



Safety data sheet

according to UK REACH

Printing date 25.11.2025

Version number 1

Revision: 25.11.2025

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

- **Product identifier**
- **Trade name: Photoluminescent Pigments - RED (S) - 15µm to 35µm**
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** SU21 Consumer uses: Private households / general public / consumers
- **Application of the substance / the preparation** : Pigment
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
STARDUSTCOLORS SAS
ZA de Tesan
30126 St Laurent des Arbres
FRANCE
Tel : +33 466 50 61 66
Email : info@stardustcolors.com
Web : www.stardustcolors.com
- **Emergency telephone number:**
France (INRS 24h/24) - Tel : +33 (0)1 45 42 59 59
Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel: 112
Belgium - Brüssel: +32 070/245 245
UK : Call NHS 999 in a medical emergency. If you urgently need medical help or advice but it's not a life-threatening situation, call 111 (24/7). The NHS 111 number is currently only available in certain areas. If you're outside of these areas, you should call NHS Direct on 0845 4647
Swiss Toxicological Information Centre (Zürich) : +41 44 251 51 51 / www.toxi.ch.

SECTION 2: Hazards identification

- **Classification of the substance or mixture**
The product is not classified, according to the Globally Harmonised System (GHS).
- **Label elements**
- **GHS label elements** Not classified as hazardous
- **Hazard pictograms** Not classified as hazardous
- **Signal word** Not classified as hazardous
- **Hazard statements** Not classified as hazardous
- **Other hazards**
The mixture shall not contain substances listed in accordance with Article 59(1) R.E.A.C.H as having endocrine disrupting properties, or be recognised as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in a concentration equal to or greater than 0.1%.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **Mixtures**· **Description:** Preparation: composed of the substances listed below.· **Dangerous components:**

CAS: 1314-11-0	strontium oxide	50-100%
EINECS: 215-219-9		
CAS: 1344-28-1	aluminium oxide	25-50%
EINECS: 215-691-6		
RTECS: BD 1200000		
CAS: 1308-96-9	europium(III) oxide	<5.0%
EINECS: 215-165-6		
CAS: 1308-87-8	didysprosium trioxide	≤2.5%
EINECS: 215-164-0		
CAS: 7631-86-9	silicon dioxide, chemically prepared	<1.0%
EINECS: 231-545-4		
CAS: 147-14-8	Phthalocyanine Blue	
EINECS: 205-685-1		
CAS: 1328-53-6	PHTHALOCYANINE GREEN	
EINECS: 215-524-7		
CAS: 3068-39-1	3,6-bis(ethylamino)-9-[2-(methoxycarbonyl)phenyl]-2,7-dimethylxanthylium chloride	
EINECS: 221-326-1	⚠ Acute Tox. 2, H330; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 1, H410 (M=1); ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	
CAS: 39277-28-6	6-amino-1,3,5-triazine-2,4(1H,3H)-dione	
CAS: 68427-35-0	2-[7-(diethylamino)-2-oxo-2h-1-benzopyran-3-yl]-5-benzoxazolesulfonamide	
EINECS: 270-393-3		
CAS: 73398-89-7	3,6-bis(diethylamino)-9-[2-(methoxycarbonyl)phenyl]xanthyliumtetrachlorozincate	
EINECS: 277-459-0	⚠ Acute Tox. 3, H301; Acute Tox. 3, H331; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1)	

· **SVHC** Not applicable· **Additional information:** For the wording of the listed risk phrases, refer to section 16.

SECTION 4: First aid measures

· **Description of first aid measures**· **General information:** No special measures required.

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- **After inhalation:** Provide fresh air; consult a doctor in case of medical complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **Most important symptoms and effects, both acute and delayed :**
No further relevant information is available.
- **Indication of any immediate medical attention and special treatment needed :**
No further relevant information is available.

SECTION 5: Firefighting measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture :** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **Personal precautions, protective equipment and emergency procedures :** Not required.
- **For non-emergency personnel** No other relevant information available.
- **For emergency responders** No other relevant information available.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow the product to enter sewers/ surface water or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections :**
See Section 7 for information on safe handling.
See Section 8 for information on personal protective equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **Precautions for safe handling :** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.

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- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s) :** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
CAS: 1344-28-1 aluminium oxide (50-100%)
WEL (Great Britain) Long-term value: 10* 4** mg/m³
*inhalable dust **respirable dust
- **Additional information:**
The most current valid lists have been used as a basis for the production of this document.
- **Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** No special measures required.
- **Hand protection** No special measures required.
- **Gloves material :** Not applicable
- **Eye/face protection** No special measures required.

SECTION 9: Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Solid
- **Form:** Powder
- **Colour:** According to product specification
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Not determined.
- **Boiling point or initial boiling point and boiling range** Not determined.
- **Flammability** Not determined.
- **Lower and upper explosion limit**
- **Lower:** Not determined.

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· Upper:	Not determined.
· Flash point:	Not applicable.
· Auto-ignition temperature:	Not applicable.
· Decomposition temperature:	Not determined.
· pH	Mixture is non-polar/aprotic.
· Viscosity:	
· Kinematic viscosity	Not applicable.
· Kinematic:	Not applicable.
· Dynamic:	Not applicable.
· Solubility	
· water:	Insoluble.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not applicable.
· Density and/or relative density	
· Density at 20 °C:	>1 g/cm ³
· Relative density :	Not determined.
· Vapour density :	Not applicable.
· Other information :	
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not self igniting.
· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· COV (USA) :	0.00 %
· Change in condition	
· Evaporation rate :	Not applicable.
· Information with regard to physical hazard classes	
· Explosives	Not classified as hazardous
· Flammable gases	Not classified as hazardous
· Aerosols	Not classified as hazardous
· Oxidising gases	Not classified as hazardous
· Gases under pressure	Not classified as hazardous
· Flammable liquids	Not classified as hazardous
· Flammable solids	Not classified as hazardous
· Self-reactive substances and mixtures	Not classified as hazardous
· Pyrophoric liquids	Not classified as hazardous
· Pyrophoric solids	Not classified as hazardous
· Self-heating substances and mixtures	Not classified as hazardous
· Substances and mixtures, which emit flammable gases in contact with water	Not classified as hazardous
· Oxidising liquids	Not classified as hazardous

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· Oxidising solids	Not classified as hazardous
· Organic peroxides	Not classified as hazardous
· Corrosive to metals	Not classified as hazardous
· Desensitised explosives	Not classified as hazardous

SECTION 10: Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions :** No dangerous reactions known.
- **Conditions to avoid :** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**

CAS: 1344-28-1 aluminium oxide

Oral LD50 >5,000 mg/kg (rat)

CAS: 7631-86-9 silicon dioxide, chemically prepared

Oral LD50 5,000-10,000 mg/kg (rat)

Dermal LD50 >5,000 mg/kg (rat)
>5,000 mg/kg (rabbit)

Inhalative LC50/4 h >2,000 mg/l (rat)

CAS: 147-14-8 Phthalocyanine Blue

Oral LD50 2,000 mg/kg (rat)

CAS: 1328-53-6 PHTHALOCYANINE GREEN

Oral LD50 2,000 mg/kg (rat)

- **Primary irritant effect:**
- **On the skin:** Based on available data, the classification criteria are not met.
- **On the eyes:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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- **Aspiration hazard** Based on available data, the classification criteria are not met.

- **Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **Toxicity**

- **Aquatic toxicity:**

CAS: 1344-28-1 aluminium oxide

LC50 48h 14.6 mg/l (fish)

EC50 48h 38.2 mg/l (daphnia)

CAS: 7631-86-9 silicon dioxide, chemically prepared

EC50 >1,000 mg/kg (daphnia)

LC50 96h 10,000 mg/l (fish)

EC50 72h >10,000 mg/l (Algae)

EC50 96h >10,000 mg/l (fish)

EC50 24h >1,000 mg/l (daphnia)

- **Persistence and degradability** : No further relevant information available.

- **Bioaccumulative potential** : No further relevant information available.

- **Mobility in soil** : No further relevant information available.

- **Results of PBT and vPvB assessment**

- **PBT**: Not applicable.

- **vPvB**: Not applicable.

- **Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

- **Other adverse effects** : No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- **Waste treatment methods**

- **Recommendation** : Smaller quantities can be disposed of with household waste.

- **Uncleaned packaging:**

- **Recommendation**: Disposal must be made according to official regulations.

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SECTION 14: Transport information

- UN number or ID number
- DOT, ADR, IMDG, IATA none
- UN proper shipping name
- ADR, IMDG, IATA none
- Transport hazard class(es)
- ADR, ADN, IMDG, IATA
- Class none
- Packing group
- ADR, IMDG, IATA none
- Environmental hazards: Not applicable.
- Special precautions for user Not applicable.
- Maritime transport in bulk according to IMO instruments Not applicable.
- UN "Model Regulation": none

SECTION 15: Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Poisons Act
- Regulated explosives precursors

None of the ingredients is listed.
- Regulated poisons

None of the ingredients is listed.
- Reportable explosives precursors

None of the ingredients is listed.
- Reportable poisons

None of the ingredients is listed.
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.

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H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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