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



47700 Graphite Powder Silver

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

1. 1. Product Identifier

Product Name: Graphite Powder Silver

Article No.: 47700

UFI: -

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

Identified uses:

Lubricant Filler Material Pencil lead

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)

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:

Other Hazards

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2. 3.

Dust can from ignitable mixtures with air - Risk of dust explosion. Slightly irritating to skin and mucous, predominantly caused by mechanical effect.

3. Composition/Information on Ingredients

3. 1. Substance

3. 2. Mixture

Chemical Characterization: Natural graphite, CAS No. 999999-99-4 (natural occuring substance);

EINECS 310-127-6

Information on Components / Hazardous

Ingredients:

Additional information:

Exempted from the mandatory REACH Registration (Annex V No.

7)

4. First Aid Measures

4. 1. Description of the First Aid Measures

General information:

Remove contaminated clothes.

Place and transport in stable side position.

If complaints or symptoms occur seek medical treatment.

After inhalation:

Supply fresh air. Consult physician if symptoms persist.

After skin contact:

Wash with soap and rinse with plenty of water.

After eye contact:

Protect unharmed eye. Remove contact lens.

Rinse open eye for several minutes under running water. Should

irritation continue, seek medical advice.

After ingestion:

Drink plenty of water. Get medical help in case of discomfort.

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:

Mineral dust.

Treat symptomatically.

5. Fire-Fighting Measures

5. 1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO2), water, dry sand.

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Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

Water with full jet.

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

Special hazards:

In case of fire: formation of carbon monoxide and dioxide.

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:

Wear protective clothing.

Floor may be slippery; use care to avoid falling.

6. 2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

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

Methods and material:

Clean up mechanically. Avoid dust formation.

6. 4. Reference to other Sections

For information for safe handling see Section 7.

7. Handling and Storage

7. 1. Precautions for Safe Handling

Instructions on safe handling:

Avoid formation of dust. Do not inhale dust.

Avoid formation and deposition of dust. Provide adequate

ventilation.

Avoid contact with eyes, skin and clothing.

Provide adequate ventilation.

Carry out filling operations only at sites with extractors available.

Hygienic measures:

Do not inhale dust. Wash hands before breaks and at the end of

work.

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

Storage conditions:

Store in tightly sealed containers in a dry and cool room.

Requirements for storage areas and

containers:

It is not permitted to store the product in passages, passageways,

halls, on roofs, in attics and working rooms.

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Do not use food containers. Danger of confusion!

The containers should be durably labelled.

Preferably store in the original container

Information on fire and explosion

protection:

Combustible material.

Dust may form an explosive mixture with air.

Take measures to prevent electrostatic discharge.

Vacuum dust on site.

Keep away from dust and heat sources.

Do not store together with flammable products.

Do not store together with: oxidants.

Do not store together with: foodstuffs, medicinal products and

animal feed.

Do not store together with: infectious, radioactive and explosive

substances.

Storage class:

11; Combustible solids (TRGS 510)

Further Information:

Only substances with the same storage group should be stored

together.

7. 3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8. 1. Parameters to be Controlled

Parameters to be controlled (DE):

Long-term value: 0.65 mg/m3 (airborne fraction); 4 mg/m3

(inhalable fraction)

Parameters to be controlled:

Derived No-Effect Level (DNEL):

813 mg/kg bw/d (consumer, swallowing, long-term exposition -

systemic effects)

0.3 mg/m3 (consumer, inhalation, long-term exposition - local

effects)

1.2 mg/m3 (worker, inhalation, long-term exposition - local effects)

Predicted No-Effect Concentration (PNEC):

Additional Information:

8. 2. Exposure Controls

Technical protective measures:

Preferably handle in a closed system.

Care for very good ventilation of the working room.

Vacuum dust on site.

Personal Protection

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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.

Wash contaminated clothes before reuse.

Respiratory protection:

Dust mask recommended when very dusty (with particle filter P1).

Hand protection:

Not required

Protective glove material:

Eye protection:

Recommended in case of extreme dust formation (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

No special measures required.

9. **Physical and Chemical Properties**

9. 1. Information on Basic Physical and Chemical Properties

Form: solid

Color: gray, black

Odor: odorless

Odor threshold:

not determined

pH-Value:

neutral - weakly acid

Melting temperature: 3550°C

Boiling temperature: 3750°C (sublimation)

Flash point:

not applicable

Evaporation rate:

not applicable

Flammability (solid, gas):

not applicable

Upper explosion limit:

not determined

Lower explosion limit:

not determined

Vapor pressure:

not applicable

Vapor density:

No information available.

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Revised edition: 11.11.2019 Version: 2 Printed: 08.09.2021 2.26 g/cm3 (20°C) Density: Solubility in water: < 0.001 g/l (20°C) Coefficient of variation (n-Octanol/Water): not determined Auto-ignition temperature: not determined Decomposition temperature: not determined Viscosity, dynamic: not applicable Explosive properties: Basically, fine graphite dust can detonate unter certain conditions. The data on the dust explosions of natural graphite depend on the purity and particle size distribution. Risk of dust explosion (Category ST1). Oxidizing properties: no information available Bulk density: 9. 2. **Further Information** Solubility in solvents: Viscosity, kinematic: Burning class: Solvent content: Solid content: Particle size: Other information: Ignition temperature: > 500°C Stability and Reactivity 10.

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**

Ignition hazard and formation of inflammable gases or vapors with:

fluorine and chlorine trifluoride.

10.4. **Conditions to Avoid**

Conditions to avoid:

Protect from heat. Avoid humidity.

Thermal decomposition:

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10.5. Imcompatible Materials

Strong oxidizing agents.

10.6. Hazardous Decomposition Products

In the event of fire: see part 5.

10.7. Further Information

11. Toxicological Information

11. 1. Information on Toxicological Effects

No toxicity expected.

Acute Toxicity

LD50, oral: > 2000 mg/kg (rat; OECD 401)

NOAEL: 813 mg/kg bw/day (rat; OECD 422)

LD50, dermal:

No information available.

LC50, inhalation: > 2000 mg/m3 (4h, rat; OECD 403)

NOAEC: 12 mg/m3 (rat; OECD 412)

Primary effects

Irritant effect on skin:

No irritant effect known.

Irritant effect on eyes:

No irritant effect known.

Inhalation:

No irritant effect known.

Ingestion:

No irritant effect known.

Sensitization:

No sensitizing effects known.

Mutagenicity:

In vitro genetic-toxicity: Chromosomal Aberration Test (OECD

473): negative

In vitro genetic-toxicity: Ames-Test negative (OECD 471)

Reproductive toxicity:

No teratogenic effect (rat; OECD 422)

Carcinogenicity:

Classification of the U.S. National Institute of Health in the Natioal Toxicology Program (NTP): Natural graphite containing cystalline silica (quartz) is classified by NTP as probably carcinogenic to

humans.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

Single exposure: insufficient information for a classification.

Repeated exposure: insufficient information for a classification.

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Additional toxicological information:

Aspiration hazard:

Prolonged exposure to excessive dust of natural graphite can

cause breathing difficulties.

Long-term chronic exposure to natural graphite can facilitate the

development of silicosis (pneumoconiosis)

12. Ecological Information

12. 1. Aquatic Toxicity

Crystalline natrual graphite is a chemically inert product, with no

impact on the environment.

Fish toxicity:

LC50: > 100 mg/l (96h, Pimephales promelas; OECD 203)

Daphnia toxicity:

EC50: > 100 mg/l (Daphnia magna; OECD 202)

Bacteria toxicity:

No data available.

Algae toxicity:

IC50: > 100 mg/l (72h, Pseudokirchneriella subcapitata; OECD

201)

12. 2. Persistency and Degradability

No information available.

12. 3. Bioaccumulation

The product is not hazardous to the aquatic system.

12. 4. Mobility

Product is not water soluble.

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. Other Adverse Effects

Water hazard class:

Not hazardous.

Behaviour in sewage systems:

Further ecological effects:

AOX Value:

13. Disposal Considerations

13. 1. Waste Treatment Methods

Product:

Residues should be used wherever possible; contaminated waste

should be used for energy (incineration).

European Waste Code (EWC):

010499 - Waste not otherwise specified

Uncleaned packaging:

Dispose of according to official local regulations.

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	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 annicable
	Managelina	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
	MDC	пот аррисаме
	IMDG:	
44.5	IATA:	
14. 5.	Environmental Hazards	None
14. 6.	Special Precautions for User	
	·	Not classified as a dangerous good under transport regulations.
14. 7.	Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code	
14. 8.	Further Information	
15.	Regulatory Information	
15. 1.	Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture	
	Water hazard class:	
		0, not hazardous (German Regulation)

Local regulations on chemical accidents:

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Seveso III Directive: not applicable under Directive 2012/18/EC.

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

Total dust, including fine dust:

The emissions of the exhaust fumes must not exceed the following

values: Mass flow: 0.20 kg/h; mass concentration: 20 mg/m3.

15. 2. **Chemical Safety Assessment**

A Chemical Safety Assessment has not been carried out for this

product.

Further Information 15.3.

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.