




Safety Data Sheet

Date of Print:

according to 1907/2006/EC, Article 31

Version: 1.0

| SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking | |
|---|--|
| 1.1 | <p>Product Identifier Substance name: SupraNano Black Latent Fingerprint Powder Product no.: 01BLK060</p> |
| 1.2 | <p>Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Relevant identified uses: Professional Uses [SU 22]; Law enforcement/forensic applications. [PCO] Other; Fingerprint development Uses advised against: No further relevant information available</p> |
| 1.3 | <p>Details of Supplier of Safety Data Sheet Manufacturer: SceneSafe Ltd Address: Midas House 8&9 Burnham Business Park Springfield Road Burnham-on-Crouch, Essex CM0 8TE United Kingdom www.scenesafe.co.uk</p> |
| 1.4 | <p>Emergency Telephone Number Telephone number: +44 (0) 1621 786654 (Languages: English) Opening hours: Monday – Friday, 0900 - 1700</p> |

| SECTION 2: Hazards Identification | |
|-----------------------------------|--|
| 2.1 | <p>Classification of the Substance or Mixture 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]</p> <p> GHS02 Warning Flam. Sol. 2 H228 Flammable solid</p> <hr/> <p> GHS07 Warning Eye Irrit. 2 H319 Causes serious eye irritation STOT SE 3 H335 May cause respiratory irritation</p> <hr/> <p> GHS08 Warning Carc. 2 H351 Suspected of causing cancer</p> |
| 2.2 | <p>Labelling according to Regulation (EC) No 1272/2008 [CLP]: This mixture is classified and labelled according to the CLP regulation</p> <p>Hazard pictograms: GHS02, GHS07, GHS08 Signal word: Warning Hazard statements: H228 Flammable solid H319 Causes serious eye irritation H335 May cause respiratory irritation H351 Suspected of causing cancer</p> <p>Precautionary statements: P201 Obtain special instructions before use P210 Keep away from heat, hot surfaces sparks, open flames and other ignition sources. No smoking P241 Use explosion-proof electrical/ventilating/lighting/equipment P261 Avoid breathing dust/fume/gas/mist/vapours/spray P280 Wear protective gloves/protective clothing. Eye protection/face protection P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice /attention. P308+P313 IF exposed or concerned: Get medical advice/attention.</p> |

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| | P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| 2.3 | Supplemental hazard information (EU): | Not applicable |
| | Other Hazards | |
| | Care should be taken to avoid dust formation. | |

SECTION 3: Composition/Information on Ingredients

3.2 Mixtures

| Description of Mixture: Black Powder | | | | | |
|---|-----------|------------|--------------------|---|--|
| Hazardous Ingredients: Carbon black, iron (II,III) oxide | | | | | |
| CAS No. | EC No. | % [Weight] | Name | Classification according to Regulation (EC) No. 1278/2008 (CLP) | Classification according to Directive 67/548/EEC or Directive 1999/45/EC |
| 1333-86-4 | 215-609-9 | 5 – 15% | Carbon Black | Flam. Sol. 2, H228 Carc. 2, H351 | F; Highly flammable, R11 X _n ; Harmful, R40 |
| 1317-61-9 | 215-277-5 | 5 – 15% | Iron(II,III) Oxide | Flam. Sol. 2, H228 Eye Irrit. 2, H319 STOT SE 3, H335 | X _i ; Irritant, R36/R37/R38 |

SECTION 4: First Aid Measures

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| 4.1 | Description of First Aid Measures | |
| | Following inhalation: | Supply fresh air. If required, provide artificial respiration. Keep warm. Consult doctor if symptoms persist. Seek immediate medical advice. |
| | Following skin contact: | Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice |
| | Following eye contact: | Rinse opened eye for several minutes under running water. Then consult doctor. |
| | Following ingestion: | Seek medical treatment |
| 4.2 | Most Important Symptoms and Effects, Both Acute and Delayed | |
| | If ingested: | Irritating if swallowed; redness of mouth and throat may occur. |
| | If inhaled: | Absorbtion through the lungs, and redness of mouth and throat may occur. Chronic lung conditions may be aggravated by high concentrations of dust. |
| | If contact with skin: | Mild irritation at site of contact |
| | If contact with eyes: | Mild irritation and redness |
| 4.3 | Indication of Any Immediate Medical Attention and Special Treatment Needed | |
| | No further relevant information available | |

SECTION 5: Firefighting Measures

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| 5.1 | Extinguishing Media | |
| | Suitable extinguishing media: | In case of fire, use sand, carbon dioxide or powdered fire extinguisher. Never use water. |
| | For safety reasons unsuitable extinguishing agents: | Water |
| 5.2 | Special Hazards Arising from the Substance or Mixture | |
| | If this product is involved in a fire, the following can be released: | Metal oxide, carbon monoxide and carbon dioxide |
| 5.3 | Advice for Firefighters | |
| | Protective equipment: | Wear self-contained breathing apparatus. Wear full protective suit. |
| | Hazardous combustion products/special hazards: | Fine, dry dust suspensions can explode in presence of ignition. Combustion produces carbon monoxide, carbon dioxide, smoke, soot and minor amount of nitrogen oxides and sulphur. |

SECTION 6: Accidental Release Measures

- 6.1 Personal Precautions, Protective Equipment and Emergency Procedures**
Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Refer to section 8 for personal protection. Do not create dust.
- 6.2 Environmental Precautions**
Do not allow material to be released to the environment without proper government permits. Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.
- 6.3 Methods and Material for Containment and Cleaning Up**
Keep away from ignition sources. Ensure adequate ventilation. Vacuum or sweep and transfer to a sealable, labelled container and dispose according to local regulations.
- 6.4 Reference to Other Sections**
See section 7 for information on safe handling
See section 8 for information on personal protection equipment
See section 13 for information on disposal.

SECTION 7: Handling and Storage

- 7.1 Precautions for Safe Handling**
Keep containers tightly sealed. Store in a cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Avoid formation of dust. Minimise release of the mixture into the environment.
Information about protection against explosions and fires: Protect against electrostatic charges.
- 7.2 Conditions for Safe Storage, Including any Incompatibilities**
Store in a cool, well-ventilated location. Store in a cool location. Keep away from oxidising agents. Keep container tightly closed until in use.
- 7.3 Specific End Use(s)**
The intended use of the product is for the visualisation of latent fingerprints only. The powder should be picked up using a suitable brush, ensuring excess powder is tapped back into the jar. The powder should be brushed gently across the surface of the mark to allow for visualisation. Waste powder should be transferred to a sealable container. See section 13 for information regarding disposal.
- 7.4 Reference to Other Sections:**
See section 13 for information on disposal.

SECTION 8: Exposure Controls/Personal Protection

- 8.1 Control Parameters** Not required.
- 8.2 Exposure Controls**
- Personal Protective Equipment**
- General protective and hygienic measures:** The usual precautionary measures should be adhered to in handling chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any impregnated garments. Wash hands during breaks and at the end of work. Avoid contact with eyes and skin. Handle in accordance with good industrial hygiene and safety practice by using adequate ventilation and personal protection as needed. Maintain an ergonomically appropriate working condition.
- Breathing equipment:** Not required in unconfined or well-ventilated areas. Use NIOSH or EU EN149 standard approved respirators for areas where general ventilation is not possible.
- Protection of hands:** Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- Material of gloves:** Impervious gloves
- Penetration time of glove material:** Not determined.
- Eye protection:** Safety glasses or splash goggles are advised to be worn while handling.
- Body protection:** Protective work clothing.

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

General Information

Appearance:

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| Form: | Powder |
| Colour: | Black |
| Smell: | Not determined |
| Odour threshold: | Not determined |

pH-value: Not applicable

Change in condition

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|--------------------------------|----------------|
| Melting point/range: | Not determined |
| Boiling point/range: | Not determined |
| Sublimation temperature/start: | Not determined |

Inflammability (solid, gaseous)

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|----------------------------|----------------|
| Ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |
| Self-inflammability: | Not determined |

Danger of explosion

Critical values for explosion:

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|--------|----------------|
| Lower: | Not determined |
| Upper: | Not determined |

Steam pressure: Not applicable

Density at 20 °C: Not determined

Settled apparent density at 20 °C: Not determined

Relative density: Not determined

Vapour density: Not applicable

Evaporation rate: Not applicable

Solubility in / Miscibility with water: Insoluble in water and solvents, dispersible in liquids

Partition coefficient (n-octanol/water): Not determined

Viscosity:

| | |
|------------|----------------|
| Dynamic: | Not applicable |
| Kinematic: | Not applicable |

9.2 Other Information: No further relevant information available

SECTION 10: Stability and Reactivity

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|------|---|--|
| 10.1 | <u>Reactivity</u> | No information known |
| 10.2 | <u>Chemical Stability</u> | Stable under recommended storage conditions |
| | <u>Thermal Decomposition/conditions to avoid:</u> | No decomposition if used and stored according to specifications. |
| 10.3 | <u>Possibility of Hazardous Reactions</u> | Reacts with strong oxidising agents |
| 10.4 | <u>Conditions to Avoid</u> | Do not expose to heat above 300 °C. Keep away from oxidising agents in order to avoid exothermic reactions. |
| 10.5 | <u>Incompatible Materials</u> | Oxidising agents such as chlorates, bromates and nitrates. |
| 10.6 | <u>Hazardous Decomposition Products</u> | Metal oxide, carbon monoxide, carbon dioxide and oxides of sulphur. In combustion emits smoke, soot and toxic fumes. |

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

11.1.1 Acute toxicity:

| Hazardous components | EC No. | CAS no. | LC/LD ₅₀ values relevant for classification |
|----------------------|-----------|-----------|--|
| Carbon Black | 215-609-9 | 1333-86-4 | Oral LD ₅₀ : 15400 mg/kg (rat) Skin LD ₅₀ : 3000 mg/kg (rabbit) |
| Iron(II,III) Oxide | 215-277-5 | 1317-61-9 | No effects known |

| | |
|--------------------------------------|--------------------------------|
| Skin irritation or corrosion: | May cause irritation |
| Eye irritation or corrosion | Causes serious eye irritation. |
| Sensitization: | No sensitizing effect known. |
| Germ cell mutagenicity: | No effects known. |

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| Carcinogenicity: | CARBON BLACK: Suspected of causing cancer. IARC-2B: Possibly carcinogenic to humans; limited evidence in humans in absence of sufficient evidence in experimental animals. ACGIH: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals. |
| Reproductive toxicity: | No effects |
| Specific organ system toxicity | |
| Repeated exposure: | No effects known. |
| Single exposure: | May cause respiratory irritation. |
| Aspiration hazard: | No effects known |
| Other information (experimental toxicity): | CARBON BLACK: Mutagenic effects have been observed on tests with bacteria and with laboratory animals. |
| Additional toxicological information: | The acute and chronic toxicity of this substance is not fully known. |

SECTION 12: Ecological Information

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| 12.1 | <u>Toxicity</u> | |
| | Aquatic toxicity: | No further relevant information available |
| 12.2 | <u>Persistence and Degradability:</u> | No further relevant information available |
| 12.3 | <u>Bioaccumulative Potential:</u> | No further relevant information available |
| 12.4 | <u>Mobility in Soil:</u> | No further relevant information available |
| | Additional ecological information: | Do not allow material to be released to the environment without proper government permits. Generally not hazardous for water. Avoid transfer into the environment. |
| 12.5 | <u>Results of PBT and vPvB Assessment</u> | |
| | PBT: | Not applicable |
| | vPvB: | Not applicable |
| 12.6 | <u>Other Adverse Effects:</u> | No further relevant information available. |

SECTION 13: Disposal Considerations

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|-------------|---------------------------------------|--|
| 13.1 | <u>Waste Treatment Methods</u> | |
| | Recommendation: | Hand over to disposers of hazardous waste. Must be treated under adherence to official regulations. Consult state, local or national regulations for proper disposal of used and unused product. |
| | Packaging: | Disposal must be in line with official regulations. |

SECTION 14: Transport Information

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|-------------|--|----------------|
| 14.1 | <u>UN Number:</u> | Not applicable |
| 14.2 | <u>UN Proper Shipping Name:</u> | Not applicable |
| 14.3 | <u>Transport Hazard Class(es):</u> | Not applicable |
| 14.4 | <u>Packing Group</u> | Not applicable |
| 14.5 | <u>Environmental Hazards:</u> | Not applicable |
| 14.6 | <u>Special Precautions for User:</u> | Not applicable |
| 14.7 | <u>Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code:</u> | Not applicable |

SECTION 15: Regulatory Information

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|-------------|--|--|
| 15.1 | <u>Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture</u> | No data available |
| 15.2 | <u>Chemical Safety Assessment</u> | No Chemical Safety Assessment has been carried out for this mixture by the supplier. |

SECTION 16: Other Information**16.1 Disclaimer:**

The above information is believed to be correct, however it does not proclaim to be all-inclusive and shall be used only as a guide. SceneSafe Ltd shall not be held liable for any damage from handling or contact with the above product. Independent judgement of the suitability of this product should be exercised in supplement to this information to ensure proper use and protect the health and safety of employees.

- (i) **Abbreviations and acronyms:**
- | | |
|--------------------|---|
| GHS: | Globally Harmonized System of Classification and Labelling of Chemicals |
| CAS: | Chemical Abstracts Service (division of the American Chemical Society) |
| LC ₅₀ : | Lethal concentration, 50 percent |
| LD ₅₀ : | Lethal dose, 50 percent |

(ii) **Key literature references and sources for data**

Toxicity Values: Retrieved from Toxicology Data Network <http://toxnet.nlm.nih.gov/>

This SDS has been compiled and is solely intended for this product.