

1. Identification of the Substance/Preparation and CompanyProductname: **Elgraph® Superior Grade**

Application: Raw material to steel and foundry industry.

Address/PhoneNo.: **Elkem Carbon AS**
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NO-4675 Kristiansand, Norway
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Stian Madshus, e-mail: stian.madshus@elkem.no

Emergency PhoneNo.: Not applicable

2. Hazards Identification

The product does not represent a hazard to health, safety or environment when handled and stored as advised. See section 7.

Product classification and labelling: Not subject to classification according to :

- Commission Directive 67/548/EEC .
- Regulation (EC) No 1272/2008

3. Composition/Information on Ingredients

Constituents:

Synthetic graphite: Weight%
100CASNo.: 7782-42-5
EINECSNo.: 231-955-3

4. First Aid Measures

Inhalation: Fresh air. See a physician on persistent feeling of discomfort.
Skin contact: Wash contaminated skin with water and /or mild detergent.
Eye contact: Rinse eyes with water/saline solution. See a physician on persistent feeling of discomfort.
Ingestion: Remove the person affected from dust-exposed area. See inhalation.

5. Fire Fighting Measures

Extinguishing media: Water spray, CO₂.

The product is stable at temperatures up to 500 °C. During combustion, the product will release small amounts of sulphur dioxide (SO₂).

6. Accidental Release Measures

Material in the form of dust should be collected in suitable containers. Avoid handling that generates dust build-up. Residues may be delivered to approved incineries.

7. Handling and Storage

Handling: Avoid generating airborne dust. Avoid inhalation of dust. See section 8.
Storage: Keep dry in closed containers, silos or dust-tight big-bags.

8. Exposure Controls/Personal Protection

A) Occupational exposure controls:

Ensure good dust ventilation. Wear a particulate respirator according to EN 149 FFP2 in areas of inadequate ventilation. Protective gloves, eye protection, eye flushing facilities and respiratory protection. Avoid inhalation of dust. Avoid contact with skin and eyes.

Occupational Exposure Limits (HSE, EH40/2005):

	CAS-number	8hr TWA ppm	mg/m ³	Comments
Graphite:	7440-44-0			
total inhalable dust	-	10	-	-
respirable dust	-	4	-	-

B) Environmental exposure controls

Target value and limit value for PM₁₀ and PM_{2.5} (Directive 2008/50/EC):

	Averaging period	Limit value	By date
PM ₁₀	One day	50 µg/m ³ ★	1 January 2005
PM ₁₀	Calendar year	40 µg/m ³	1 January 2005
		Target value	
PM _{2.5}	Calendar year	25 µg/m ³	1 January 2010
		Limit value	
PM _{2.5}	Calendar year	25 µg/m ³	1 January 2015

★ Not to be exceeded more than 35 times a calendar year.

9. Physical and Chemical Properties

Form : Grains.
Colour : Black.
Odour : None.
Solubility : Insoluble.
Solubility (Organic solvents) : Insoluble.
Conductivity ($\mu\Omega\text{m}$) : 50-150
Density (kg/m^3) : 2100-2250

10. Stability and reactivity

Conditions to avoid:

-

Materials to avoid:

-

Hazardous Decomposition Product(s):

During combustion, the product will release small amounts of sulphur dioxide (SO_2).

11. Toxicological Information

Acute effects:

INGESTION: Dust may cause irritation and dehydration of mucous membranes.
INHALATION: Dust may cause irritation and dehydration of mucous membranes.
SKIN CONTACT: Dust may cause irritation and dehydration.
EYE CONTACT: Dust may cause irritation and dehydration.

Chronic effects:

Handling of the product, that entails generation of respirable dust, after long-term exposure (years) for concentrations above recommended occupational exposure limits, may lead to pneumoconiosis.

12. Ecological Information

The product is not characterised as dangerous for the environment.

MOBILITY: The product is not mobile in the environment under normal environmental conditions.
PERSISTENCE: Not relevant for inorganic substances.
BIOACCUMULATION: Not relevant, due to low mobility and non-dispersive use.
ECO-TOXICITY: $\text{LC}_{50}/\text{LD}_{50}$: Not determined. Hardly relevant for inorganic, insoluble substances.

13. Disposal Considerations

The material should be recovered for recycling where possible.
Waste from the product is not considered as hazardous waste according to Commission Decisions 2000/532 /EC and 2001/118/EC.
Prior to disposal of large quantities of this material, advice should be sought from the local Environment Agency office.

14. Transport Information

UN -
IMDG/IMO Not subject to classification
ADR/RID Not subject to classification
ICAO/IATA Not subject to classification

15. Regulatory Information

The text of this Safety Data Sheet is prepared in compliance with:

- Commission Directive 67/548/EEC.
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

16. Other Information

Literature references are available upon application to the manufacturer.