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|  Spectra Systems CORPORATION | SAFETY DATA SHEET according to GHS SpectraFluor® SFP-1420 UV Fluorescent Pigment Formerly L-142 Fluorescent Pigment | Date of issue: 08.13.2002 Revision date: 05.03.2018 Page: 1 / 5 | |
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1 Identification

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| Product name: | SpectraFluor® SFP-1420 UV Fluorescent Pigment |
| Synonyms: | L-142, C 142, Compound 142. Chemical Name withheld as Proprietary |
| CAS Number | Proprietary |
| Pregistration Number | |
| Product Use: | Printing Inks and/or varishes ingredient/component. |
| Manufacturer / Supplier | |
| Manufacturer: | Spectra Systems Corporation |
| Address: | 321 South Main Street Suite 102, Providence, RI 02903 USA |
| Telephone: | +401-274-4700 |
| General information: | Info@spsy.com |
| Emergency phone number | |
| Chemtrec 1-703-741-5970 | |


2 Hazards identification

| | |
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| Classification of the Substance: The substance is classified as dangerous. | |
| Dangerous physico-chemical properties: There are not known any dangerous physical or chemical properties sufficient for classification. | |
| Dangerous health effects: There are not known any dangerous effects on human health sufficient for classification. | |
| Dangerous environmental effects: Very toxic to aquatic life with long lasting effects. | |
| Classification of the substance or mixture: The full text of each relevant classification and hazard statement is listed in Section 16. | |
| Classification according to Regulation(EC) 1272/2008: Codes for hazard classes and categories and Hazard Codes phrase: Aquatic Acute 1; H400 Aquatic Chronic1; H410 | |
| Hazard Pictogram |  |
| Signal Word | Warning |
| Hazard statement(s) | H410 Very toxic to aquatic life with long lasting effects. |
| Precautionary statement(s) | P273 Avoid release to environment. |
| Other hazard which do not result in classification | |
| Not reported. | |

3 Composition / information on ingredients

| | | | |
|--|-------------------|------------------|-----------------|
| Substances | | | |
| <i>Common name, (synonyms, etc.)</i> | <i>CAS number</i> | <i>EC number</i> | <i>Weight %</i> |
| SpectraFluor® SFP-1420 UV Fluorescent Pigment | Proprietary | - | Cca 95 % |

4 First aid measures

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|--|--|---|--|

Description of first aid measures

Read and understand the SDS.

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| Inhalation: | Remove to fresh air. If not breathing gives artificial respiration. If breathing is difficult, give oxygen. Get medical aid. |
| Skin contact: | Wash with water and soap for at least 15 minutes, while removing contaminated clothes. |
| Eye contact: | Flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. Get medical aid. |
| Ingestion: | Wash mouth out with water. Get medical aid. |

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively. Show this Safety Data Sheet to physician.

5 Fire-fighting measures

Extinguishing media

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| Suitable extinguishing media | Dry chemical, carbon dioxide, water spray or chemical foam. |
| Unsuitable extinguishing media | Adapt to surrounding burning substances. |

Special hazards arising from the substance or mixture

Fire may liberate dangerous carbon and nitrogen oxides, hydrogen chloride.

Advice for firefighters

Protect against potential toxic and imitating fumes - gas mask.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe dust. Avoid contact with skin and eyes. Personal protective equipment listed in section 8.

Environmental precautions

To protect underground water of pollution of this material.

Methods and material for containment and cleaning up

Sweep up this into a plastic chemical waste container. Wash spill site, ventilate area.

7 Handling and storage

Precautions for safe handling

Handle in accordance with all current standards. Wash thoroughly after handling. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Do not breathe dust.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place, away from food.

8 Exposure controls/personal protection

Control parameters

Occupational exposure limit values: no information available

| Name of substance (component(s)): | CAS | Eight hours mg/m ³ | Short-term mg/m ³ | Note |
|--------------------------------------|-----|-------------------------------|------------------------------|------|
| - | - | - | - | - |

National Biological limit values: no information available

DNEL: no information available.


PNEC: no information available.

Engineering controls

Sufficient local ventilation of the workplace. Use of specified protective.

Personal protective equipment:

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| Respiratory protection: | Wear respirator. |
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|--|--|---|---------------------------------------|
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|--|--|---|---------------------------------------|

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| Eye protection: | Wear chemical safety goggles. |
| Hand protection: | Wear chemical-resistant gloves (leather, rubber or plastic). |
| Skin protection: | Suitable work clothes. |
| Environmental exposure control: | |
| Prevent the product from entering the environment, water bodies and sewer system. | |

| 9 Physical and chemical properties | |
|---|---|
| Appearance | yellow crystalline solid |
| Odour: | odourless |
| Odour threshold: | -not applicable |
| pH: | 7 (5 g/100 g H ₂ O) |
| Melting point/freezing point: | > 300°C |
| Initial boiling point and boiling range (°C): | no data available |
| Flash point (°C): | no data available |
| Evaporation rate: | no data available |
| Flammability (solid, gas): | no data available |
| Upper/lower flammability or explosive limits: | upper (% vol.): lower (% vol.): |
| | no data available no data available |
| Vapour pressure: | no data available |
| Vapour density: | no data available |
| Relative density: | no data available |
| Solubility: | 0.027 mg/l at 20°C in water, soluble in toluene, ethanol |
| Partition coefficient n-octanol/water: | no data available |
| Auto-ignition temperature: | no data available |
| Decomposition temperature: | no data available |
| Viscosity: | not applicable |
| Explosive properties: | no data available |
| Oxidising properties: | Not relevant, the substance contains oxygen and chlorine and these elements are chemically bonded only to carbon. |
| Other information: | no data available |

| 10 Stability and reactivity |
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| Chemical stability |
| Stable under normal temperature and pressure. |
| Possibility of hazardous reactions |
| No hazardous reactions have been reported. |
| Conditions to avoid |
| No data available. |
| Incompatible materials |
| No data available. |
| Hazardous decomposition products |
| Carbon and nitrogen oxides, hydrogen chloride. |

11 Toxicological information

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|--|--|---|--|

Information on toxicological effects:

There are not known any dangerous effects on human health sufficient for classification.

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| Acute toxicity | Based on available data not sufficient for classification. LD ₅₀ > 2000 mg/kg (rat, dermal) LD ₅₀ > 2000 mg/kg (rat, oral) |
| Skin corrosion/irritation | Based on available data not sufficient for classification. Skin irritation (EU B.4): negative |
| Serious eye damage/irritation | Based on available data not sufficient for classification. Skin irritation (EU B.5): negative |
| Respiratory or skin sensitisation | Based on available data not sufficient for classification. (LLNA test: negative) |
| Germ cell mutagenicity | Based on available data do not sufficient for classification. (bacterial reverse mutation test (Ames): negative) |
| Carcinogenicity | No data available. |
| Reproductive toxicity | No data available. |
| Specific target organ toxicity (STOT) - single exposure | Based on available data not sufficient for classification. |
| Specific target organ toxicity (STOT) - repeated exposure | No data available. |
| Aspiration hazard | No data available. |

12 Ecological information

Toxicity Vey toxic to aquatic life with long lasting effects.

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|-----------------------|---|
| Fish | No data available. |
| Algae | EC ₅₀ >0.145 mg/l (72 h) |
| Daphnia | No data available. NOEC<0.145 mg/l (72 h) |
| Bacteria | No data available. |
| Terrestrial organisms | No data available. |

Persistence and degradability

Not readily biodegradable (7.0% during 28 days)

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

No data available.

13 Disposal considerations

Waste treatment methods
Possible hazards in disposing of the substance and contaminated packaging:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Recommended disposal method of the preparation and contaminated packaging: dispose of the packaging in the same way as of the product, together with communal waste.

Physical/chemical properties that may affect waste treatment

No data available.

Avoiding waste disposal through sewerage


No data available.





Special precautions for any recommended waste treatment

No data available.

14 Transport information

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| UN No. | This product is not classified as dangerous goods for transport. 3077 |
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|--|--|---|---------------------------------------|

| | | | | |
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| UN proper shipping name | ADR, RID, IMDG, ICAO/IATA Environmentally hazardous substance, solid, N.O.S. | | | |
| | ADR | RID | IMDG | ICAO/IATA |
| Class: | 9 | 9 | 9 | 9 |
| Classification code: | M7 | M7 | - | - |
| Packing group: | III | III | III | III |
| Hazard Identification No. | 90 | - | - | - |
| Labels: |  |  |  |  |
| | ADR | RID | IMDG | ICAO/IATA |
| Note: | Limited Quantities: 5 Kg Excepted Quantities: E1 (30g/1000 g max) | | Marine pollutant: no EmS: F-A, S-F | PAO: 956 CAO: 956 |
| Environmental hazards: Yes | | | | |
| Special precautions for user: No | | | | |
| Transport in bulk according to Annex II of MARPOL and the IBC Code: No | | | | |
| 15 Regulatory information | | | | |
| Safety, health and environmental regulations/legislation specific for the substance or mixture Regulation EC 1907/2006 (REACH) as amended. Regulation EC 1272/2008 (CLP) as amended. | | | | |

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| 16 Other information | |
| The changes in case of a revised safety data sheet Change of classification in accordance with toxicity test results. | |
| A key or legend to abbreviations and acronyms Aquatic Acute 1 Intrinsic property of a substance to be injurious to an aquatic organism in a short-term aquatic exposure to that substance. Aquatic Chronic 1 Intrinsic property of a substance to cause adverse effects to aquatic organisms during aquatic exposures which are determined in relation to the life-cycle of the organism. DNEL Derived No Effect Level PNEC Predicted No Effect Concentration PEL Permissible Exposure Limit (8 h) NPK-P Maximum permissible limit (momentary concentration) CLP Regulation No. 1272/2008/EC REACH Regulation No. 1907/2006/EC PBT Persistent, bioaccumulative, toxic substances vPvB Very persistent and very bioaccumulative substances | |
| Key literature references and sources for data Scientific databases, regulations related to chemical legislation, free SDS of worldwide manufacturers. | |
| List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. P273 Avoid release to environment. | |
| Training appropriate for workers | Work safety training on handling chemical substance. |
| More information | Information given herein is based on our best knowledge and current legislation. TSCA: Listed |