



Health
Flammability
Reactivity
Protective equipment

According to COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
GENERIC EU MSDS – NO COUNTRY SPECIFIC DATA – NO OEL DATA

SMART 645 - Dye

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

1.1. Product identifier:

- **Product name:** SMART 645 - Dye
- **Product code:** F2H085N,DY
- **Brand:** Cyanagen Srl
- **CAS#:** None

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

- **Identified uses:** Laboratory chemicals, manufactures of substances.

1.3. Details of the supplier of the safety data sheet:

- **Company:** Cyanagen Srl
- **Telephone/fax:** +39 051-534063
- **E-mail address:** info@cyanagen.com

1.4. Emergency telephone number:

- **Emergency phone:** +39 051 534063

SECTION 2: Hazards identification

2.1. Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

- Acute Tox. 4 H302
- Acute Tox. 4 H312
- Acute Tox. 4 H332
- Resp. Sens. 1 H334
- Skin Sens. 1 H317
- Eye Dam 1 H318

2.2. Labeling according Regulation (EC) No 1272/2008 [CLP]



- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317
- H318 May cause an allergic skin reaction.
- Causes serious eye damage.
- P264 Wash . . . thoroughly after handling.

Model approved by: DP, RSQ and DS



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- P280 Wear protective gloves / protective clothing / eye protection / face protection.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell.
- P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

2.3. Other hazards:

- None.

SECTION 3: Composition/information on ingredients

3.1. Substances:

- **Synonyms:** Cyanine monoNHS
- **Formula:** C₃₈H₄₃K₂N₃O₁₃S₃
- **Molecular weight:** 924,15

3.2. Mixtures:

SECTION 4: First aid measures

4.1. Description of first aid measures:

- **Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
- **Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
- **Skin:** Wash with soap and water. Get medical attention if irritation develops.
- **Eyes:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

4.2. Most important symptoms and effects, both acute and delayed:

- No data available.

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

- No data available.

SECTION 5: Firefighting measures

5.1. Extinguishing media:

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

5.2. Special hazards arising from the substance or mixture:

- Produces toxic fumes in case of fire.

5.3. Advice for firefighters:

- Wear self contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures:

- Avoid dust formation. Avoid bathing vapors, mist or gas.

6.2. Environmental precautions:

- No special environmental precaution required.

6.3. Methods and material for containment and cleaning up:

- Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

6.4. Reference to other sections:

- For disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling:

- Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
- Provide appropriate exhaust ventilation at places where dust is formed.

7.2. Conditions for safe storage, including any incompatibilities:

- Protect material from long-term exposure to light.
- Keep refrigerated at -20°C.

7.3. Specific end use(s):

- Refer to the Instructions for proper and intended use. Otherwise, contact supplier for specific applications.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters:

- Components with workplace control parameters.

8.2. Exposure controls:

- **Engineering controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below exposure limits.
- **Personal protection:** Wear appropriate gloves, lab coat, dust respirator, safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
- **Personal protection in case of a large spill:** Splash goggles, full suit, dust respirator, glove, a self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient, consult a specialist BEFORE handling this product.
- **Exposure limit:** No data available.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties:

- **Physical state and appearance:** Solid.
- **Odor:** Odorless.
- **Color:** Blu
- **pH (1% soln/water):** No data available
- **Boiling point:** No data available.
- **Melting point:** No data available.
- **Volatility:** No data available.
- **Flammability:** No data available.
- **Explosive properties:** No data available.
- **Viscosity:** No data available.
- $\lambda_{\text{abs,max}}$: 645 nm
- $\lambda_{\text{em,max}}$: 665 nm
- ϵ : 250000
- **Solubility:** Water.

9.2. Other information:

- No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity:

- No data available.

10.2. Chemical stability:

- Stable under normal temperatures and pressures.

10.3. Possibility of hazardous reactions:

- No data available.

10.4. Conditions to avoid:

- Light.

10.5. Incompatible materials:

- Avoid strong oxidants.

10.6. Hazardous decomposition products:

- No dangerous decomposition products identified.

SECTION 11: Toxicological information

11.1. Information on toxicological effects:

- **Acute toxicity:** No data available.
- **Irritation and corrosion:** No data available.
- **Sensitisation:** No data available.
- **Chronic exposure:** IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **Potential Health Effects:**
 - **Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

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- **Skin:** May be harmful if absorbed through skin. May cause skin irritation.
- **Eyes:** May cause eye irritation.
- **Ingestion:** May be harmful if swallowed.

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:

- No data available.

12.6. Other adverse effects:

- No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods:

- **Product:** Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
- **Contaminated packaging:** Dispose of as unused product.

SECTION 14: Transport information

14.1. UN number:

ADR/RID:	IMDG:	IATA:
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14.2. UN proper shipping name:

ADR/RID: Not dangerous goods	IMDG: Not dangerous goods	IATA: Not dangerous goods
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14.3. Transport hazard class(es):

ADR/RID:	IMDG:	IATA:
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14.4. Packing group:

ADR/RID:	IMDG:	IATA:
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14.5. Environmental hazards:

ADR/RID: No	IMDG Marine pollutant: No	IATA:
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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 product is classified as non-hazardous according to EU Directive 67/548/CE.

15.2. Chemical safety assessment:

- No data available.

SECTION 16: Other information

- **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. Cyanagen Srl shall not be held liable for any damage resulting from handling or from contact with the above product. See invoice or packing slip for additional terms and conditions of sale.



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