

# Material Safety Data Sheet

According to regulation 1907/2006/EG (REACH)

## Black Pearl

Version: 2.0 / EN

Revised: November 30, 2024



Printed: 30.01.2025



## Section 1: Chemical Product and Company Identification

Name of the mixture: Black Pearl

Application of the mixture: Industrial Solvent Inkjet Ink 45si cartridge

Company name: Novidi GmbH  
Rathausgasse 5  
12529 Schoenefeld / GERMANY

Technical information: Thomas Fox  
Telephone: +49 (30) 75437985  
Email: sales@coex.supply

## Section 2: Hazards Identification

### Classification and labelling of the of mixture:

According to regulation EG No. 1272/2008 [CLP]

| Hazard Statements |                                                                                 |
|-------------------|---------------------------------------------------------------------------------|
| H225              | Highly flammable liquid and vapor.                                              |
| H319              | Highly flammable liquid and vapor.                                              |
|                   | Causes serious eye irritation                                                   |
| H336              | May cause drowsiness and dizziness                                              |
| H412              | Harmful to aquatic organisms, with long-term effect                             |
|                   | <b>Special hazard warnings for humans and the environment: narcotic effect.</b> |

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| Precautionary Statements |                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------------------------------------------|
| P210                     | Keep away from heat / sparks / open flames / hot surfaces. Do not smoke.                                             |
| P233                     | Keep container tightly closed.                                                                                       |
| P243                     | Take precautionary measures against electrostatic charges.                                                           |
| P261                     | Avoid breathing dust / fume / gas / mist / vapor / spray.                                                            |
| P264                     | After use, wash thoroughly with soap and water..                                                                     |
| P271                     | Use only outdoors or in well-ventilated areas.                                                                       |
| P273                     | Avoid release to the environment.                                                                                    |
| P280                     | Wear protective gloves / protective clothing / eye protection / face protection.                                     |
| P303+P353+P361           | IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing.                                       |
|                          | Wash skin with water / shower.                                                                                       |
| P304+P340                | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                     |
| P305+P338+P351           | IF IN EYES: Rinse cautiously with water for several minutes.<br>Remove contact lenses if possible. Continue rinsing. |
|                          |                                                                                                                      |
| P312                     | If you feel unwell, call a POISON CENTER or doctor.                                                                  |
| P403+P235                | Keep cool in a well-ventilated place.                                                                                |
| P405                     | Keep locked up.                                                                                                      |

## Label elements

### GHS label elements

The substance is classified and labeled according to GHS (Globally Harmonized System).

### hazard pictograms



GHS 02



GHS 07



GHS 09

Signal word DANGER

### Other hazards

Chemicals are inherently dangerous. Therefore only to be handled by trained personnel with the necessary care.

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical Charakterisation:

Flammable Liquid of solvents, dyes and additives.

#### Hazardous Components

| Name                | CAS-No.<br>EG-No.    | Content<br>(weight.-%) | Classification / Labelling                                                                                                                                              |                      |
|---------------------|----------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
|                     |                      |                        | Hazard pictograms                                                                                                                                                       | Hazard statements    |
| Ethanol             | 64-17-5<br>200-578-6 | 80-90%                 |     | H 225<br>H 319       |
| co-solvents         | trade secret         | <10%                   |   | H225<br>H319<br>H336 |
| Solvent Black<br>29 |                      | 5-10%                  |                                                                                      | H411                 |
| Propanon            | 67-64-1<br>200-662-2 | 1-5%                   |                                                                                     | H225<br>H319         |

### SECTION 4: FIRST AID MEASURES

**General information:** Remove contaminated clothing  
If a doctor is consulted, please show this safety data sheet

**After inhalation:** Provide fresh air. If symptoms persist consult a doctor

**After skin contact:** Wash affected areas carefully with a mild soap and water  
If irritation develops or persists, consult a physician

**After eye contact:** Do not rub eyes. Rinse immediately with plenty of pure lukewarm water  
If irritation develops or persists, consult an ophthalmologist

**Ingestion:** Rinse mouth as soon as possible.  
If larger amounts have been swallowed, consult a doctor

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

Headache, dizziness, dizziness, dilation of pupils, nausea, excitement



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## SECTION 5: FIREFIGHTING MEASURES

### Suitable extinguishing agents:

- Match fire extinguishing measures to the environment
- CO<sub>2</sub>, extinguishing powder, water spray, foam

### For safety reasons unsuitable extinguishing agents:

- There are no extinguishing agent limitations for this substance / mixture

### Special hazards arising from the substance or mixture:

- May form explosive mixtures with air when heated.
- In case of fire development of hazardous combustion gases and vapors possible
- In case of fire Carbon monoxide and carbon dioxide can be released

### Advice for firefighters

- Wear self-contained breathing apparatus
- Wear full protective suit.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment in a case of emergency method to be used

- Do not inhale vapors
- Avoid skin and eye contact
- Remove all sources of ignition
- Ensure adequate ventilation
- Wear personal protective equipment

### Environmental precautions

- Do not empty into drains / groundwater / soil

### Procedure for cleaning / absorption:

- Absorb with absorbent material
- Wash off with water

### Methods and material for containment and cleaning

- Absorb with liquid-binding material
- Dispose the captured material properly
- Dispose contaminated material as waste according to section 13

### Reference to other sections

- For information on safe handling see section 7
- See section 8 for personal protection information
- Information on disposal, see section 13

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## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

- Keep container tightly closed
- Ensure good ventilation / exhaustion at the workplace
- Remove all sources of ignition



### Storage:

#### Requirements for storerooms and containers:

- Keep only in the original container
- Keep away from any source of ignition

#### Storage instructions if combined with other goods:

- Store away from food.

#### Further information on the storage conditions:

- Store in cool, dry conditions in tightly closed containers

#### Recommended storage temperature:

- 4-25 °C

### Handling:

- Avoid any contact with eye, avoid skin contact, avoid inhalation
- Don't eat, drink or smoke during handling
- Keep safe distance to any source of ignition

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control Parameters:

**Ethanol**; EG-No.: 200-578-6; CAS-No.: 64-17-5

Air limit values

AGW (DE): 960mg/m<sup>3</sup>, 500ml/m<sup>3</sup>; 2(II); DFG, Y: A risk of fetal damage does not need to be considered if the occupational exposure limits (AGW) and the biological limit value (BGW) are not exceeded

**2-Butanon**; EG-No.: 201-159-0; CAS-No.: 78-93-3; REACH-No.: 01-2119457290-43

Air limit values

AGW (DE): 600 mg/m<sup>3</sup>, 200 ml/m<sup>3</sup> 1 (I); DFG, H, Y

DNEL-/PNEC-values

|                |                                                         |
|----------------|---------------------------------------------------------|
| DNEL consumer: | 31 mg/kg bw/day (long term oral (systemic))             |
| DNEL consumer: | 412 mg/kg bw/day (dermal (systemic))                    |
| DNEL Worker:   | 1161 mg/kg bw/day (long term dermal (systemic))         |
| DNEL consumer: | 106 mg/m <sup>3</sup> (long term inhalative (systemic)) |
| DNEL worker:   | 600 mg/m <sup>3</sup> (long term inhalative (systemic)) |

**Propanon**; EG-No.: 200-662-2; CAS-No.: 67-64-1; REACH-No.: 01-2119471330-49

Air limit values

AGW (DE): 1200 mg/m<sup>3</sup>, 500 ml/m<sup>3</sup> 2(I); DFG, EU

DNEL-/PNEC-values

|                |                                                          |
|----------------|----------------------------------------------------------|
| DNEL consumer: | 62 mg/kg bw/day (long term oral (systemic))              |
| DNEL consumer: | 62 mg/kg bw/day (long term (systemic))                   |
| DNEL worker:   | 186 mg/kg bw/day (long term dermal (systemic))           |
| DNEL consumer: | 200 mg/m <sup>3</sup> (long term inhalative (systemic))  |
| DNEL worker:   | 2420 mg/m <sup>3</sup> (acute inhalative (local))        |
| DNEL worker:   | 1210 mg/m <sup>3</sup> (long term inhalative (systemic)) |

|       |                                                    |
|-------|----------------------------------------------------|
| PNEC: | 21 mg/l (PNEC bodies of water, periodical release) |
| PNEC: | 10,6 mg/l (PNEC bodies of water, fresh water)      |
| PNEC: | 1,06 mg/l (PNEC bodies of water, sea water)        |
| PNEC: | 30,4 mg/kg dw (PNEC sediment, fresh water)         |
| PNEC: | 3,04 mg/kg dw (PNEC sediment, sea water)           |
| PNEC: | 29,5 mg/kg dw (earth)                              |

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### Personal protective equipment:

#### General protection and hygiene measures:

- Keep away from food, drinks and animal feed
- Take off dirty, soaked clothes immediately
- Wash hands before breaks and at the end of work
- Avoid contact with eyes and skin

#### Individual protection measures

- Depending on the concentration and quantity of hazardous substances, body protection products must be selected specifically for the workplace
- The chemical resistance of the protective agents should be clarified with their suppliers

#### Respiratory protection (only required if ventilation is insufficient):

- Gas filter A (color code brown) required if vapors / aerosols are generated

#### Hand protection:

Protective gloves



- Check protective gloves for proper condition before each use
- The glove material has to be impermeable and resistant to the substances contained
- Select the glove material considering the breakthrough times, permeation rates and the degradation

#### Glove material

- Butyl rubber  $\geq 0.7$  mm
- The selection of a suitable glove should not be made considering solely on the material, but also of other factors
- Quality characteristics vary from manufacturer to manufacturer

#### Breakthrough time of glove material

- $> 240$  min

#### Eye protection

Tightly sealed goggles



#### Body protection:

- Protective clothing

#### General protection and hygiene measures:

- When dealing with chemicals or chemical preparations the usual precautionary measures are to be considered

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on the basic physical and chemical properties

#### General Information

- Physical State: Liquid
- Color: Black
- Odor: solvent
- Odor threshold: Not determined

#### Change in condition

- Melting point / melting range:  $<0\text{ }^{\circ}\text{C}$
- Boiling point / boiling range:  $> 35\text{ }^{\circ}\text{C}$

**Flash point:**  $<0\text{ }^{\circ}\text{C}$

**Ignition temperature:** approx.  $500\text{ }^{\circ}\text{C}$

**Decomposition temperature:** Not determined

**Self-ignition:** Not determined.

**Explosion hazard:** The product is not explosive

#### Explosion limits:

Lower: approx. 2 Vol%

Upper: about 13% by volume

**Oxidizing properties:** No information available

**Vapor pressure at  $20\text{ }^{\circ}\text{C}$ :** approx. 105 hPa

**Density at  $20\text{ }^{\circ}\text{C}$ :**  $0.8\text{ g / cm}^3$

**Vapor density:** Not determined

**Evaporation rate:** Not determined

**Solubility in / miscibility with water:** partially given

**Viscosity (dynamic) at  $20\text{ }^{\circ}\text{C}$ :** approx. 1.2 mPas

**Kinematic:** No information available

**Surface tension:** approx.  $25\text{ mN / m}$  at  $25\text{ }^{\circ}\text{C}$

**Other information:** No further relevant information available



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## SECTION 10: STABILITY AND REAKTIVITY

**All information provided presume the intended usage!**

**Vapors may cause an explosive mixture with air**

**Conditions to avoid:**

- Deviations from recommended storage conditions

**Materials to avoid / Hazardous reactions in question:**

- Strong bases,
- strong acids,
- strong oxidants,
- strong reducing agents

**Possible dangerous reactions:**

- No information available

**Dangerous decomposition points:**

- In case of fire, this product can release carbon dioxide, carbon monoxide, nitrogen oxides and low molecular weight hydrocarbons

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## SECTION 11: TOXICOLOGICAL INFORMATION

### Toxicological tests for the product itself:

- Not available

### Further details are based on the properties of the main ingredients:

Ethanol; EG-No.: 200-578-6; CAS-No.: 64-17-5

**Acute oral toxicity** LD50: (Rat): 7600 mg/kg

**Acute inhalation toxicity** LC50: (Rat): 4h, 20000 mg/l

2-Butanon; EG-No.: 201-159-0; CAS-No.: 78-93-3; REACH-No.: 01-2119457290-43

**Acute oral toxicity** LD50: (Rabbit): 5000 mg/kg

**Acute inhalation toxicity** LC50: (Rat): 34,5 mg/l, 4h  
LC50: (Mouse): 40 mg/l, 4h

Solvent Black 29

**Acute oral toxicity** LD50: (Rat): >2.000 mg/kg

**Acute dermal Toxicity** LD50: (Rat): >2.000 mg/kg

Propanon; EG-No.: 200-662-2; CAS-No.: 67-64-1; REACH-No.: 01-2119471330-49

**Acute oral toxicity** LD50: (Rat): 5800 mg/kg

**Acute dermal toxicity** LD50: (Rabbit): > 15800 mg/kg

**Acute inhalation toxicity** LC50: (Rat): 76 mg/l, 4h

### Skin corrosion / irritation

- There are no data available for the preparation / mixture

### Eye damage / irritation

- There are no data available for the preparation / mixture

### Irritation of the respiratory tract

- There are no data available for the preparation / mixture

### Sensitation

- There are no data available for the preparation / mixture

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- There are no data available for the preparation / mixture

### Specific target organ toxicity (single exposure)

- There are no data available for the preparation / mixture

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## SECTION 12: ECOLOGICAL INFORMATION

### General ecological information:

- Do not allow to get into water, sewage or soil

### Toxicity

#### Aquatic toxicity:

##### Fish toxicity / daphnia toxicity:

Ethanol; EG-No.: 200-578-6; CAS-No.: 64-17-5

**Acute (short term) fish toxicity:** lethal in 24h: 9000mg/l

**Harmful Limit** (small crustacean) 8700mg/l

**TGK** (bacteria): 6500mg/l

2-Butanon; EG-No.: 201-159-0; CAS-No.: 78-93-3; REACH-No.: 01-2119457290-43

**Acute (short-term) fish toxicity:** LC50: (fish): 3000mg/l, 96h

EC50: (Daphnia (water flea)): 1382mg/l, 48 h

Solvent Black 29

**Acute (short-term) fish toxicity:** LC50: (fish): 2,0mg/kg

EC50: (Daphnia magna (Big water flea)): 1.000mg/l

EC50: (alga): >0,42mg/l

Propanon; EG-No.: 200-662-2; CAS-No.: 67-64-1; REACH-No.: 01-2119471330-49

**Acute (short-term) fish toxicity:** EC50: (Daphnia magna (Big water flea)): >100 mg/l, 48h

EC50: (Lepomis macrochirus (sun fish)): 8300 mg/l, 96h

EC50: (Microalga (Selenastrum capricornutum)): 7500 mg/l, 96h

LC50: (Leuciscus idus (gold orfe)): 7500 mg/l, 96h

LC50: (Oncorhynchus mykiss (rainbow trout)): 6500 mg/l, 96h

### Persistence and degradability

- There is no data available for the mix

### Bioaccumulative Potential

- There is no data available for the mix

### Mobility in the soil

- There is no data available for the mix

### Results of PBT and vPvB assessment

- There is no data available for the mix

### Other adverse effects

- No further relevant information available

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## SECTION 13: DISPOSAL CONSIDERATIONS

**All state and local laws according to place of usage must be observed.**

### **Waste code 08 01 11**

- Paint and varnish waste, containing organic solvents or other hazardous substances

### **Waste code 15 01 02**

- Plastic packaging

### **Waste treatment method**

#### **Recommendation:**

- The product and its container should be disposed of as hazardous waste
- The disposal is regulated differently in countries and municipalities
- Kind of disposal is to be inquired with local authorities or authorized disposal company

#### **Uncleaned packaging:**

#### **Recommendation:**

- Disposal according to official local regulations

#### **Recommended cleaning agent:**

- Ethanol 70%, if necessary with the addition of cleaning agents

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## SECTION 14: TRANSPORT INFORMATION

### **UN-Number 1210 - PRINTING INK**

- Acc.to ADR/RID/GGVSEB (road)
- Acc. to IMDG/GGVSee (sea)
- Acc. to ICAO/IATA (air)
- Keep away from food and drinks
- Transport class 9
- Packing class 2

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## SECTION 15: REGULATORY INFORMATION

#### **EU and national regulations:**

- Not subject to 96/82 / EC (Major Accident Hazards),
- 2010/75 / EU (Industrial Emissions),
- 2004/42 / EC (VOC), StörfallVO, TA-Luft

#### **Water hazard class:**

WGK 2 (list classification): hazardous to water

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**No chemical safety assessment available**

## SECTION 16: OTHER INFORMATION

- The information in this safety data sheet describes the safety requirements of our product and is based on the current state of our knowledge
- The information does not constitute an assurance of product characteristics and do not establish a contractual legal relationship
- Existing laws, ordinances and regulations, even those not mentioned in this data sheet, are to be observed by the recipient/user of our products under their own responsibility

| Hazard Statements |                                                                                 |
|-------------------|---------------------------------------------------------------------------------|
| H225              | Highly flammable liquid and vapor.                                              |
| H319              | Highly flammable liquid and vapor.                                              |
|                   | Causes serious eye irritation                                                   |
| H336              | May cause drowsiness and dizziness                                              |
| H412              | Harmful to aquatic organisms, with long-term effect                             |
|                   | <b>Special hazard warnings for humans and the environment: narcotic effect.</b> |

| Precautionary Statements |                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------------------------------------------|
| P210                     | Keep away from heat / sparks / open flames / hot surfaces. Do not smoke.                                             |
| P233                     | Keep container tightly closed.                                                                                       |
| P243                     | Take precautionary measures against electrostatic charges.                                                           |
| P261                     | Avoid breathing dust / fume / gas / mist / vapor / spray.                                                            |
| P264                     | After use, wash thoroughly with soap and water..                                                                     |
| P271                     | Use only outdoors or in well-ventilated areas.                                                                       |
| P273                     | Avoid release to the environment.                                                                                    |
| P280                     | Wear protective gloves / protective clothing / eye protection / face protection.                                     |
| P303+P353+P361           | IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing.                                       |
|                          | Wash skin with water / shower.                                                                                       |
| P304+P340                | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                     |
| P305+P338+P351           | IF IN EYES: Rinse cautiously with water for several minutes.<br>Remove contact lenses if possible. Continue rinsing. |
|                          |                                                                                                                      |
| P312                     | If you feel unwell, call a POISON CENTER or doctor.                                                                  |
| P403+P235                | Keep cool in a well-ventilated place.                                                                                |
| P405                     | Keep locked up.                                                                                                      |