

Safety Data Sheet

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



43918 Bismuth-Vanadate Yellow, medium

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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, medium

Article No.: 43918

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

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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.

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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:

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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

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<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 ³
<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:

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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:

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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

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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

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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.