Identification of the Substance/Mixture and of the Company/Undertaking

1. 1. Product Identifier

   Product Name: Anthraquinone Blue, PB 60
   Article No.: 23100
   UFI: --

1. 2. Relevant identified Uses of the Substance or Mixture and Uses advised against

   Identified uses: Coloring agent for dye and varnish industry

   Uses advised against:

1. 3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

   Company: Kremer Pigmente GmbH & Co. KG
   Address: Hauptstr. 41-47, 88317 Aichstetten, Germany
   Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606
   Internet: www.kremer-pigmente.com
   EMail: info@kremer-pigmente.com
   Importer: --

1. 4. Emergency No.

   Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

2. Hazards Identification

2. 1. Classification of the Substance or Mixture

   Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

   This product does not require classification and labelling as hazardous according to CLP/GHS.

   Possible Environmental Effects:

2. 2. Label Elements

   Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

   This product does not require classification and labelling as hazardous according to CLP/GHS.

   Hazard designation: Not applicable.

   Signal word:

   Hazard designation:

   Safety designation:

   Hazardous components for labelling:

2. 3. Other Hazards

   Risk of dust explosion unter certain conditions.

Composition/Information on Ingredients
3. **Substance**

3.2. **Mixture**

*Chemical Characterization:* Pigment Blue 60, C.I. 69800

*Preparation made of:* indanthrone pigment

*Information on Components / Hazardous Ingredients:*

- **CAS-Nr:** 68439-49-6
- **EINECS-Nr:** 500-212-8
- **EC-Nr:**

  - **Alcohols, C16-18, Ethoxylated, > 20 EO (Eye Irrit. 2; H319)**
  - **0 - 5 %**

**Additional information:**

4. **First Aid Measures**

4.1. **Description of the First Aid Measures**

*General information:*

- **Remove contaminated clothes.**

*After inhalation:*

- **Supply fresh air and seek medical advice in case of complaints.**

*After skin contact:*

- **Wash off with plenty of water and soap.**

*After eye contact:*

- **Rinse open eyes with plenty of water for at least 15 minutes.**

*After ingestion:*

- **Rinse mouth and give 200 - 300 ml of water to drink.**

4.2. **Most important Symptoms and Effects, both Acute and Delayed**

*Symptoms:*

- **No further information available.**

*Effects:*

- **No further information available.**

4.3. **Indication of any Immediate Medical Attention and special Treatment needed**

*Treatment:*

- **Symptomatic treatment (decontamination, vital functions), no specific antidote known.**

5. **Fire-Fighting Measures**

5.1. **Extinguishing Media**

*Suitable extinguishing media:*

- **Extinguishing powder, foam.**

*Unsuitable extinguishing media:*

- **Carbon dioxide (CO2)**

5.2. **Special Hazards arising from the Substance or Mixture**

*Special hazards:*

next page: 3
5. 3. Advice for Firefighters

Protective equipment:

Wear self-contained respirator protective device.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with local regulations.
Avoid formation of dust: risk of dust explosion.

6. Accidental Release Measures

6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Avoid formation of dust, wear protective clothing.

6. 2. Environmental Precautions

Environmental precautions:

Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

6. 3. Methods and Material for Containment and Cleaning Up

Methods and material:

Large spills:
Clean up with suitable appliance and dispose adequately.
Small spills:
Contain with dust binding material and dispose accordingly.
Avoid dust formation.

6. 4. Reference to other Sections

Protective clothing, see Section 8.
See Section 13 for information on disposal.

7. Handling and Storage

7. 1. Precautions for Safe Handling

Instructions on safe handling:

Respiratory protection when handling without exhaust system.

Hygienic measures:

No further measures, see Section 8.

7. 2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a cool and well ventilated location.

Requirements for storage areas and containers:

No special measures necessary.

Information on fire and explosion protection:

Take measures to prevent electrostatic discharge.
Avoid dust formation.
Storage class: 11; Combustible solids (TRGS 510)

Further Information:

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900
TLV: 1.25 mg/m³ air-borne fraction (general dust limit)
TLV: 10 mg/m³ inhalable fraction (general dust limit)
Category II: substances with a resorptive effect.

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

8.2. Exposure Controls

Technical protective measures: Provide adequate ventilation in case of dust formation.

Personal Protection

General protective measures: The usual precautionary measures are to be adhered to when handling chemicals.

Protective clothing recommended due to the coloring effects of the product.

Respiratory protection: Suitable respiratory protection for lower concentration or short-term effect: particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, type P2 or FFP2).

Hand protection: Chemical protective gloves (EN 374 (Europe), F739 (US)). The manufacturer’s directions for use should be observed because of the great diversity of types.

Protective glove material: Recommended: min. 0.4 mm thickness, breakthrough time > 480 min.

Nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0.7 mm).

Eye protection: Safety glasses with protective shields (EN 166).

Body protection:

Environmental precautions:
9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

**Form:** powder

**Color:** blue

**Odor:** odorless

**Odor threshold:** no information available

**pH-Value:** 9 - 10 (10 g/l)

**Melting temperature:** > 300°C

**Boiling temperature:** not determined

**Flash point:** not available

**Evaporation rate:** This product is a non-volatile solid.

**Flammability (solid, gas):** not easily flammable

**Upper explosion limit:** not determined

**Lower explosion limit:** not determined

**Vapor pressure:** not applicable

**Vapor density:** No information available.

**Density:** ca. 1.45 g/cm³ (20°C)

**Solubility in water:** insoluble

**Coefficient of variation (n-Octanol/Water):** no information available

**Auto-ignition temperature:** Product is not auto-ignitable.

**Decomposition temperature:** No data available.

**Viscosity, dynamic:** not applicable

**Explosive properties:** Product does not present an explosion hazard.
Oxidizing properties: not oxidizing

Bulk density: 300 - 600 kg/m³

9.2. Further Information

Solubility in solvents:
Viscosity, kinematic:

Burning class:
Solvent content:
Solid content:
Particle size:
Other information: Product is not hygroscopic.
Self-heating ability: This product is not self-heating.

10. Stability and Reactivity

10.1. Reactivity
Stable if used according to specifications.

10.2. Chemical Stability
Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions
Risk of dust explosion.

10.4. Conditions to Avoid
Conditions to avoid:
Avoid heat and sources of ignition.
Avoid formation of dust.

Thermal decomposition:
No decomposition if used according to specifications.

10.5. Incompatible Materials
No information available.

10.6. Hazardous Decomposition Products
None if stored and handled according to specifications.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD₅₀, oral: > 5000 mg/kg (rat)
Not toxic after single oral exposure.

LD₅₀, dermal: > 1050 mg/kg (OECD 402)

LC₅₀, inhalation: > 5.5 mg/l (4h, rat; OECD 403)

Primary effects
Irritant effect on skin: Non irritating (rabbit)

Irritant effect on eyes: Non-irritating to eyes (rabbit; OECD 405)

Inhalation: No information available.

Ingestion: No information available

Sensitization: No sensitizing effects known.

Mutagenicity: No mutagenic effects known.

Reproductive toxicity: No negative effects.

Carcinogenicity: No cancerogenic effect (estimated).

Teratogenicity: Not considered to be teratogenic.

Specific target organ toxicity (STOT): No relevant data found.

Additional toxicological information: Aspiration hazard: not applicable

**12. Ecological Information**

12.1. Aquatic Toxicity

*Fish toxicity:* LC50: > 100 mg/l (96h, Leuciscus idus)

*Daphnia toxicity:* Not toxic within the solubility limit.

*Bacteria toxicity:* EC50: > 100 mg/l (0.5h, active sludge)

*Algae toxicity:* Not toxic within the solubility limit.

12.2. Persistency and Degradability

The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants.

12.3. Bioaccumulation

No bioaccumulation expected.

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

12.6. Other Adverse Effects

Water hazard class:
1 (German Regulation) (Assessment by list): slightly hazardous.

Behaviour in sewage systems:
Treatment and discharge of waste water into biological treatment plant should be carried out according to official national and local regulations.

Further ecological effects:
AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:
In accordance with current regulations, product may be taken to a waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.

European Waste Code (EWC):
Uncleaned packaging:
Non-contaminated packaging may be recycled.
Contaminated packaging must be disposed like the substance.

Waste Code No.:

14. Transport Information

14.1. UN Number
ADR, IMDG, IATA

14.2. UN Proper Shipping Name
ADR/RID:
No hazardous goods according to ADR (land transportation).

IMDG/IATA:
No hazardous goods according to IMDG.

14.3. Transport Hazard Classes

ADR Class:
not applicable

Hazard no.:
Classification code:
Tunnel restriction code:
IMDG Class (sea):
Hazard no.:
EmS No.:
IATA Class:

Hazard no.:

Packaging Group

ADR/RID: not applicable

IMDG: 

IATA: 

Environmental Hazards

None

Special Precautions for User

Not classified as a dangerous good under transport regulations.

Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

not applicable

Further Information

Not classified as a dangerous good under transport regulations.

Regulatory Information

Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class: 1, slightly hazardous for water (according to the German Regulation AwSV)

Local regulations on chemical accidents: Not listed.

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

Chemical Safety Assessment

A Chemical Safety Assessment is not necessary for this product.

Further Information

Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable

Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.