

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 23705 Perylene Violet, reddish

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Revised edition: 03.03.2025

Version: 2.08

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### 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

*Product Name:* Perylene Violet, reddish

*Article No.:* 23705

*UFI:* XRCW-A1NT-D00N-0TJS

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

*Identified uses:*  
Colorant for the plastics 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)

1.4.2 Poison Center:

### 2. Hazards Identification

2.1. Classification of the Substance or Mixture

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

H373  
Cat.: 2

*Specific target organ toxicity (repeated exposure), hazard category 2*

May cause damage to organs through prolonged or repeated exposure.

*Possible Environmental Effects:*

2.2. Label Elements

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

*This product is classified and labelled according to CLP/GHS regulations.*

*Hazard designation:*



GHS08-1

*Signal word:*

Warning

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### Hazard designation:

H373 May cause damage to organs through prolonged or repeated exposure.

### Safety designation:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P314 Get medical advice/attention if you feel unwell.  
P501 Dispose of contents/ container according to regional, national and international regulations.

### Hazardous components for labelling:

2.3. Other Hazards

*Can cause combustible dust concentrations in the air.  
Dust may be produced when working with this material, which can cause a mechanical irritation of eyes, nose and respiratory tract.*

## 3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

*This produkt is a mixture.*

### Chemical Characterization:

#### Information on Components / Hazardous Ingredients:

Perylene-3,4:9,10-tetracarboxydiimide (STOT RE 80 - 100 %  
2, H373); REACH Reg. No. 01-2119972290-39

CAS-Nr: 81-33-4  
EINECS-Nr: 201-344-6  
EC-Nr:

### Additional information:

#### Particle characteristics:

*This product/this mixture contains nanoforms.  
Perylene-3,4:9,10-tetracarboxydiimide (CAS 81-33-4):  
Particle size distribution: d10: d10: 5 - 50 nm; d50: 10 - 100 nm;  
d90: 30 - 100 nm  
Form: Spheres (Aspect ratio (x:1) = 1 - 3 [TEM]); Crystallinity:  
crystalline; Specific treatment: Agent(s), no specific treatment;  
Specific surface area: 15 - 150 m<sup>2</sup>/g (BET)*

## 4. First Aid Measures

4.1. Description of the First Aid Measures

### General information:

*If symptoms occur, or in case of doubt seek medical advice.  
In case of unconsciousness give nothing by mouth, place in stable side position and seek medical advice.  
First aiders: mind self-protection!  
It can be dangerous for the person administering first aid to perform mouth-to-mouth resuscitation.*

### After inhalation:

*Supply fresh air and keep patient calm.  
In case breathing is not regular or if it has stopped, seek medical advice immediately and initiate first aid measures.*

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*After skin contact:*

*Remove contaminated clothing.  
Clean skin thoroughly with soap and water or use an approved skin cleanser.  
Do not use solvents or thinners.*

*After eye contact:*

*Remove contact lenses, if present and easy to do.  
Rinse open eyes with plenty of water for at least 15 minutes.  
Consult physician.*

*After ingestion:*

*If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.*

4. 2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*Exposure to high concentrations of dust may result in upper respiratory tract (nose and throat) and pulmonary irritation.*

*Effects:*

4. 3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*In case of inhalation of decomposition products in a fire, symptoms may be delayed. Following severe exposure the patient should be kept under medical surveillance for at least 48h.*

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## 5. Fire-Fighting Measures

5. 1. Extinguishing Media

*Suitable extinguishing media:*

*Foam, carbon dioxide (CO<sub>2</sub>), extinguishing powder, water mist.*

*Unsuitable extinguishing media:*

*Water with full jet.*

5. 2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.*

*In case of fire: formation of carbon oxides, nitrogen oxides and fumes.*

5. 3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device.*

*Further information:*

*This material is toxic to aquatic organisms and has long-term effects. Firefighting water contaminated with this substance must be contained and must not be allowed to enter waterways, sewers, or drains.*

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### 6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Avoid inhalation of dust.*

*Wear protective clothing.*

6.2. Environmental Precautions

*Environmental precautions:*

*Do not allow entering sewage system or water.*

*Contact local authorities if product pollutes waterways or the sewage system.*

6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Absorb with inert material (e.g. sand, earth, vermiculite, diatomaceous earth) and place in a suitable container for disposal. Preferably clean with detergent. Avoid the use of solvents.*

6.4. Reference to other Sections

*Protective clothing, see Section 8.*

*See Section 13 for information on disposal.*

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### 7. Handling and Storage

7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Wear adequate protective clothing (see para. 8).*

*Avoid formation of dust. Do not inhale dust.*

*Hygienic measures:*

*Do not eat or drink during work. Do not smoke.*

*Remove contaminated clothing before entering dining areas.*

7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a dry and cool room.*

*Protect against heat and direct sunlight.*

*Requirements for storage areas and containers:*

*Close open containers with care and store in an upright position to avoid spilling.*

*Do not reuse container.*

*Information on fire and explosion protection:*

*Keep away from sources of heat and ignition - do not smoke.*

*Storage class:*

*Further Information:*

*Not a flammable solid according to UN transport regulations division 4.1 and GHS chapter 2.7.*

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7.3. Specific End Use(s)

*Further information:*

### 8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*No occupational exposure limits known.*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*Perylene-3,4:9,10-tetracarboxydiimide: 0.02 mg/m<sup>3</sup> (workers, inhalation, long-term exposure - local effects)*

*PNEC (Predicted No-Effect Concentration):*

*Additional Information:*

*Biological limits: no limit values available for the ingredients of this product.*

8.2. Exposure Controls

*Technical protective measures:*

*Ensure adequate ventilation, especially in confined areas.*

*Personal Protection*

*General protective measures:*

*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work. Wash contaminated clothes before reuse.*

*Respiratory protection:*

*Required in case of insufficient ventilation.*

*Use a properly fitted and approved respirator with a particulate filter if the risk assessment requires it.*

*Hand protection:*

*Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.*

*Protective glove material:*

*Eye protection:*

*Safety eyewear should be used when there is a likelihood of exposure (EN 166).*

*Body protection:*

*Staff should wear antistatic clothing made of natural fibers or heat-resistant synthetic fibers.*

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*Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.*

*Environmental precautions:*

*Do not allow entering sewerage system.*

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### 9. Physical and Chemical Properties

#### 9.1. Information on Basic Physical and Chemical Properties

*Form:* powder

*Color:* red violet

*Odor:* odorless

*Odor threshold:*

*pH-Value:* 3.7 (5 %)

*Melting temperature:* > 300°C

*Boiling temperature:*  
not applicable

*Flash point:*  
not applicable

*Evaporation rate:*  
not determined

*Flammability (solid, gas):*  
Not a flammable solid according to UN transport regulations division 4.1 and GHS chapter 2.7.

*Upper explosion limit:*  
not applicable

*Lower explosion limit:*  
not applicable

*Vapor pressure:*  
not determined

*Vapor density:*  
not determined

*Density:* 1.67 g/cm<sup>3</sup> (20°C)

*Solubility in water:* insoluble

*Coefficient of variation (n-Octanol/Water):*  
not applicable

*Auto-ignition temperature:*  
not applicable

*Decomposition temperature:* > 300°C

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*Viscosity, dynamic:*

*not determined*

*Explosive properties:*

*not explosive*

*Oxidizing properties:*

*Not applicable*

*Bulk density:*

*230 kg/m<sup>3</sup>*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Particle characteristics: This substance/ mixture contains nanoforms (see Section 3).*

*Other information:*

*Self-heating ability: This product is not a self-heating substance according to the UN class 4.2 (UN Test N.4)*

## 10. Stability and Reactivity

10.1. Reactivity

*No information available.*

10.2. Chemical Stability

*Stable if used according to specifications.*

10.3. Possibility of Hazardous Reactions

*None if handled and stored according to specifications.*

10.4. Conditions to Avoid

*Conditions to avoid:*

*May form hazardous decomposition products when exposed to high temperatures.*

*Thermal decomposition:*

10.5. Incompatible Materials

*Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.*

10.6. Hazardous Decomposition Products

*None if stored and handled according to specifications.*

10.7. Further Information

## 11. Toxicological Information

11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

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### Acute Toxicity

*Exposure to airborne concentrations above the legal or recommended limits may cause irritation of the nose, throat and lungs.*

#### LD50, oral:

*Not toxic after single oral exposure.*

*Perylene-3,4:9,10-tetracarboxydiimide: LD50: > 10000 mg/kg (rat, m/f)*

#### LD50, dermal:

*No information available.*

#### LC50, inhalation:

*No information available.*

#### Primary effects

#### Irritant effect on skin:

*Non irritating (rabbit)*

#### Irritant effect on eyes:

*Non-irritating to eyes (rabbit)*

#### Inhalation:

#### Ingestion:

#### Sensitization:

*Non sensitizing (mouse).*

#### Mutagenicity:

*No mutagenic effects known.*

#### Reproductive toxicity:

*The chemical structure does not give any particular reason to suspect such an effect. The product has not been tested. The statement is derived from the properties of the individual components.*

#### Carcinogenicity:

*No cancerogenic effect known.*

#### Teratogenicity:

*The chemical structure does not give any particular reason to suspect such an effect. The product has not been tested. The statement is derived from the properties of the individual components.*

#### Specific target organ toxicity (STOT):

*Single exposure: no information available.*

*Repeated exposure: inhalation, category 2, lungs*

#### Aspiration hazard:

*No risk of aspiration.*

### 11. 2. Information on other Hazards

*Endocrine Disrupting Properties: no information available.*

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### 12. Ecological Information

#### 12.1. Aquatic Toxicity

*Fish toxicity:*

*LC50: > 100 mg/l (96h, Danio rerio; OECD 203)*

*Daphnia toxicity:*

*No information available.*

*Bacteria toxicity:*

*EC20: > 100 mg/l (active sludge)*

*Algae toxicity:*

*No information available.*

#### 12.2. Persistency and Degradability

*Very insoluble product and can thus be removed from water mechanically in suitable effluent treatment plants.*

#### 12.3. Bioaccumulation

*Controlled release of small amounts of product in biological sewage system do not cause disorders of the biodegradability of activated sludge.*

#### 12.4. Mobility

*Partition coefficient soil/water (Koc): not available*

#### 12.5. Results of PBT- und vPvP Assessment

*This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).*

#### 12.6. Endocrine Disrupting Properties

*No data available.*

#### 12.7. Other Adverse Effects

*Water hazard class:*

*Do not let run into surface waters, waste water or soil.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*Do not release untreated into natural waters. At the present state of knowledge, no negative ecological affects are expected.*

*AOX Value:*

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### 13. Disposal Considerations

#### 13.1. Waste Treatment Methods

*Product:*

*Disposal should be avoided or minimized.*

*Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.*

*Dispose of surpluses and products unsuitable for recycling via a*

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*recognized waste disposal company. Do not discharge waste untreated into the sewage system unless all applicable regulations of the authorities are complied with.*

*Do not let product enter water systems.*

*European Waste Code (EWC):*

*040216 - Dyestuffs and pigments containing hazardous substances*

*Uncleaned packaging:*

*Exercise caution when handling empty containers that have not been cleaned or rinsed. Empty containers and linings may contain product residue. Avoid spreading and runoff of released material and contact with soil, water, drains, and sewers.*

*Product residues must be emptied out of packaging material, which must then be disposed of in the proper fashion in agreement with legal regulations.*

*Waste Code No.:*

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### 14. Transport Information

14. 1. UN Number

*ADR, IMDG, IATA*

14. 2. UN Proper Shipping Name

*ADR/RID:*

*No hazardous goods according to ADR / DOT (US) (land transportation).*

*IMDG/IATA:*

*Not hazardous goods*

14. 3. Transport Hazard Classes

*ADR Class:*

*not applicable*

*Hazard no.:*

*Classification code:*

*Tunnel restriction code:*

*IMDG Class (sea):*

*not applicable*

*Hazard no.:*

*EmS No.:*

*IATA Class:*

*not applicable*

*Hazard no.:*

14. 4. Packaging Group

*ADR/RID:*

*not applicable*

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*IMDG:*

*IATA:*

14. 5. Environmental Hazards

*None*

14. 6. Special Precautions for User

*Not classified as a dangerous good under transport regulations.*

14. 7. Maritime Transport in Bulk according to IMO Instruments

14. 8. Further Information

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### 15. Regulatory Information

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

*Water hazard class:*

*0, not hazardous (German Regulation)*

*Local regulations on chemical accidents:*

*Seveso III: does not apply*

*Employment restrictions:*

*Restriction and prohibition of application:*

*EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles: not applicable*

*Technical instructions on air quality:*

15. 2. Chemical Safety Assessment

*A Chemical Safety Assessment is not necessary for this product.*

15. 3. Further Information

*EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable*

*Regulation (EC) 2024/590 - Substances that Deplete the Ozone Layer: not regulated / not applicable*

*Regulation (EC) 649/2012 concerning the export and import of dangerous chemicals: Not applicable*

*VOC Content: not applicable*

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### 16. 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.*