

# Safety Data Sheet

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



## 43915 Bismuth-Vanadate Yellow, light

Page 1

Revised edition: 19.12.2022

Version: 2

Printed: 06.02.2023

---

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

#### 1.1. Product Identifier

*Product Name:* Bismuth-Vanadate Yellow, light

*Article No.:* 43915

*UFI:* --

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

*Identified uses:*  
Pigment

*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

*E-Mail:* 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)*

*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)*

*No classification required according to the CLP/GHS guidelines.*

*Hazard designation:*

*Not applicable.*

*Signal word:*

*Hazard designation:*

*Safety designation:*

*Hazardous components for labelling:*

#### 2.3. Other Hazards

---

### 3. Composition/Information on Ingredients

Substance

next page: 2

# Safety Data Sheet

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



## 43915 Bismuth-Vanadate Yellow, light

Page 2

Revised edition: 19.12.2022

Version: 2

Printed: 06.02.2023

3.1.

### 3.2. Mixture

*Chemical Characterization:* Bismuth vanadate. Pigment Yellow 184, C.I. 771740

*Information on Components / Hazardous Ingredients:*

Bismuth-vanadium tetraoxide, C.I. Pigment Yellow 184 (STOT RE 2, H373); REACH Reg. No. 01-2119486965-17-0000 < 1 %

CAS-Nr: 14059-33-7

EINECS-Nr: 237-898-0

EC-Nr:

*Additional information:*

## 4. First Aid Measures

### 4.1. Description of the First Aid Measures

*General information:*

*Intoxication symptoms may occur after several hours, therefore a 48 hour medical observation is necessary.*

*After inhalation:*

*Supply fresh air. Consult physician if symptoms persist.*

*After skin contact:*

*This product is in general not irritating to the skin.*

*After eye contact:*

*Rinse open eyes with plenty of water. In case of discomfort seek medical help.*

*After ingestion:*

*Rinse mouth thoroughly with plenty of water and drink plenty of water. Consult a physician.*

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

*Symptoms:*

*No further information available.*

*Effects:*

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

*Treatment:*

*No further information available.*

## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Use extinguishing media for surrounding fire.*

*Unsuitable extinguishing media:*

*Water with full jet.*

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

*Special hazards:*

*No information available.*

next page: 3

# Safety Data Sheet

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



## 43915 Bismuth-Vanadate Yellow, light

Page 3

Revised edition: 19.12.2022

Version: 2

Printed: 06.02.2023

---

### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device.*

*Further information:*

*Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.*

---

## 6. Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Avoid formation of dust.*

*Respiratory protection in case of formation of vapors/dust/aerosol.*

*Wear protective clothing.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soils, drains and surface water.*

### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Take up mechanically.*

### 6.4. Reference to other Sections

*For information for safe handling see Section 7.*

*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:*

*No special measures required.*

*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 dry and cool room.*

*Requirements for storage areas and containers:*

*Information on fire and explosion protection:*

*Product is not combustible.*

*No special measures necessary.*

*Storage class:*

*Further Information:*

### 7.3. Specific End Use(s)

*Further information:*

---

next page: 4

# Safety Data Sheet

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



## 43915 Bismuth-Vanadate Yellow, light

Page 4

Revised edition: 19.12.2022

Version: 2

Printed: 06.02.2023

---

### 8. Exposure Controls/Personal Protection

#### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*none known*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

#### 8.2. Exposure Controls

*Technical protective measures:*

*No further measures, see Section 7.*

*Personal Protection*

*General protective measures:*

*The usual precautionary measures are to be adhered to when handling chemicals.*

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

*Do not inhale dust/fumes/mist.*

*Respiratory protection:*

*In case of long-term or higher exposure.*

*Hand protection:*

*Protective gloves. The glove material has to be impermeable and resistant to the product / substance / preparation.*

*Protective glove material:*

*Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time.*

*Eye protection:*

*Safety glasses (EN 166)*

*Body protection:*

*Protective clothing.*

*Environmental precautions:*

---

### 9. Physical and Chemical Properties

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

*Form:* *powder*

*Color:* *bright yellow*

*Odor:* *characteristic*

*Odor threshold:*

*no information available*

next page: 5

# Safety Data Sheet

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



## 43915 Bismuth-Vanadate Yellow, light

Page 5

Revised edition: 19.12.2022

Version: 2

Printed: 06.02.2023

---

<i>pH-Value:</i>	7 - 8 (20°C)
<i>Melting temperature:</i>	> 1000°C
<i>Boiling temperature:</i>	not determined
<i>Flash point:</i>	not applicable
<i>Evaporation rate:</i>	not applicable
<i>Flammability (solid, gas):</i>	non-combustible
<i>Upper explosion limit:</i>	not determined
<i>Lower explosion limit:</i>	not determined
<i>Vapor pressure:</i>	not applicable
<i>Vapor density:</i>	No information available.
<i>Density:</i>	5.42 - 6 g/cm <sup>3</sup>
<i>Solubility in water:</i>	insoluble
<i>Coefficient of variation (n-Octanol/Water):</i>	not determined
<i>Auto-ignition temperature:</i>	Product is not auto-ignitable (Test type: Spontaneous self-ignition at room temperature)
<i>Decomposition temperature:</i>	not determined
<i>Viscosity, dynamic:</i>	not applicable
<i>Explosive properties:</i>	Product does not present an explosion hazard.
<i>Oxidizing properties:</i>	no information available

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

next page: 6

# Safety Data Sheet

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



## 43915 Bismuth-Vanadate Yellow, light

Page 6

Revised edition: 19.12.2022

Version: 2

Printed: 06.02.2023

---

*Solid content:*

100 %

*Particle size:*

*Other information:*

---

### 10. Stability and Reactivity

#### 10.1. Reactivity

*Stable if used according to specifications.*

#### 10.2. Chemical Stability

*No decomposition if used according to specifications.*

#### 10.3. Possibility of Hazardous Reactions

*Unknown.*

#### 10.4. Conditions to Avoid

*Conditions to avoid:*

*No information available.*

*Thermal decomposition:*

#### 10.5. Incompatible Materials

*None known.*

#### 10.6. Hazardous Decomposition Products

*None known.*

#### 10.7. Further Information

---

### 11. Toxicological Information

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

*Acute Toxicity*

*Pigment Yellow 184 (CAS 14059-33-7) airborne fraction, particle size < 10 µm:*

*LD50, oral:*

*> 5000 mg/kg (rat)*

*LD50, dermal:*

*LC50, inhalation:*

*< 5.1 mg/l (4h, rat)*

*Primary effects*

*Irritant effect on skin:*

*Non irritating*

*Irritant effect on eyes:*

*Non-irritating to eyes*

*Inhalation:*

*No information available.*

*Ingestion:*

*No information available*

*Sensitization:*

*No sensitizing effects known.*

*Mutagenicity:*

next page: 7

# Safety Data Sheet

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



## 43915 Bismuth-Vanadate Yellow, light

Page 7

Revised edition: 19.12.2022

Version: 2

Printed: 06.02.2023

---

*No mutagenic effects known.*

*Reproductive toxicity:*

*No reproductive toxicity expected.*

*Carcinogenicity:*

*No cancerogenic effect known.*

*Teratogenicity:*

*No teratogenic effects expected.*

*Specific target organ toxicity (STOT):*

*Repeated exposure: no organospecific toxicity expected.*

*Single exposure: no organospecific toxicity expected.*

*Aspiration hazard*

*No risk of aspiration.*

### 11.2. Information on other Hazards

*Endocrine Disrupting Properties:*

*Not listed.*

---

## 12. Ecological Information

### 12.1. Aquatic Toxicity

*Pigment Yellow 184 (CAS 14059-33-7) airborne fraction, particle size < 10 µm:*

*Fish toxicity:*

*LC50: > 10000 mg/l (96h, Danio rerio)*

*Daphnia toxicity:*

*EC50: > 100 mg/l (48h, Daphnia magna)*

*Bacteria toxicity:*

*No data available.*

*Algae toxicity:*

*ErC50: > 100 mg/l (Desmodesmus subspicatus)*

### 12.2. Persistency and Degradability

*Methods for the evaluation of the biological degradability are not applicable for inorganic substances.*

### 12.3. Bioaccumulation

*Considered unlikely to bioaccumulate.*

### 12.4. Mobility

*Low potential to adsorb on soil (logPOW < 3)*

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

*Not applicable.*

### 12.6. Endocrine Disrupting Properties

*Not listed.*

### 12.7. Other Adverse Effects

*Water hazard class:*

*1, slightly hazardous (German Regulation; Self-assessment).*

*Do not allow undiluted product or large quantities of it to reach*

next page: 8

# Safety Data Sheet

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



## 43915 Bismuth-Vanadate Yellow, light

Page 8

Revised edition: 19.12.2022

Version: 2

Printed: 06.02.2023

---

*ground water, waterways or sewage system.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*AOX Value:*

---

### 13. Disposal Considerations

#### 13.1. Waste Treatment Methods

*Product:*

*Dispose of according to official national and local regulations.  
Must not be disposed together with household garbage.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*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 / 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*

next page: 9

# Safety Data Sheet

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



## 43915 Bismuth-Vanadate Yellow, light

Page 9

Revised edition: 19.12.2022

Version: 2

Printed: 06.02.2023

---

*IMDG:*

*IATA:*

14. 5. Environmental Hazards

*no*

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

*not applicable*

14. 8. Further Information

---

### 15. Regulatory Information

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

*Water hazard class:*

*1, slightly hazardous for water (German Regulation, self-assessment)*

*Local regulations on chemical accidents:*

*Seveso III Directive: not applicable under Directive 2012/18/EC.*

*Employment restrictions:*

*Restriction and prohibition of application:*

*Technical instructions on air quality:*

15. 2. Chemical Safety Assessment

*A Chemical Safety Assessment has been carried out for this product.*

15. 3. Further Information

*Regulation (EU) No. 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.*

*Regulation (EC) 273/2004, On Drug Precursors, Category 3: None of the ingredients is listed.*

*Regulation (EC) 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors: not forbidden and/or not restricted*

*RoHS Directive 2011/65/EC on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS): not listed.*

---

### 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.*