# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Product Name** IC-2BK009 PRINTING INK

**Pure substance/mixture** Mixture

Contains Methyl ethyl ketone; Amines, C12-14-tert-alkyl, compounds with 1-[[5-(1, 1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes

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

**Recommended use** Printing inks

**Uses advised against** Consumer uses: Private households (= general public = consumers)

**Reason why uses advised against** For industrial use only

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

Supplier Inkminic Logo Technology (Guangzhou) Co., Ltd

### 1.4. Emergency telephone number

Emergency Telephone For emergencies call 020-32954560 (24 Hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

| | |
|---|---|
| **Flammable liquids** | Category 2 - (H225) |
| **Serious eye damage/eye irritation** | Category 2 - (H319) |
| **Reproductive toxicity** | Category 1B - (H360FD) |
| **Specific target organ toxicity (single exposure)** | Category 3 - (H336) |

| | |
|---|---|
| Category 3 Narcotic effects | |
| **Chronic aquatic toxicity** | Category 3 - (H412) |

**2.2. Label elements**

Contains Methyl ethyl ketone; Amines, C12-14-tert-alkyl, compounds with 1-[[5-(1, 1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes



**Signal word**
Danger

**Hazard statements**
H225 - Highly flammable liquid and vapour
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H360FD - May damage fertility. May damage the unborn child
EUH066 - Repeated exposure may cause skin dryness or cracking

**Precautionary statements**
P201 - Obtain special instructions before use
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P273 - Avoid release to the environment
P308 + P313 - IF exposed or concerned: Get medical advice/attention
P405 - Store locked up
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

**Additional information**
This product requires tactile warnings if supplied to the general public.

**2.3. Other hazards**

No information available.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

| Chemical name | Weight-% | EC No (EU Index No) | UK REACH registration number | Classification according to GB CLP (SI 2020/1567 as amended) | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---|---|---|---|---|---|---|---|
| Methyl ethyl ketone 78-93-3 | 60 - <70% | (606-002-00-3) 201-159-0 | - | Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) | - | - | - |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | STOT SE 3 (H336) (EUH066) | | | |
| Ethyl alcohol 64-17-5 | 10 - <20% | (603-002-00-5) 200-578-6 | - | Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) | - | - | - |
| Amines, C12-14-tert-alkyl, compounds with 1-[[5-(1, 1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes 117527-94-3 | 3 - <10% | 938-781-3 (611-044-00-0) | - | Repr. 1B (H360FD) | - | - | - |
| 2-Naphthalenol 135-19-3 | 0.1 - 0.29% | (604-007-00-5) 205-182-7 | - | Acute Tox. 4 (H302) Acute Tox. 4 (H332) Aquatic Acute 1 (H400) | - | - | - |

| Chemical name | Weight-% |
|---|---|
| Non-hazardous ingredients | 10 - <20% |

**Full text of H- and EUH-phrases: see section 16**

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor.

**Self-protection of the first aider** Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

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

**Symptoms** May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Effects of Exposure** May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility.

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

**Note to doctors** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Dry Fog. Dry chemical. Carbon dioxide (CO2). Alcohol resistant foam.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards arising from the chemical** Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Flammable. Containers may explode when heated.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Harmful gases orvapours. Carbon monoxide (CO). Carbon dioxide (CO2).

### 5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** Wear fire and flame resistant and retardant clothing. Avoid discharge to the aquatic environment. Do not allow run-off from fire-fighting to enter drains or water courses. If risk of water pollution occurs, notify appropriate authorities.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. Do not touch or walk through spilled material.

**Other information** Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect

run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** Use personal protection recommended in Section 8. See Section 11 for additional Toxicological Information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up.

**Storage Class** Flammable liquid

### 7.3. Specific end use(s)

**Specific use(s)**
The identified uses for this product are detailed in Section 1.2.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Exposure Limits**

| Chemical name | United Kingdom |
|---|---|
| Methyl ethyl ketone<br>78-93-3 | TWA: 200 ppm<br>TWA: 600 mg/m$^3$<br>STEL: 300 ppm<br>STEL: 899 mg/m$^3$ |

| | Sk* |
|---|---|
| Ethyl alcohol<br>64-17-5 | TWA: 1000 ppm<br>TWA: 1920 mg/m³<br>STEL: 3000 ppm<br>STEL: 5760 mg/m³ |
| Amines, C12-14-tert-alkyl, compounds with 1-[[5-(1, 1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes<br>117527-94-3 | TWA: 0.5 mg/m³<br>STEL: 1.5 mg/m³ |

**Biological occupational exposure limits**

| Chemical name | United Kingdom |
|---|---|
| Methyl ethyl ketone<br>78-93-3 | 70 µmol/L - urine (Butan-2-one) - post shift |

**Derived No Effect Level (DNEL) - Workers**

| Chemical name | Oral | Dermal | Inhalation |
|---|---|---|---|
| Methyl ethyl ketone<br>78-93-3 | | 1161 mg/kg bw/day [4] [6] | 600 mg/m³ [4] [6], 900 mg/m³ [3] [5] |
| Ethyl alcohol<br>64-17-5 | | 343 mg/kg bw/day [4] [6] | 950 mg/m³ [4] [6]<br>1900 mg/m³ [5] [7] |
| Amines, C12-14-tert-alkyl, compounds with 1-[[5-(1, 1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes<br>117527-94-3 | | 0.13 mg/kg bw/day [4] [6] | 0.94 mg/m³ [4] [6] |

**Notes**

**[3]** Developmental effects.
**[4]** Systemic health effects.
**[5]** Local health effects.
**[6]** Long term.
**[7]** Short term.

**Derived No Effect Level (DNEL) - General Public**

| Chemical name | Oral | Dermal | Inhalation |
|---|---|---|---|
| Methyl ethyl ketone<br>78-93-3 | 31 mg/kg bw/day [4] [6] | | 106 mg/m³ [4] [6] |
| Ethyl alcohol<br>64-17-5 | 87 mg/kg bw/day [4] [6] | | 114 mg/m³ [4] [6]<br>950 mg/m³ [5] [7] |
| Amines, C12-14-tert-alkyl, compounds with 1-[[5-(1, 1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes | 0.07 mg/kg bw/day [4] [6]<br>0.08 mg/kg bw/day [4] [6] | | 0.23 mg/m³ [4] [6] |

| Chemical name | Oral | Dermal | Inhalation |
|---|---|---|---|
| 117527-94-3 | | | |

**Notes**

**[4]** Systemic health effects.
**[5]** Local health effects.
**[6]** Long term.
**[7]** Short term.

**Predicted No Effect Concentration (PNEC)**

| Chemical name | Freshwater | Freshwater (intermittent release) | Marine water | Marine water (intermittent release) | Air |
|---|---|---|---|---|---|
| Methyl ethyl ketone 78-93-3 | 55.8 mg/L | 55.8 mg/L | 55.8 mg/L | | |
| Ethyl alcohol 64-17-5 | 0.96 mg/L | 2.75 mg/L | | 0.79 mg/L | |
| Amines, C12-14-tert-alkyl, compounds with 1-[[5-(1, 1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes 117527-94-3 | 0.1 mg/L | 1 mg/L | 0.01 mg/L | | |

| Chemical name | Freshwater sediment | Marine sediment | Sewage treatment | Soil | Food chain |
|---|---|---|---|---|---|
| Methyl ethyl ketone 78-93-3 | 284.74 mg/kg sediment dw | 284.7 mg/kg sediment dw | 709 mg/L | 22.5 mg/kg soil dw | 1000 mg/kg food |
| Ethyl alcohol 64-17-5 | 3.6 mg/kg | 2.9 mg/kg | 580 mg/L | 0.63 mg/kg | |
| Amines, C12-14-tert-alkyl, compounds with 1-[[5-(1, 1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes 117527-94-3 | 0.54 mg/kg sediment dw | 0.054 mg/kg sediment dw | 10 mg/L | 0.049 mg/kg soil dw | |

**8.2. Exposure controls**

**Engineering controls** Use engineering controls to keep exposures below the OEL or DNEL. Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Gloves**
Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, our recommended gloves can be worn. Alternative suitable glove can be chosen in consultation with glove suppliers/manufacturers, who can provide information about the breakthrough time of the glove material.

| PPE - Glove material | Glove thickness | Break through time |
|---|---|---|
| Wear protective butyl rubber gloves | 0.7 mm | 120 min |

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure adequate ventilation.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water. Keep container tightly closed.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Physical state** | Liquid |
| **Appearance** | Liquid |
| **Colour** | Black |
| **Odour** | Ketone-like odour. |
| **Odour threshold** | 5 ppm Data is for major component in product |

| Property | Values | Remarks • Method |
|---|---|---|
| **Melting point / freezing point** | -86 °C | Data is for major component in product |
| **Initial boiling point and boiling range** | ~ 79.61 °C | @ 1013 hPa |
| **Flammability** | No data available | flammable liquid |
| **Flammability Limit in Air** | | |
| **Upper flammability or explosive limits** | 11.5 | |
| **Lower flammability or explosive limits** | 1.8 | |
| **Flash point** | -5 °C | closed cup |
| **Autoignition temperature** | 404 °C | |
| **Decomposition temperature** | 550 - 650 °C | |
| **pH** | No data available | |
| **Kinematic viscosity** | No data available | |
| **Dynamic viscosity** | 5.4-6.6 cP @ 25°C | |
| **Water solubility** | 270 g/L @ 20°C | |
| **Solubility(ies)** | soluble in Organic solvents | Data is for major component in product |
| **Partition coefficient** | 0.3 | Partition coefficient n-octanol /water (log Pow) |
| **Vapour pressure** | 105 hPa @ 20 °C<br>1052 hPa @ 50°C<br>126 hPa @ 25°C | |
| **Relative density** | 0.88 | |
| **Bulk density** | No data available | |
| **Liquid Density** | No data available | |

| | |
|---|---|
| **Relative vapour density** | > 1 |
| **Particle characteristics** | Not applicable Liquid |
| **Particle Size** | No information available |
| **Particle Size Distribution** | No information available |
| **Explosive properties** | Not an explosive |
| **Oxidising properties** | Does not meet the criteria for classification as oxidising |

**9.2. Other information**

| | |
|---|---|
| **Volatile organic compounds** | 76.3%, 0.67 kg/L. |
| **Evaporation rate** | 3.7 |

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

**Reactivity** See section 10.3 for more information.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

| | |
|---|---|
| **Sensitivity to mechanical impact** | None. |
| **Sensitivity to static discharge** | Yes. |

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** Reacts with oxidisers, halogens and acids by generating heat.

**10.4. Conditions to avoid**

**Conditions to avoid** Heat, flames and sparks.

**10.5. Incompatible materials**

**Incompatible materials** Reacts with oxidisers, halogens and acids by generating heat.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** None under normal use conditions. Thermal decomposition can lead to release of irritating and toxic gases and vapours. Carbon dioxide (CO2). Carbon monoxide.

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

**Information on likely routes of exposure**

**Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

**Skin contact** Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Acute toxicity** .

**Numerical measures of toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document**

| | | |
|---|---|---|
| **ATEmix (oral)** | 99,999.00 | mg/kg |
| **ATEmix (dermal)** | 99,999.00 | mg/kg |
| **ATEmix (inhalation-vapour)** | 99,999.00 | mg/l |

**Component Information**

*Acute toxicity - Oral*

| Chemical name | Parameter | Effective dose | Species | Method | Remarks |
|---|---|---|---|---|---|
| Methyl ethyl ketone | LD50 | >2000 mg/kg | Rat | OECD 423 | |
| Ethyl alcohol | LD50 | 6200 mg/kg | Rat | OECD 401 | |
| Amines, C12-14-tert-alkyl, compounds with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes | LD50 | > 5000 mg/kg | Rat | OECD 401 | |
| 2-Naphthalenol | LD50 | = 1320 mg/kg | Rat | | |

*Acute toxicity - Dermal*

| Chemical name | Parameter | Effective dose | Species | Method | Remarks |
|---|---|---|---|---|---|
| Methyl ethyl ketone | LD50 | >5000 mg/kg | Rabbit | OECD 402 | |
| Ethyl alcohol | LD50 | 17100 mg/kg | Rabbit | | |
| Amines, C12-14-tert-alkyl, compounds with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes | LD50 | > 2000 mg/kg | Rat | OECD 402 | |
| 2-Naphthalenol | LD50 | > 10000 g/kg | Rabbit | | |

*Acute toxicity - Inhalation*

| Chemical name | Parameter | Effective dose | Exposure time | Species | Method | Remarks |
|---|---|---|---|---|---|---|
| Methyl ethyl ketone | LC50 | >5000 ppm | 4 h | Rat | | Not required due to oral and dermal tox results |
| Ethyl alcohol | LC50 | 117 g/m³ | 4 h | Rat | OECD 403 | males<br>females |
| 2-Naphthalenol | LC50 | 2.2 mg/L | 4 h | Rat | | |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitisation** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** Classification based on data available for ingredients. May damage fertility or the unborn child.

**STOT - single exposure** May cause drowsiness or dizziness.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**Other adverse effects** No information available.

## SECTION 12: Ecological information

**12.1. Toxicity**

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| Methyl ethyl ketone | EC50: 1220 mg/L (72h, Raphidocelis subcapitata) | LC50: 2973 mg/L (96h, Pimephales promelas) | - | EC50: >308mg/L (48h, Daphnia magna) |
| Ethyl alcohol | EC50: 275 mg/L (72 h, Chlorella vulgaris) | LC50: > 100 mg/L (96 h, Pimephales promelas) | LC50: 5800 mg/L (4 h, Paramaecium caudatum) | LC50: 5012 mg/L (48h, Ceriodaphnia) |
| Amines, C12-14-tert-alkyl, compounds with 1-[[5-(1, 1-dimethylpropyl) -2-hydroxy-3-nitrophenyl] azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-nap hthalenol chromium complexes | EC50: > 100 mg/L (72h, Desmodesmus subspicatus) | LC50: > 100 mg/L (96h, Danio rerio) | - | EC50: > 1000 mg/L (24h, Daphnia magna) |
| 2-Naphthalenol | - | LC50: 2.43 - 3.9mg/L (96h, Pimephales promelas) | - | LC50: 3.17 - 3.95mg/L (48h, Daphnia magna) |

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

Methyl ethyl ketone (78-93-3)

| Method | Exposure time | Value | Results |
|---|---|---|---|
| OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D) | 28 days | 98% Biodegradation | Readily biodegradable |

Ethyl alcohol (64-17-5)

| Method | Exposure time | Value | Results |
|---|---|---|---|
| | 5 days | >60% Biodegradation | Readily biodegradable |

### 12.3. Bioaccumulative potential

**Bioaccumulation**

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| Methyl ethyl ketone | 0.3 |
| Ethyl alcohol | -0.35 |
| Amines, C12-14-tert-alkyl, compounds with 1-[[5-(1, 1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes | 3.7 |
| 2-Naphthalenol | 1.89 |

### 12.4. Mobility in soil

**Mobility in soil** No information available.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** UN.

| Chemical name | PBT and vPvB assessment |
|---|---|
| Methyl ethyl ketone | The substance is not PBT / vPvB |
| Ethyl alcohol | The substance is not PBT / vPvB |
| Amines, C12-14-tert-alkyl, compounds with 1-[[5-(1, 1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complexes | The substance is not PBT / vPvB |
| 2-Naphthalenol | The substance is not PBT / vPvB |

### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

containers.

**Disposal of wastes** Do not mix solvent-based inks with UV-curable inks. Explosion risk. Take any precaution to avoid mixing with combustibles.

## SECTION 14: Transport information

**IATA**

| | |
|---|---|
| **14.1 UN number or ID number** | UN1210 |
| **14.2 UN proper shipping name** | PRINTING INK |
| **14.3 Transport hazard class(es)** | 3 |
| **14.4 Packing group** | II |
| **Description** | UN1210, PRINTING INK, 3, II |
| **14.5 Environmental hazards** | No |
| **14.6 Special precautions for user** | |
| **Special Provisions** | A3, A72, A192 |
| **ERG Code** | 3L |

**IMDG**

| | |
|---|---|
| **14.1 UN number or ID number** | UN1210 |
| **14.2 UN proper shipping name** | PRINTING INK |
| **14.3 Transport hazard class(es)** | 3 |
| **14.4 Packing group** | II |
| **Description** | UN1210, PRINTING INK, 3, II, (-5°C c.c.) |
| **14.5 Environmental hazards** | No |
| **14.6 Special precautions for user** | |
| **Special Provisions** | 163, 367 |
| **EmS-No.** | F-E, S-D |
| **14.7 Maritime transport in bulk according to IMO instruments** | No information available |

**RID**

| | |
|---|---|
| **14.1 UN number or ID number** | UN1210 |
| **14.2 UN proper shipping name** | PRINTING INK |
| **14.3 Transport hazard class(es)** | 3 |
| **14.4 Packing group** | II |
| **Description** | UN1210, PRINTING INK, 3, II |
| **14.5 Environmental hazards** | No |
| **14.6 Special precautions for user** | |
| **Special Provisions** | 163, 640C, 367 |
| **Classification code** | F1 |

**ADR**

| | |
|---|---|
| **14.1 UN number or ID number** | UN1210 |
| **14.2 UN proper shipping name** | PRINTING INK |
| **14.3 Transport hazard class(es)** | 3 |
| **14.4 Packing group** | II |
| **Description** | UN1210, PRINTING INK, 3, II, (D/E) |
| **14.5 Environmental hazards** | No |
| **14.6 Special precautions for user** | |
| **Special Provisions** | 163, 640C, 367 |
| **Classification code** | F1 |
| **Tunnel restriction code** | (D/E) |

## SECTION 15: Regulatory information

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

Please note, chemical names and CAS numbers can be identified as present on a regulatory list, but the pathway for exposure or scenario of use may not be applicable to Domino printing products

**National regulations**

**Authorisations and/or restrictions on use:**
This product does not contain substances subject to authorisation (UK REACH - Annex XIV). This product does not contain substances subject to restriction (UK REACH - Annex XVII).

**Persistent Organic Pollutants**
Not applicable

**Export Notification requirements**
Not applicable

**Dangerous substance category per COMAH (SI 2015/483 as amended)**
P5a - FLAMMABLE LIQUIDS
P5b - FLAMMABLE LIQUIDS
P5c - FLAMMABLE LIQUIDS

**Named dangerous substances per COMAH (SI 2015/483 as amended)**
Not applicable

**The Ozone-Depleting Substances Regulations 2015**
Not applicable

**The Biocidal Products Regulations 2001 (as amended)**

**The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)**
Not applicable

**Poisons and Explosive Precursors**
Not applicable

**International Inventories**
Contact supplier for inventory compliance status

**15.2. Chemical safety assessment**

**Chemical Safety Report** No information available

## SECTION 16: Other information

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under section 3**
H225 - Highly flammable liquid and vapour
H302 - Harmful if swallowed
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H336 - May cause drowsiness or dizziness
H360FD - May damage fertility. May damage the unborn child
H400 - Very toxic to aquatic life

**Legend**

SVHC: Substances of Very High Concern for Authorisation:

**Legend Section 8: Exposure controls/personal protection**

| | | | |
|---|---|---|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | Sk* | Skin designation |
| + | Sensitisers | | |

| Classification procedure | |
|---|---|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | On basis of test data |
| Acute inhalation toxicity - vapour | Calculation method |
| Acute inhalation toxicity - dust/mist | On basis of test data |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitisation | Calculation method |
| Skin sensitisation | Calculation method |
| Mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |
| Reproductive toxicity | Calculation method |
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

**Revision date** 07/11/2025

**Safety data sheet number** 971

**This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)**
**Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**