# Safety data sheet
## according to 1907/2006/EC, Article 31

Printing date 28.06.2023 Version number 2 (replaces version 1) Revision: 28.06.2023

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

· **1.1 Product identifier**
· Trade name: **Color Intensifier**

· Article number: 10884, 10885, 10886, 10887, 10888, 10900, 11855
· UFI: SQD3-E5KM-Q31T-WCNW
· **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
· Application of the substance / the mixture Protective impregnation

· **1.3 Details of the supplier of the safety data sheet**
· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg
Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

· Further information obtainable from: Laboratory
· **1.4 Emergency telephone number:** Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.

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## SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· Classification according to Regulation (EC) No 1272/2008

| | |
|---|---|
| Flam. Liq. 3 | H226 Flammable liquid and vapour. |
| Skin Irrit. 2 | H315 Causes skin irritation. |
| Eye Dam. 1 | H318 Causes serious eye damage. |
| Asp. Tox. 1 | H304 May be fatal if swallowed and enters airways. |
| Aquatic Chronic 2 | H411 Toxic to aquatic life with long lasting effects. |

· **2.2 Label elements**
· Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.
· Hazard pictograms

GHS02 GHS05 GHS08 GHS09

· Signal word Danger

· Hazard-determining components of labelling: Polydimethylsiloxane, hydroxy-terminated reaction product of trimethoxy methyl silane, and N-[3 - (trimethoxysilyl) propyl] -1,2-ethanediamine
2,2,4,6,6-pentamethylheptan
Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics
· Hazard statements H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.
· Precautionary statements P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

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| | |
|---|---|
| P103 | Read carefully and follow all instructions. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P261 | Avoid breathing mist/vapours/spray. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/ doctor. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/ regional/national/international regulations. |

· **2.3 Other hazards**
· Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.
· Determination of endocrine-disrupting properties: For information on endocrine disrupting properties see section 11.

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## SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**
· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

| | | |
|---|---|---|
| CAS: 13475-82-6<br>EINECS: 236-757-0<br>Reg.nr.: 01-2119490725-29 | 2,2,4,6,6-pentamethylheptan<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Aquatic Chronic 4, H413<br>EUH066 | 25-50% |
| EC number: 923-037-2<br>Reg.nr.: 01-2119471991-29-xxxx | Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics<br>Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 | 25-50% |
| CAS: 69430-37-1 | Polydimethylsiloxane, hydroxy-terminated reaction product of trimethoxy methyl silane, and N-[3 - (trimethoxysilyl) propyl] -1,2-ethanediamine<br>Eye Dam. 1, H318<br>Skin Irrit. 2, H315 | 12.5-25% |
| CAS: 123-86-4<br>EINECS: 204-658-1<br>Index number: 607-025-00-1<br>Reg.nr.: 01-2119485493-29 | n-butyl acetate<br>Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066 | <1% |

· Additional information: For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· General information: Take affected persons out into the fresh air.
Position and transport stably in side position.
Immediately remove any clothing soiled by the product.
· After inhalation: Supply fresh air; consult doctor in case of complaints.

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· After skin contact: If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing: If symptoms persist consult doctor.

· **4.2 Most important symptoms and effects, both acute and delayed**
Breathing difficulty
Headache
Dizziness
Dizziness
Nausea
Profuse sweating

· Hazards Danger of impaired breathing.

· **4.3 Indication of any immediate medical attention and special treatment needed** If swallowed, gastric irrigation with added, activated carbon.

## SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· Suitable extinguishing agents: $CO_2$, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: Water with full jet

· **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded.

· **5.3 Advice for firefighters**

· Protective equipment:
Do not inhale explosion gases or combustion gases.
Wear fully protective suit.
Wear self-contained respiratory protective device.

· Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

## SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Keep away from ignition sources.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.

· **6.2 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 to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.

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· **6.4 Reference to other sections** See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

## SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** Keep receptacles tightly sealed.
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**

· Storage:

· Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
Prevent any seepage into the ground.

· Information about storage in one common storage facility: Store away from oxidising agents.
Store away from foodstuffs.

· Further information about storage conditions: Store receptacle in a well ventilated area.
Keep container tightly sealed.

· Storage class: 3

· **7.3 Specific end use(s)** No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

| · Ingredients with limit values that require monitoring at the workplace: | |
|---|---|
| **123-86-4 n-butyl acetate** | |
| IOELV | Short-term value: 723 mg/m³, 150 ppm<br>Long-term value: 241 mg/m³, 50 ppm |

| · DNELs | | |
|---|---|---|
| **123-86-4 n-butyl acetate** | | |
| Oral | DNEL (Kurzzeit-akut) | 2 mg/kg bw/day (BEV) |
| | DNEL (Langzeit-wiederholt) | 2 mg/kg bw/day (BEV) |
| Dermal | DNEL (Kurzzeit-akut) | 11 mg/kg bw/day (ARB) |
| | | 6 mg/kg bw/day (BEV) |
| | DNEL ( Langzeit-wiederholt) | 7 mg/kg bw/day (ARB) |
| | | 3.4 mg/kg bw/day (BEV) |
| Inhalative | DNEL (Kurzzeit-akut) | 960 mg/m³ Air (ARB) |
| | | 859.7 mg/m³ Air (BEV) |
| | DNEL (Langzeit-wiederholt) | 480 mg/m³ Air (ARB) |
| | | 102.34 mg/m³ Air (BEV) |

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· PNECs

| **123-86-4 n-butyl acetate** | |
|---|---|
| PNEC (wässrig) | 35.6 mg/l (KA) |
| | 0.018 mg/l (MW) |
| | 0.18 mg/l (SW) |
| | 0.36 mg/l (WAS) |
| PNEC (fest) | 0.0903 mg/kg Trockengew (BO) |
| | 0.0981 mg/kg Trockengew (MWS) |
| | 0.981 mg/kg Trockengew (SWS) |

· Additional information: The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· Appropriate engineering controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

· General protective and hygienic measures:
Do not eat, drink, smoke or sniff while working.
Apply solvent resistant skin cream before starting work.
Use skin protection cream for skin protection.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes.

· Respiratory protection:
Filter AX
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection
Preventive skin protection by use of skin-protecting agents is recommended.
After use of gloves apply skin-cleaning agents and skin cosmetics.
Skin protection agent recommendation for preventive skin shelter without use of protective gloves:
STOKODERM (http://www.stoko.com)
Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:
STOKO EMULSION (http://www.stoko.com)
Skin protection recommendation for skin cleaning after product handling:
FRAPANTOL (http://www.stoko.com)
Skin protection agent recommendation for skin aftercare:
STOKO VITAN (http://www.stoko.com)
The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times´ data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory anylyses of the company KCL GmbH in compliance with EN374.
This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: http://www.kcl.de).


Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material
Value for the permeation: Level ≤ 6, 480 min
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable:
Fluorocarbon rubber (Viton)
Vitoject (KCL, Art_No. 890)
Nitrile rubber, NBR
Camatril (KCL, Art_No. 730, 731, 732, 733)

· As protection from splashes gloves made of the following materials are suitable:
Nitrile rubber, NBR
Camatril (KCL, 730, 731, 732, 733)

· Not suitable are gloves made of the following materials:
Natural rubber, NR
Leather gloves
Strong material gloves

· Eye/face protection

Tightly sealed goggles

· Body protection:
Protective work clothing

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

| | |
|---|---|
| · General Information | |
| · Colour: | Colourless |
| · Odour: | Characteristic |
| · Melting point/freezing point: | Undetermined. |
| · Boiling point or initial boiling point and boiling range | 180 °C |
| · Lower and upper explosion limit | |
| · Lower: | 0.6 Vol % |
| · Upper: | 7 Vol % |
| · Flash point: | 44 °C |
| · Auto-ignition temperature: | 240 °C |
| · pH | Not determined.<br>Not applicable |
| · Viscosity: | |
| · Kinematic viscosity at 20 °C | 11 s (DIN 53211/4) |
| · Dynamic: | Not determined. |
| · Solubility | |
| · water: | Not miscible or difficult to mix. |

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| | |
|---|---|
| · Vapour pressure at 20 °C: | 1 hPa |
| · Density and/or relative density | |
| · Density at 20 °C: | 0.78 g/cm³ |

| | |
|---|---|
| · **9.2 Other information** | |
| · Appearance: | |
| · Form: | Fluid |
| · Important information on protection of health and environment, and on safety. | |
| · Ignition temperature: | Product is not selfigniting. |
| · Explosive properties: | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · Solvent content: | |
| · Organic solvents: | 80.4 % |
| · Solids content: | 4.8 % |

| | |
|---|---|
| · Information with regard to physical hazard classes | |
| · Explosives | Void |
| · Flammable gases | Void |
| · Aerosols | Void |
| · Oxidising gases | Void |
| · Gases under pressure | Void |
| · Flammable liquids | Flammable liquid and vapour. |
| · Flammable solids | Void |
| · Self-reactive substances and mixtures | Void |
| · Pyrophoric liquids | Void |
| · Pyrophoric solids | Void |
| · Self-heating substances and mixtures | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids | Void |
| · Oxidising solids | Void |
| · Organic peroxides | Void |
| · Corrosive to metals | Void |
| · Desensitised explosives | Void |

## SECTION 10: Stability and reactivity

| | |
|---|---|
| · **10.1 Reactivity** | No further relevant information available. |
| · **10.2 Chemical stability** | |
| · Thermal decomposition / conditions to be avoided: | No decomposition if used and stored according to specifications. |
| · **10.3 Possibility of hazardous reactions** | Reacts with strong oxidising agents.<br>Forms flammable gases/fumes. |
| · **10.4 Conditions to avoid** | No further relevant information available. |
| · **10.5 Incompatible materials:** | No further relevant information available. |
| · **10.6 Hazardous decomposition products:** | Carbon monoxide and carbon dioxide |

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## SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

| | |
|---|---|
| · Acute toxicity | Based on available data, the classification criteria are not met. |

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· LD/LC50 values relevant for classification:

| | | |
|---|---|---|
| **13475-82-6 2,2,4,6,6-pentamethylheptan** | | |
| Oral | LD50 | >5,000 mg/kg (rat) (OECD 401) |
| Dermal | LD50 | 2,200-2,500 mg/kg (rabbit) (OECD 402) |
| Inhalative | LC50/8h | >5 ppm (rat) |
| | LC50/48h | >3,193 mg/l (daphnia magna) (ISO 14559) |
| **Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics** | | |
| Oral | LD50 | >5,000 mg/kg (rat) (OECD 401) |
| Dermal | LD50 | >5,000 mg/kg (rabbit) (OECD 402) |
| Inhalative | LC50/8h | >5 mg/l (rat) |
| | LC50/48h | >1,000 mg/l (daphnia magna) (OECD 202) |
| **69430-37-1 Polydimethylsiloxane, hydroxy-terminated reaction product of trimethoxy methyl silane, and N-[3 - (trimethoxysilyl) propyl] -1,2-ethanediamine** | | |
| Oral | LD50 | >2,000 mg/kg (rat) |
| **123-86-4 n-butyl acetate** | | |
| Oral | LD50 | 10,760 mg/kg (rat) (OECD 423) |
| Dermal | LD50 | >14,112 mg/kg (rabbit) (OECD 402) |
| Inhalative | LC50/4 h | 23.4 mg/l (rat) (OECD 403) |
| | LC50 | 390 mg/m3 (rat) |
| | LC50/48h | 64 mg/l (Brachydanio rerio) |

· Skin corrosion/irritation Causes skin irritation.
· Serious eye damage/irritation Causes serious eye damage.
· Respiratory or skin sensitisation 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.
· Aspiration hazard May be fatal if swallowed and enters airways.
· **11.2 Information on other hazards**

| · Endocrine disrupting properties | | |
|---|---|---|
| 540-97-6 | Dodecamethylcyclohexasiloxan | List II |
| 541-02-6 | 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane | List II |

* 
## SECTION 12: Ecological information

· **12.1 Toxicity**

| · Aquatic toxicity: | |
|---|---|
| **13475-82-6 2,2,4,6,6-pentamethylheptan** | |
| IC50/72h | >1,000 mg/l (Pseudokirchneriella subcapitata) |
| EC50/48h | >1,000 mg/l (daphnia magna) |
| NOELR/72h | 1,000 mg/l (Pseudokirchneriella subcapitata) (OECD201) |
| NOELR/21d | 0.02 mg/l (daphnia magna) (OECD 211) |
| NOELR/28d | 0.267 mg/l (Oncorhynchus mykiss) ((Q)SAR) |
| EC50/72h | >1,000 mg/l (Pseudokirchneriella subcapitata) (OECD 201) |
| LC50/96h | >1,000 mg/l (Oncorhynchus mykiss) (OECD 203) |

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| **Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics** | |
|---|---|
| EL0/48h | 1,000 mg/l (daphnia magna) |
| EL0/72h | 1,000 mg/l (Pseudokirchneriella subcapitata) |
| LL0/96h | 1,000 mg/l (Oncorhynchus mykiss) |
| NOELR/72h | 1,000 mg/l (Pseudokirchneriella subcapitata) (OECD 201) |
| NOELR/21d | <1 mg/l (daphnia magna) (OECD 211) |
| NOELR/28d | 0.192 mg/l (Oncorhynchus mykiss) ((Q)SAR) |
| EC50/72h | >1,000 mg/l (Pseudokirchneriella subcapitata) (OECD 201) |
| LC50/96h | >1,000 mg/l (Oncorhynchus mykiss) (OECD 203) |
| **123-86-4 n-butyl acetate** | |
| EC50/24h | 72.8 mg/l (daphnia magna) (DIN 38412) |
| EC50/96h | 320 mg/l (algae) |
| LC50/24h | 205 mg/l (daphnia magna) |
| IC50/72h | 648 mg/l (Desmodesmus subspicatus) |
| EC10/18h | 959 mg/l (pseudomonas putida) |
| EC50/48h | 44 mg/l (daphnia magna) |
| EC50/16h | 959 mg/l (pseudomonas putida) |
| NOEC | 200 mg/kg (Desmodesmus subspicatus) |
| NOEC/21d | 23 mg/l (daphnia magna) (OECD 211) |
| EC50/72h | 647.7 mg/l (Desmodesmus subspicatus) (Zellvermehrungshemmtest) |
| | 674 mg/l (Scenedesmus subspicatus) |
| LC50/96h | 62 mg/l (Danio rerio.) |
| | 81 mg/l (piscis) |
| | 100 mg/l (lepomis macrochirus) |
| | 62 mg/l (Leuciscus idus) (DIN 38412) |
| | 18 mg/l (pimephales promelas) (OECD 203) |

· **12.2 Persistence and degradability** No further relevant information available.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **12.5 Results of PBT and vPvB assessment**
· PBT: Not applicable.
· vPvB: Not applicable.
· **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
· **12.7 Other adverse effects**
· Additional ecological information:
· General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

## SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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| · European waste catalogue | |
|---|---|
| 20 00 00 | MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS |
| 20 01 00 | separately collected fractions (except 15 01) |
| 20 01 13* | solvents |

· Uncleaned packaging:
· Recommendation: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
· Recommended cleansing agents: Alcohol

## SECTION 14: Transport information

· **14.1 UN number or ID number**
· ADR, IMDG, IATA: UN3295

· **14.2 UN proper shipping name**
· ADR: 3295 HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics, 2,2,4,6,6-pentamethylheptan), ENVIRONMENTALLY HAZARDOUS
· IMDG: HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics, 2,2,4,6,6-pentamethylheptan), MARINE POLLUTANT
· IATA: HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics, 2,2,4,6,6-pentamethylheptan)

· **14.3 Transport hazard class(es)**

· ADR

· Class: 3 (F1) Flammable liquids.
· Label: 3

· IMDG

· Class: 3 Flammable liquids.
· Label: 3

· IATA

· Class: 3 Flammable liquids.
· Label: 3

· **14.4 Packing group**
· ADR, IMDG, IATA: III

· **14.5 Environmental hazards:** Product contains environmentally hazardous substances:

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| | |
|---|---|
| · Marine pollutant: | Symbol (fish and tree) |
| · Special marking (ADR): | Symbol (fish and tree) |
| · **14.6 Special precautions for user** | Warning: Flammable liquids. |
| · Hazard identification number (Kemler code): | 30 |
| · EMS Number: | F-E,S-D |
| · Stowage Category | A |
| · **14.7 Maritime transport in bulk according to IMO instruments** | Not applicable. |
| · Transport/Additional information: | |
| · ADR | |
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · Transport category | 3 |
| · Tunnel restriction code | D/E |
| · IMDG | |
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · UN "Model Regulation": | UN 3295 HYDROCARBONS, LIQUID, N.O.S. (HYDROCARBONS, C10-C12, ISOALKANES, <2% AROMATICS, 2,2,4,6,6-PENTAMETHYLHEPTAN), 3, III, ENVIRONMENTALLY HAZARDOUS |

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## SECTION 15: Regulatory information

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

| | |
|---|---|
| · Directive 2012/18/EU | |
| · Named dangerous substances - ANNEX I | None of the ingredients is listed. |
| · Seveso category | E2 Hazardous to the Aquatic Environment<br>P5c FLAMMABLE LIQUIDS |
| · Qualifying quantity (tonnes) for the application of lower-tier requirements | 200 t |
| · Qualifying quantity (tonnes) for the application of upper-tier requirements | 500 t |
| · REGULATION (EC) No 1907/2006 ANNEX XVII | Conditions of restriction: 3 |

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

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# Safety data sheet
**according to 1907/2006/EC, Article 31**

Printing date 28.06.2023 Version number 2 (replaces version 1) Revision: 28.06.2023

**Trade name: Color Intensifier**

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· Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57
None of the ingredients is listed.

· VOC EU 625.8 g/l

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information
This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.
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.

· Department issuing SDS: Laboratory
· Date of previous version: 19.07.2022
· Version number of previous version: 1
· Abbreviations and acronyms:
ICAO: International Civil Aviation Organisation
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
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
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
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
Flam. Liq. 3: Flammable liquids – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4