

11420 - 11424 Fuchsite

Edition: 10.06.2004

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Information:

Product Name: Fuchsite
Article no.: 11420 - 11424
Application: Artists' and Restoration Material

Company: Kremer Pigmente GmbH & Co. KG
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization: Chrome-muscovite, a phyllosilicate

Fuchsite is a green variety of muscovite $K(Al, Cr)_2[(OH, F)_2/AlSi_3O_{10}]$

Chemically similar to muscovite: Contains up to 6 % Cr_2O_3 .

3. HAZARD IDENTIFICATION



Xn Harmful

R 20: Harmful by inhalation.

4. FIRST AID MEASURES

After inhalation: No special measures required.
After skin contact: No special measures required.
After eye contact: Rinse open eye for several minutes under running water. If symptoms persist consult eye specialist.
After ingestion: No special measures required.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Product itself is not combustible. All extinguishing agents are suitable.
Special hazards: None known.

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6. ACCIDENTAL RELEASE MEASURES

Person-related safety measures: Avoid dust formation. See section 8.
Methods of cleaning/absorption: Take-up product mechanically. Avoid the formation of dust.
Fill into an adequate container and dispose accordingly.
Additional information: Recycling should be given preference over disposal.

7. HANDLING AND STORAGE

Handling

Instructions on safe handling: Avoid the formation of dust. Work in a well-ventilated area.
Follow the safety measures in section 8.

Information on fire and explosion protection: No special measures necessary.

Storage

Storage conditions: Store in the closed original packaging in a dry area.
Storage classification: 13 (VCI Concept)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical systems: Local exhaust; apply adequate measures according to the exposure limits.

Exposure limits (MAK) 6 mg/m³

Personal Protection:

Hygiene measures: Wash hands and face before and after breaks. Do not inhale dust.
Do not eat, drink or smoke while working.

Respiratory protection: When dust limit is exceeded: use a dust respirator P2

Hand protection: Not required.

Eye protection: Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: powder
Color: green
Odor: odorless

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Fuchsite stone analysis (weight%):

	1	2
SiO ₂	44.4	45.97
TiO ₂	2.1	
Al ₂ O ₃	44.4	45.97
Cr ₂ O ₃	2.1	4.81
Fe ₂ O ₃		2.56
FeO	2.3	0.53
MgO	0.7	0.31
Na ₂ O	1.1	1.03
K ₂ O	10.7	9.07
H ₂ O	4.7	3.99
CaO, MnO		

1. Acworth Township, New Hampshire (1957)
 2. Point du Boise, Manitoba (1946)
- Compare also with C. Hintze, H.B. der Mineralogie, Bd II, 1897

Solubility:

Chemically very stable; vulnerable to acids only a very high temperatures and pressures.

Physical properties:

Hardness: 2 - 2 Mohs
Density: 2.8 - 2.9 (a little bit higher than that of muscovite)
Cleavage: lamellar
Tenacity: mild - brittle
Refraction of light: $n = 1.56 - 1.61$; Pleochromatism blue - yellow-green - green
Color emerald green, grass green
Chromophore: Cr₃₊

10. STABILITY AND REACTIVITY

Stability: Stable up to 700°C. Decomposes at high temperatures to KAlSi₃O₈ und Al₂O₃.

11. TOXICOLOGICAL INFORMATION

Harmful by inhalation.

12. ECOLOGICAL INFORMATION

No negative ecological effects known.

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13. DISPOSAL CONSIDERATIONS

Product: Waste must be disposed of in accordance with national and local environmental control regulations. Material should be covered to protect against airborne dust.

14. TRANSPORT INFORMATION

Transport/Additional information: Non-hazardous.

15. REGULATORY INFORMATION

Designation according to EC guidelines:



Xn Harmful

Risk Phrases:

R 20: Harmful by inhalation.

National Regulations (D):

Water hazard class: not hazardous for water.

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 therefore not be construed as guaranteeing specific properties.