

Material nr.: Novocolor  
Material name: Liquid color

Version: 2.0 / REG\_EU  
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## 1. Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier:  
**Novocolor® -Liquid Colors**
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:  
Industrial liquid color for coloring of plastics.
- 1.3. Details of the supplier of the safety data sheet:  
Company: Novosystems Farben und Additive GmbH  
Winsener Landstraße 124  
21217 Seevetal, Germany  
  
Telephone: +49 (0)4105 1458 0  
Telefax: +49 (0)4105 1458 22  
Email address: info@novosystems.de
- 1.3.1. Name of responsible persons: Rainer Hoop  
Email: hoop@novosystems.de
- 1.4. Emergency telephone number: +49 (0)4105 1458 0

## 2. HAZARDS IDENTIFICATION

- 2.1. Classification of the substance or mixture  
Classified under the CLP Regulation (Regulation (EC) no. 1272/2008, as amended).  
**Not a hazardous substance or mixture.**
- 2.2. Label elements  
Labelling according to Regulation (EC) No 1272/2008 [CLP]: **Labeling is not required.**  
Components of danger: **none.**  
Hazard (H) statements: **none.**  
Precautionary statements (Safety P-phrases): **none.**
- 2.3. Other hazards  
The product shows no other known specific threat to humans or the environment.

## 3. Composition/information on ingredients

- 3.1. Substances  
Not applicable.
- 3.2. mixtures:  
Dispersion (Liquid Colour) based upon a fatty acid ester, aliphatic carbon-di-ester and/ or vegetable oil carrier system, indexed color pigments, amorphous silica.  
The product does not contain dangerous substances or the concentration of hazardous substances do not reach the limits specified in the relevant regulations, so this need not be indicated on the safety data sheet.

## 4. First aid measures

- 4.1. Description of first aid measures  
- general notes General advice:  
When symptoms persist or in all cases of doubt seek medical advice.  
  
- following inhalation  
Provide fresh air, seek medical advice if necessary.  
  
- following skin contact  
Wash off with soap and water.  
  
- following eye contact  
Rinse with plenty of water immediately, seek medical advice if necessary.  
  
- following ingestion  
Do not induce vomiting. Drink plenty of water.  
  
- self-protection of the first aider  
No personal respiratory protective equipment normally required.

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- 4.3. Indication of any immediate medical attention and special treatment needed  
No data available.

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## 5. Firefighting measures

- 5.1. Extinguishing media
- 5.1.1. Suitable extinguishing media:  
foam, carbon dioxide (CO<sub>2</sub>), dry powder, water spray
- 5.1.2. Unsuitable extinguishing media:  
It is not known.
- 5.2. Special hazards arising from the substance or mixture  
Burning will produce toxic fumes.
- 5.3. Advice for firefighters  
Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.

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## 6. Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
- 6.1.1. For non-emergency personnel:  
Do not allow unprotected personnel access to the accident site. Allow only trained professionals who wear suitable protective clothing that is present in the disaster area.
- 6.1.2. For emergency responders:  
Use appropriate personal protective equipment. See the section 8th.
- 6.2. Environmental precautions  
Should not be released into the environment. Do not contaminate water.
- Although the carrier of the liquids is biologically degradable, the liquid which includes carrier and pigments should not washed into the environment even there will be no danger for the environment.
- 6.3. Methods and material for containment and cleaning up  
Wash with warm water and mild cleaning agent.  
The liquids should be wiped up and disposed instead of washing them into the sewerage system. But if this happens the carrier is not dangerous and will be degraded after a while.
- 6.4. Reference to other sections:  
If you want more, or more detailed information, see chapter 8 and 13.

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## 7. Handling and storage

- 7.1. Precautions for safe handling  
Observe normal hygiene precautions.  
Observe the rules usually refer to the use of chemicals.  
Precautions against fire and explosion:  
General measures for preventive fire protection.  
Special measures are not necessary.
- 7.2. Conditions for safe storage, including any incompatibilities  
Keep away from direct sunlight and keep dry. Storage temperature: > 10 °C (recommended)  
If the product is stored at temperatures lower than 10°C, before use it is recommended to  
- warm up the product for 24 hours at room temperature and  
- homogenize by using a rotational mixer  
The product is stable for 1 year minimum.  
Incompatible materials: None known.  
Packaging: There is no specific requirement.
- 7.3. Specific end uses:  
Specific instructions not available.

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## 8. Exposure controls/personal protection

- 8.1. Control parameters  
Occupational exposure limit values:  
Components of the mixture are not regulated by limiting an exposure value.

**SAFETY DATA SHEET according to Regulation (EG) Nr. 1907/2006 (REACH)****NOVOCOLOR® -Liquid Colors**

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**DNELs**

	<b>Workers</b>				<b>Consumers</b>			
<b>Route of exposure</b>	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effects local	Acute effects systemic	Chronic effects local	Chronic effects systemic
<b>Oral</b>	Not required				no exposure expected	no exposure expected	no exposure expected	no exposure expected
<b>Inhalation</b>	no exposure expected	no exposure expected	no exposure expected	no exposure expected	no exposure expected	no exposure expected	no exposure expected	no exposure expected
<b>Dermal</b>	no data available	no data available	no data available	no data available	no data available	no data available	no data available	no data available

**PNECs**

	<b>PNEC</b>
<b>Soil</b>	no data available
<b>Water</b>	no data available
<b>Air</b>	no data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls  
 When using take precautions avoiding spills on clothes and floors, avoid contact with eyes and skin.

8.2.2. Individual protection measures, such as personal protective equipment  
 Hygiene measures:  
 Handle in accordance with good industrial hygiene and safety practice.  
 Keep away from food, drink and feed.

1. Eye / face protection: Use suitable protective goggles (EN 166).

2. Skin protection:

a. Hand protection: Wear suitable protective gloves (EN 374).

b. Other: No special protective equipment.

3. Respiratory protection: No personal respiratory protective equipment normally required.

4. Thermal hazard: None known.

8.2.3. Environmental exposure controls  
 There is no specific answer.  
 The requirements listed under point 8 assume skilled work under normal conditions and use of the product for the intended purpose. See the section 6th

**9. Physical and chemical properties**9.1. Information on basic physical and chemical properties

(a) Appearance	viscous liquid
(b) Odour	mild fatty
(c) Odour threshold	no data available
(d) pH	6-8
(e) Melting point/freezing point	about 2-5°C
(f) Initial boiling point and boiling range	> 350°C
(g) Flash point	> 200 °C
(h) Evaporation rate	no data available
(i) Flammability (solid, gas)	no data available

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(k) Vapour pressure	< 0,01 Pa at 20°C
(l) Vapour density	no data available
(m) Density	1,5 g/mL
(n) Solubility(ies)	dispersable in water
(o) Partition coefficient: n-octanol/water	no data available
(p) Auto-ignition temperature	no data available
(q) Decomposition temperature	no data available
(r) Viscosity	1 - 6 Pas
(s) Explosive properties	no data available
(t) Oxidising properties	no data available

9.2. Other information  
No data available

## 10. Stability and Reactivity

- 10.1. Reactivity  
May react with oxidizing agents and reducing agents.
- 10.2. Chemical stability  
The substance is stable at ambient temperature and general working conditions.
- 10.3. Possibility of hazardous reactions  
Thermal decomposition > 350 °C
- 10.4. Conditions to avoid  
Avoid open fire.
- 10.5. Incompatible materials  
It is not known.
- 10.6. Hazardous decomposition products  
No known hazardous decomposition products. In case of burning:  
carbon monoxide, carbon dioxide, toxic fumes

## 11. Toxicological information

- 11.1. Information on toxicological effects  
There are no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparation Directive 1999/45/ EC and not classified.

Acute toxicity	not classified, LD50 oral rat >2000
Skin corrosion/irritation	not classified, no data available
Serious eye damage/irritation	not classified, no data available
Respiratory or skin sensitization	not classified, no data available
germ cell mutagenicity	not classified, no data available
carcinogenicity	not classified, no data available
reproductive toxicity; not classified	no data available
Summary of evaluation of the CMR properties	not classified, no data available
STOT-single exposure	not classified, no data available
STOT-repeated exposure	not classified, no data available
aspiration hazard	not classified, no data available

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**12. Ecological information**

- 12.1. Toxicity  
Data are not available.
- 12.2. Persistence and degradability  
Carrier system is biodegradable.
- 12.3. Bio accumulative potential  
Data are not available.
- 12.4. Mobility in soil:  
Data are not available.
- 12.5. Results of PBT and vPvB  
Data are not available.
- 12.6. Other adverse effects  
Data are not available.
- 12.7. Additional information  
The hazards of the product to the environment have been assessed according to the conventional method of the EU Dangerous Preparations Directive 1999/45/ EC giving no indication for a harmful for the environment classification.

**13. Disposal considerations**

- 13.1. Waste treatment methods:  
Disposal in accordance with local regulations.
- 13.1.1. Information regarding disposal of the product:  
There is no specific recommendation from the manufacturer.  
European waste code:  
liquid color: 080112
- 13.1.2. Information regarding the disposal of packaging:  
Empty containers need to take it to a local recycling center to be disposed of there.  
European waste code:  
- The cardboard box: 150101  
- For PE-Bag: 150110

**14. Transport Information**

- Not classified as dangerous in the meaning of transport regulations!
- 14.1. UN number:  
None.
- 14.2. UN proper shipping name:  
None.
- 14.3. Transport hazard class  
None.
- 14.4. packing group  
None.
- 14.5. Environmental hazards  
Relevant information is not available.
- 14.6. Special precautions for user  
Relevant information is not available.
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not applicable.

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## 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency and amending Directive 1999/45 / EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 and Council Directive 76/769 / EEC and Commission Directives 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC, and amending Regulation (EC) No. 1907/2006 COMMISSION REGULATION (EU) No. 2015/830 of 28 May 2015 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC. EINECS Status European Inventory of Existing Commercial Chemical Substances (EINECS). This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS) or complies with the European Union chemical inventory requirements.

TSCA (Toxic Substance Control Act), EPA TSCA INVENTORY: All of the components are listed on the TSCA inventory.

### 15.2. Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## 16. Other information

Details of the supplier of the safety data sheet: none.

The terms of all abbreviations in the safety data sheet:

DNEL: Derived no effect level. PNEC: Predicted no effect concentration. CMR effects: carcinogenic, mutagenic and reproductive toxicity: PBT: Persistent, toxic, which may be biologically accumulate.  
vPvB: very persistent and very bioaccumulative. n. d. : not defined. n.r. : Not applicable.

Data Sources: safety sheet (from the day 20. 05. 2015 ; Version: 2.0 / EN), issued by the manufacturer. A full list of H-phrases for the ingredients referred to in point 2 and 3: none.

Instructions for training: Information not available.

This safety data sheet was prepared on the basis of data obtained from the manufacturer / supplier, and in accordance with the relevant regulations.

Information, data and recommendations in this document are given in good faith from reliable sources and are believed to be true and accurate on the date of issue. However, no further presentation to facilitate the comprehensibility of the information. VL is used only as a guide for handling the product; during handling and use of the product may affect other obligations.

Users are reminded that it is necessary to determine the relevance and validity of the above information with respect to their particular circumstances and assume all risks associated with the use of this product. When using this product borne by the user with regard to full compliance with local, national and international regulations your own risk.



## Certificate of Analysis according to DIN EN 10204 - 3.1.

Material Number BC31002  
Material Name P22004

Batch Number 18-05-0069  
Color values measured against standard 11-04-0068

Parameters	Methods	Spec Limits		Values	Unit
		Min	Max		
Color strength	DIN EN ISO 787-26	97	103	100,64	%
dE	CIELAB; EN ISO 11664-4	-	0,5	0,34	-
dL	CIELAB; EN ISO 11664-4			-0,15	-
da	CIELAB; EN ISO 11664-4			-0,04	-
db	CIELAB; EN ISO 11664-4			-0,3	-
Density	ISO 2811	0,9	1,1	1,02	g/cm <sup>3</sup>
Grind	DIN/ISO 1524	-	100	5	µm
Viscosity (270s-1)	ISO 3219	600	1.200	1.140	mPa*s
Relative Yield	ISO 3219	150	350	310	Pa

Standard Analytical Procedure Novosystems methods as indicated. With these results of our continuous inspections, we certify that the material described above complies with the terms of the order contract. This certificate has been prepared with care and the best of our knowledge as part of the quality assurance system from Novosystems GmbH. It is provided for informational purposes only and does not relieve our customers of their obligation to perform proper incoming inspections upon receipt or establish any warranty to third parties to whom it might be passed on. Furthermore, it is solely the customer's responsibility to determine the suitability of the product for its intended use. Novosystems warrants that the product described herein fully meets its sales specification. Before using the product, read its label and the material safety data sheet.

