

# Safety Data Sheet

## Nu-Gro Color Film CL

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### 1. Identification

#### Product identifier used on the label

#### Nu-Gro Color Film CL

#### Recommended use of the chemical and restriction on use

Recommended use\*: Seed coating  
Recommended use\*: colouring component

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

Company:  
BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

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### 2. Hazards Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

#### Classification of the product

|            |                         |  |
|------------|-------------------------|--|
| Acute Tox. | 3 (Inhalation - vapour) | Acute toxicity                                   |
| Acute Tox. | 3 (oral)                | Acute toxicity                                   |
| Acute Tox. | 3 (dermal)              | Acute toxicity                                   |
| STOT SE    | 1                       | Specific target organ toxicity — single exposure |

#### Label elements

Pictogram:

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Signal Word:  
Danger

Hazard Statement:

|      |  |
|------|--|
| H311 | Toxic in contact with skin.                                    |
| H331 | Toxic if inhaled.  |
| H301 | Toxic if swallowed.  |
| H370 | Causes damage to organs (Central nervous system, Optic nerve). |

Precautionary Statements (Prevention):

|      |   |
|------|---|
| P271 | Use only outdoors or in a well-ventilated area.               |
| P280 | Wear protective gloves/clothing.                              |
| P260 | Do not breathe dust/gas/mist/vapours.                         |
| P270 | Do not eat, drink or smoke when using this product.           |
| P264 | Wash with plenty of water and soap thoroughly after handling. |

Precautionary Statements (Response):

|             |  |
|-------------|--|
| P311        | Call a POISON CENTER or doctor/physician.                                  |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.        |
| P303 + P352 | IF ON SKIN (or hair): Wash with plenty of soap and water.                  |
| P361 + P364 | Take off immediately all contaminated clothing and wash it before reuse.   |
| P330        | Rinse mouth.   |

Precautionary Statements (Storage):

|             |  |
|-------------|--|
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405        | Store locked up.   |

Precautionary Statements (Disposal):

|      |   |
|------|---|
| P501 | Dispose of contents/container to hazardous or special waste collection point. |
|------|---|

### 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

| <u>CAS Number</u> | <u>Weight %</u> | <u>Chemical name</u> |
|-------------------|-----------------|----------------------|
| 67-56-1           | 1.0 - 5.0%      | Methanol             |

### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

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**If inhaled:**

Keep patient calm, remove to fresh air, seek medical attention.

**If on skin:**

Immediately wash thoroughly with soap and water, seek medical attention.

**If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

**If swallowed:**

Rinse mouth immediately and then drink plenty of water, induce vomiting, seek medical attention.

**Most important symptoms and effects, both acute and delayed**

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., (Further) symptoms and / or effects are not known so far

**Indication of any immediate medical attention and special treatment needed**Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

**Extinguishing media**

Suitable extinguishing media:  
water spray, dry powder, foam, carbon dioxide

**Special hazards arising from the substance or mixture**

Hazards during fire-fighting:  
carbon monoxide, carbon dioxide, nitrogen oxides  
The substances/groups of substances mentioned can be released in case of fire.

**Advice for fire-fighters**

Protective equipment for fire-fighting:  
Wear self-contained breathing apparatus and chemical-protective clothing.

**Further information:**

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

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### Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Cleaning operations should be carried out only while wearing breathing apparatus.

## 7. Handling and Storage

### Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

### Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Protect from temperatures below: 0 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

## 8. Exposure Controls/Personal Protection

### Components with occupational exposure limits

|          |           |   |
|----------|-----------|---|
| Methanol | OSHA PEL  | PEL 200 ppm 260 mg/m <sup>3</sup> ; TWA value 200 ppm 260 mg/m <sup>3</sup> ; SKIN_FINAL ;<br>The substance can be absorbed through the skin.                   |
|          | ACGIH TLV | STEL value 250 ppm 325 mg/m <sup>3</sup> ;<br>TWA value 200 ppm ; STEL value 250 ppm ;<br>Skin Designation ;<br>The substance can be absorbed through the skin. |

### Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

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### **Personal protective equipment**

#### **Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

#### **Hand protection:**

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

#### **Eye protection:**

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

#### **Body protection:**

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

#### **General safety and hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

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## 9. Physical and Chemical Properties

|                        |  |
|------------------------|--|
| Form:                  | liquid   |
| Odour:                 | slight odour   |
| Odour threshold:       | Not determined due to potential health hazard by inhalation.   |
| Colour:                | opaque   |
| pH value:              | approx. 2 - 4<br>( 20 °C)  |
| Melting temperature:   | approx. 0 °C<br>Information applies to the solvent.  |
| boiling temperature:   | approx. 100 °C<br>Information applies to the solvent.  |
| Flash point:           | > 93 °C  |
| Flammability:          | not applicable   |
| Lower explosion limit: | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |
| Upper explosion limit: | As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use. |
| Autoignition:          | Based on the water content the product does not ignite.  |

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|   |   |
|---|---|
| Vapour pressure:                                    | approx. 23.4 hPa<br>( 20 °C)  |
| Density:  | Information applies to the solvent.<br>approx. 1.0 g/cm3<br>( 20 °C)                              |
| Vapour density:                                     | not applicable  |
| Partitioning coefficient n-octanol/water (log Pow): | not applicable  |
| Thermal decomposition:                              | No decomposition if stored and handled as prescribed/indicated.                                   |
| Viscosity, kinematic:                               | Forms a viscous solution.   |
| Solubility in water:                                | dispersible   |
| Evaporation rate:                                   | not applicable  |
| Other Information:                                  | If necessary, information on other physical and chemical parameters is indicated in this section. |

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

### Conditions to avoid

See MSDS section 7 - Handling and storage.

### Incompatible materials

strong acids, strong bases, strong oxidizing agents

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

Acute toxicity

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Assessment of acute toxicity: Of low toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. The product has not been tested. The statement has been derived from the properties of the individual components.

### Oral

Type of value: ATE  
Value: 257.000000 mg/kg

### Inhalation

Type of value: ATE  
Value: 7.700000 mg/l  
Determined for vapor

Type of value: ATE  
Value: > 5.0000 mg/l  
Determined for mist

### Dermal

Type of value: ATE  
Value: 770.000000 mg/kg

### Assessment other acute effects

Assessment of STOT single:  
A single exposure may have relevant toxic effects on organs named in section 2 of this safety data sheet.

The product has not been tested. The statement has been derived from the properties of the individual components.

### Irritation / corrosion

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes. The product has not been tested. The statement has been derived from the properties of the individual components.

### Skin

*Information on: Methanol*  
*Species: rabbit*  
*Result: non-irritant*  
*Method: BASF-Test*  
-----

### Eye

*Information on: Methanol*  
*Species: rabbit*  
*Result: non-irritant*  
*Method: BASF-Test*  
-----

### Sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential. The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Methanol*  
*Guinea pig maximization test*  
*Species: guinea pig*  
*Result: Non-sensitizing.*  
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### Chronic Toxicity/Effects

#### Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

#### *Information on: Methanol*

*Assessment of repeated dose toxicity: The substance may cause blindness after repeated ingestion. The substance may cause blindness after repeated inhalation.*

-----

#### Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

#### Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

#### *Information on: Methanol*

*Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by inhalation, a carcinogenic effect was not observed. In long-term animal studies in which the substance was given in the drinking water in high concentrations, a carcinogenic effect was observed. These effects are not relevant to humans at occupational levels of exposure.*

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#### Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

#### Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

#### *Information on: Methanol*

*Assessment of teratogenicity: Indications of possible developmental toxicity/teratogenicity were seen in animal studies.*

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#### Other Information

Misuse can be harmful to health.

### Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., (Further) symptoms and / or effects are not known so far

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## 12. Ecological Information

### Toxicity

Aquatic toxicity



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Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

### Toxicity to fish

*Information on: Methanol*

*LC50 (96 h) 15,400 mg/l, Lepomis macrochirus (other, Flow through.)*  
-----

### Aquatic invertebrates

*Information on: Methanol*

*EC50 (48 h) 18,260 mg/l, Daphnia magna (OECD Guideline 202, part 1, semistatic)*  
-----

### Aquatic plants

*Information on: Methanol*

*EC50 (96 h) approx. 22,000 mg/l (growth rate), Selenastrum capricornutum (OECD Guideline 201, static)*  
-----

### Chronic toxicity to fish

*Information on: Methanol*

*(28 d) 446.7 mg/l, Pimephales promelas (other, other)*

*The product has not been tested. The statement has been derived from the structure of the product.*  
-----

### Chronic toxicity to aquatic invertebrates

*Information on: Methanol*

*No observed effect concentration (21 d) 208 mg/l, Daphnia magna (other)*

*The product has not been tested. The statement has been derived from the structure of the product.*  
-----

## **Microorganisms/Effect on activated sludge**

### Toxicity to microorganisms

*Information on: Methanol*

*Inhibition of nitrification aquatic*

*Bacteria/EC50 (24 h): 880 mg/l*  
-----

## **Persistence and degradability**

### Assessment biodegradation and elimination (H2O)

The product has not been tested. The statement has been derived from the properties of the individual components. Colourants are by their nature very stable and are therefore not readily biodegradable under conditions prevailing in surface water or in effluent treatment plants.

## **Bioaccumulative potential**

### Assessment bioaccumulation potential

The product has not been tested. The statement has been derived from the properties of the individual components.

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### Assessment bioaccumulation potential

*Information on: Methanol*

*Significant accumulation in organisms is not to be expected.*  
-----

### **Mobility in soil**

Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Methanol*

*The substance will not evaporate into the atmosphere from the water surface.*  
*Adsorption to solid soil phase is not expected.*  
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### **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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## **13. Disposal considerations**

### **Waste disposal of substance:**

Must be disposed of or incinerated in accordance with local regulations.

### **Container disposal:**

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## **14. Transport Information**

### **Land transport**

USDOT

Not classified as a dangerous good under transport regulations

### **Sea transport**

IMDG

Not classified as a dangerous good under transport regulations

### **Air transport**

IATA/ICAO

Not classified as a dangerous good under transport regulations

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## **15. Regulatory Information**

### **Federal Regulations**

**Registration status:**

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Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

### EPCRA 313:

#### CAS Number

67-56-1

#### Chemical name

Methanol

#### CERCLA RQ

5000 LBS

#### CAS Number

67-56-1

#### Chemical name

Methanol

### State regulations

#### State RTK

PA

#### CAS Number

50-00-0

#### Chemical name

Formaldehyde

67-56-1

Methanol

MA

50-00-0

Formaldehyde

67-56-1

Methanol

NJ

50-00-0

Formaldehyde

67-56-1

Methanol

### **Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:**

**WARNING:** This product can expose you to chemicals including FORMALDEHYDE (GAS), which is known to the State of California to cause cancer, and METHANOL, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## 16. Other Information

### **SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2019/01/08

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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