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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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

### 1.1. Product identifier

Product Name	Graphite Ink
CAS No.	Not applicable
EC No.	Not applicable
REACH Registration No.	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration.

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

Identified Use(s)	PC21 Laboratory chemicals
Uses Advised Against	No data available

### 1.3 Details of the supplier of the safety data sheet

Company:	Redoxme AB
Address:	Box 5002 Kungsgatan 41 600 05 Norrköping SWEDEN
Telephone:	+46 700 89 62 86
E-mail:	info@redox.me

### 1.4 Emergency telephone number

Emergency Phone No.	112 / 911
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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Not hazardous

### 2.2 Label elements

#### Labelling according Regulation (EC) No 1272/2008

Hazard Pictogram(s)	None
Signal Word(s)	None
Hazard Statement(s)	None
Precautionary Statement(s)	None

### 2.3 Other hazards

No data available

### 2.4 Additional Information

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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**SAFETY DATA SHEET**

---

according to Regulation (EC) No. 1907/2006

---

**SECTION 3: Composition/information on ingredients****3.1 Mixtures**

INGREDIENT(S)	CAS No.	EC No.	%W/V	Hazard Statement(s)	Comments
Graphite	7782-42-5	-	10-30%	-	-
Carbon black	1333-86-4	-	1-5%	-	-

No components need to be disclosed according to the applicable regulations.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**Inhalation**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**Skin Contact**

Wash off with soap and plenty of water.

**Eye Contact**

Flush eyes with plenty of water for at least 15 minutes. Consult a physician.

**Ingestion**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3. Indication of any immediate medical attention and special treatment needed**

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable Extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media**

None.

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides and/or low molecular weight hydrocarbons.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment (section 8). Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure room is well ventilated.

#### 6.2 Environmental precautions

Do not let product enter drains.

#### 6.3 Methods and materials for containment and cleaning up

Contain and clean up spill if safe to do so using saw dust or absorbent mats. Dispose of in suitable closed container according to local regulations.

#### 6.4 Reference to other sections

For disposal see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Avoid breathing vapours or mists of this product. Provide appropriate exhaust ventilation at places where mist is formed. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry and well-ventilated place inside of a tightly sealed container. Reseal containers that have been opened and keep upright to prevent leakage. Avoid elevated temperatures.

<b>Storage temperature</b>	5 - 30°C
<b>Storage life</b>	Stable under recommended storage conditions.
<b>Incompatible materials</b>	Acids

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### 8.1.1 Occupational Exposure Limits

INGREDIENT	CAS No.	ACGIH TLV	STEL	Note
Graphite	7782-42-5	2 mg/m <sup>3</sup> TWA Respirable fraction.	5 mg/m <sup>3</sup> PEL Respirable fraction. 15 mg/m <sup>3</sup> PEL Total dust. 15 MPPCF TWA	-
Carbon black	1333-86-4	3 mg/m <sup>3</sup> TWA Inhalable fraction.	3.5 mg/m <sup>3</sup> PEL	-

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial/laboratory practices hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 8.2.2. Personal protection equipment



Eye Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).



Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.



Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### 8.2.3. Environmental Exposure Controls

Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Liquid
	Colour: Black
Odour	No data available
Odour threshold	No data available
pH	8.0 -9.0
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash Point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	17 mm hg calculated
Vapour density	No data available
Density (g/ml)	1.11 -1.12
Relative density	No data available
Solubility	Solubility (Water): Disperses in water as a suspension Solubility (Other): No data available

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## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

---

Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition Temperature (°C)	No data available
Viscosity	50 -200 cp
Explosive properties	No data available
Oxidising properties	No data available

### 9.2 Other safety information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Acids

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: Carbon oxides and/or low molecular weight hydrocarbons.

Other decomposition products: No data available

In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity - Ingestion	Carbon black: Oral LD50(RAT)= > 8,000 mg/kg
Acute toxicity - Skin Contact	No data available
Acute toxicity - Inhalation	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Skin sensitization data	No data available
Respiratory sensitization data	No data available
Germ cell mutagenicity	There is no known mutagenic potential
Carcinogenicity	Possible human carcinogen IARC:2B-Group 2B: Possibly carcinogenic to humans (Carbon black)
Reproductive toxicity	No data available
Lactation	No data available

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## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

---

STOT - single exposure	No data available
STOT - repeated exposure	No data available
Aspiration hazard	No data available

### 11.2 Other information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12: Ecological information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations and directives on waste and hazardous waste. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

Not classified as hazardous for transport.

### 14.1 UN number

Not applicable

### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods

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## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

---

IMDG: Not dangerous goods

IATA: Not dangerous goods

### 14.3 Transport hazard class(es)

Not applicable

### 14.4 Packing group

Not applicable

### 14.5 Environmental hazards

ADR/RID: No

IMDG: Not classified as marine pollutant

IATA: No

### 14.6 Special precautions for user

No data available

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.2 Chemical safety assessment

No chemical safety report/assessment was carried out for this product.

## SECTION 16: Other information

### Acronyms

ADR : European Agreement Concerning the International Carriage of Dangerous Goods by Road

CAS : Chemical Abstracts Service

CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

DNEL : Derived No Effect Level

EC : European Community

EC50 : Effective Concentration 50%

IARC : International Agency for Research on Cancer

IATA : International Civil Aviation Organization/International Air Transport Association

IMDG - International Maritime Dangerous Goods Code

LC50 : Lethal Concentration 50%

LD50 : Lethal Dose 50%

LTEL : Long term exposure limit

OECD : Organisation for Economic Co-operation and Development

PBT : Persistent, Bioaccumulative, Toxic

PNEC : Predicted No Effect Concentration

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL : Short term exposure limit

STOT : Specific Target Organ Toxicity

SVHC : Substances of Very High Concern

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## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

---

TWA : Time-Weighted Average

vPvB : very Persistent, very Bioaccumulative

### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Redoxme AB shall not be held liable for any damage resulting from handling or from contact with the above product. Freedom under Patents, Copyright and Designs cannot be assumed.