

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 Product Identifier**
Substance name: SupraNano Fluorescent Yellow Magnetic Latent Fingerprint Powder
Product no.: 02FYW030
- 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against**
Relevant identified uses: Professional Uses [SU 22]; Law enforcement/forensic applications. [PC0] Other; Fingerprint development
Uses advised against: No further relevant information available
- 1.3 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
- 1.4 Emergency Telephone Number**
Telephone number: +44 (0) 1621 786654 (Languages: English)
Opening hours: Monday – Friday, 0900 - 1700

SECTION 2: Hazards Identification

- 2.1 Classification of the Substance or Mixture**
2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]
-  GHS02 Warning
 Flam. Sol. 2 H228 Flammable solid
-  GHS07 Warning
 Eye Irrit. 2 H319 Causes serious eye irritation
 STOT SE 3 H335 May cause respiratory irritation
- 2.2 Labelling according to Regulation (EC) No 1272/2008 [CLP]:**
 This mixture is classified and labelled according to the CLP regulation
- Hazard pictograms:** GHS02, GHS07
Signal word: Warning
Hazard statements: H228 Flammable solid
 H319 Causes serious eye irritation
 H335 May cause respiratory irritation
Precautionary statements: 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.
 P405 Store locked up
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Supplemental hazard information (EU):** Not applicable
- 2.3 Other Hazards**
 Care should be taken to avoid dust formation.

SECTION 3: Composition/Information on Ingredients

3.2 Mixtures

Description of Mixture: Majority Iron Powder

Hazardous Ingredients: Iron Powder

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
7439-89-6	231-096-4	97.1	Iron Powder	Flam. Sol. 2, H228 Eye Irrit. 2, H319 STOT SE 3, H335	F; Highly flammable, R11 Xi; Irritant, R36/R37

SECTION 4: First Aid Measures

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: Absorption 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

5.1 Extinguishing Media

Suitable extinguishing media: Special powder for metal fires. Do not 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. Do not store above 120 °F/48 °C. 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 fingermarks only. The powder should be picked up using a magnetic brush, ensuring excess powder is tapped back into the jar. The formed brush head should be wiped 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:

Form: Powder, iron based

Colour: Fluorescent yellow

Smell: Not determined

Odour threshold: Not determined

pH-value: Not applicable

Change in condition

Melting point/range: Not determined

Boiling point/range: Not determined

Sublimation temperature/start: Not determined

Inflammability (solid, gaseous)

Ignition temperature: Not determined

Decomposition temperature:	Not determined
Self-inflammability:	Not determined
Danger of explosion	
Critical values for explosion:	
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

10.1	<u>Reactivity</u>	No information known
10.2	<u>Chemical Stability</u>	Stable under recommended storage conditions
	Thermal Decomposition/conditions to avoid:	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
Iron Powder	231-096-4	7439-89-6	Oral LD ₅₀ : 30000 mg/kg (rat)

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.
Carcinogenicity:	No effects
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):	None.
Additional toxicological information:	The acute and chronic toxicity of this substance is not fully known.

SECTION 12: Ecological Information

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	Results of PBT and vPvB Assessment
	PBT: Not applicable
	vPvB: Not applicable
12.6	Other Adverse Effects: No further relevant information available.

SECTION 13: Disposal Considerations

13.1	Waste Treatment Methods
	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

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

SECTION 15: Regulatory Information

15.1	Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture
	No data available
15.2	Chemical Safety Assessment
	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.