), ENCS (JP), NZIoC (NZ), IECSC (CN), TCSI (TW)*

*Regulation (EC) 2024/590 - Substances that Deplete the Ozone Layer: not regulated / not applicable*

*Regulation on Persistent Organic Pollutants (POP): not listed*

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## 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.*