

Hostaperm Oxide Yellow BV 02

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Substance key: 000000507246

Revision Date: 30.11.2022

Version : 1 - 5 / EU

Date of printing : 06.03.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

Hostaperm Oxide Yellow BV 02

Material number: 270141

Identification of the substance according to its REACH registration

bismuth vanadium tetraoxide

REACH - Registration number 01-2119486965-17-0002
according to article 20(3):

Chemical nature: Bismuth vanadium oxide pigment (C.I. Pigment Yellow 184)

CAS number : 14059-33-7

EC number : 237-898-0

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Industry sector : Industrial Performance Chemicals
Paints, lacquers and varnishes industry
Polymers industry
Printing Inks Industry
Type of use : Colorant/inorganic pigment

1.3. Details of the supplier of the safety data sheet

Identification of the company

Heubach Colorants Germany GmbH
Brüningstraße 50
65929 Frankfurt am Main
Telephone no. : +49 69 305 13619

Information about the substance/mixture

Product Stewardship
e-mail: SDS.PI.Europe@clariant.com

1.4. Emergency telephone number

00800-5121 5121 (24 h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling

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EUH210 Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Dust can form an explosive mixture in air.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name : Bismuth vanadium oxide pigment (C.I. Pigment Yellow 184)

EC-No. : 237-898-0

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
C.I. Pigment Yellow 184, particle size < 10µm	14059-33-7 237-898-0	>= 1 - < 10	

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Get medical advice/ attention if you feel unwell.

If inhaled : Remove to fresh air.

In case of skin contact : IF ON SKIN: Wash with plenty of soap and water.

In case of eye contact : Rinse the affected eye with plenty of water, at the same time keep the unaffected eye well protected.

If swallowed : If swallowed do not induce vomiting, seek medical advice and show safety datasheet or label

4.2 Most important symptoms and effects, both acute and delayed

Risks : No additional hazards are known except those derived from the labelling.

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4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : The product itself does not burn.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : None known.

5.3 Advice for firefighters

Special protective equipment for firefighters : Self-contained breathing apparatus

Further information : Wear suitable protective equipment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective equipment.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Take up mechanically
Treat recovered material as described in the section "Disposal considerations".

6.4 Reference to other sections

Information regarding Safe handling, see chapter 7.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : not required under normal use
Avoid dust formation.

Advice on protection against fire and explosion : No special protective measures against fire required.

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Hygiene measures : Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off immediately all contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care.

7.3 Specific end use(s)

Specific use(s) : No further recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
C.I. Pigment Yellow 184, particle size < 10µm CAS-No.: 14059-33-7	Workers	Inhalation	Long-term local effects	0,02 mg/m3
	Remarks:DNEL			
	Consumers	Inhalation	Long-term local effects	0,005 mg/m3
	Remarks:DNEL			
	Consumers	Oral	Long-term systemic effects	20 mg/kg bw/day
	Remarks:DNEL			
C.I. Pigment Yellow 184, particle size > 10µm CAS-No.: 14059-33-7	Workers	Inhalation	Long-term local effects	0,02 mg/m3
	Remarks:DNEL			
	Consumers	Inhalation	Long-term local effects	0,005 mg/m3
	Remarks:DNEL			
	Consumers	Oral	Long-term systemic effects	0,33 mg/kg bw/day
	Remarks:DNEL			
	Workers	Dermal	Long-term systemic effects	0,67 mg/kg bw/day
	Remarks:DNEL			
	Consumers	Dermal	Long-term systemic effects	0,33 mg/kg bw/day
	Remarks:DNEL			

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
C.I. Pigment Yellow 184, particle	Sewage treatment plant	10000 mg/l

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size < 10µm CAS-No.: 14059-33-7		
C.I. Pigment Yellow 184, particle size > 10µm CAS-No.: 14059-33-7	Sewage treatment plant	10000 mg/l

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Hand protection

Remarks : Nitrile rubber gloves. Minimum breakthrough time (glove): not determined Minimum thickness (glove): not determined Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection : working clothes

Respiratory protection : Wear dust mask when handling large quantities

Protective measures : Wear suitable protective equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : powder

Colour : greenish yellow

Odour : odourless

Odour Threshold : not required

Melting point : > 1.000 °C

Boiling point : Not applicable

Upper explosion limit / upper flammability limit : Not applicable

Lower explosion limit / Lower flammability limit : Not applicable

Flash point : Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : approx. 1.000 °C
Method: DTA

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pH	:	6 - 8
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	not determined
Vapour pressure	:	Not applicable
Relative density	:	no data available
Density	:	5,7 g/cm ³
Bulk density	:	500 kg/m ³
Relative vapour density	:	Not applicable
Particle characteristics		
Particle size	:	not determined

9.2 Other information

Explosives	:	no data available
Oxidizing properties	:	no data available
Flammable solids		
Burning number	:	not determined
Self-ignition	:	no data available
Metal corrosion rate	:	Not applicable
Evaporation rate	:	Not applicable
Minimum ignition energy	:	not determined
Molecular weight	:	no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

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10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : None.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5,15 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : Remarks: no data available

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity
Remarks: The toxicological data has been taken from products of similar composition.

Acute inhalation toxicity : LC50 (Rat): > 5,1 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: The toxicological data has been taken from products of similar composition.

Acute dermal toxicity : Remarks: no data available

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Skin corrosion/irritation

Product:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

Species : Rabbit
Method : OECD Test Guideline 404
Result : non-irritant
Remarks : The toxicological data has been taken from products of similar composition.

Serious eye damage/eye irritation

Product:

Species : rabbit eye
Method : OECD Test Guideline 405
Result : No eye irritation

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

Species : Rabbit
Method : OECD Test Guideline 405
Result : non-irritant
Remarks : The toxicological data has been taken from products of similar composition.

Respiratory or skin sensitisation

Product:

Species : Guinea pig
Method : OECD Test Guideline 406
Result : non-sensitizing

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.
Remarks : By analogy with a product of similar composition

Assessment : No skin irritation, No eye irritation
Did not cause sensitisation on laboratory animals.

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Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: no data available

Germ cell mutagenicity-
Assessment : No information available.

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

Germ cell mutagenicity-
Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects., The product has not been tested. The information is derived from the properties of the individual components.

Carcinogenicity

Product:

Carcinogenicity -
Assessment : No information available.

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

Carcinogenicity -
Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity

Product:

Reproductive toxicity -
Assessment : No information available.

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

Reproductive toxicity -
Assessment : No information available.
No information available.

STOT - single exposure

Product:

Remarks : no data available

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

Remarks : No significant adverse effects were reported

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STOT - repeated exposure

Product:

Remarks : no data available

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

Exposure routes : Inhalation
Target Organs : Lungs
Assessment : May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Product:

Remarks : This information is not available.

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

Aspiration toxicity

Product:

no data available

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1.000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l

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aquatic invertebrates		Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	:	Remarks: no data available
Toxicity to microorganisms	:	Remarks: no data available

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 10.000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: The details of the toxic effect relate to the nominal concentration. No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: Tested according to Directive 92/69/EEC. Remarks: The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous dispersion was tested. No toxicity at the limit of solubility
Toxicity to algae/aquatic plants	:	(Desmodesmus subspicatus (green algae)): > 100 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 Remarks: The details of the toxic effect relate to the nominal concentration. By analogy with a product of similar composition
Toxicity to microorganisms	:	EC10 (Pseudomonas putida): > 10.000 mg/l End point: Growth rate Exposure time: 16 h Method: Cell multiplication inhibition test Remarks: The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous dispersion was tested. No toxicity at the limit of solubility
Toxicity to fish (Chronic toxicity)	:	Remarks: no data available

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: no data available

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

Impact on Sewage Treatment : May be separated mechanically in waste water plants. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: no data available

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

Bioaccumulation : Species: Oryzias latipes (Japanese medaka)
Exposure time: 56 d
Bioconcentration factor (BCF): < 14
Method: OECD Test Guideline 305
Remarks: Does not accumulate in organisms.
By analogy with a product of similar composition

12.4 Mobility in soil

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

Mobility : Remarks: Substance does not evaporate from water surface into the atmosphere.

Distribution among environmental compartments : Adsorption/Soil
Remarks: Slightly mobile in soils

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or

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very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

Assessment : The substance is not identified as a PBT or as a vPvB substance.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Environmental fate and pathways : no data available

Additional ecological information : no data available

Components:

C.I. Pigment Yellow 184, particle size < 10µm:

Environmental fate and pathways : The product includes heavy metals. Prevent release into the environment. Special pretreatment required. Should not be released into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities

Contaminated packaging : This material and its container must be disposed of in a safe way.

SECTION 14: Transport information

Section 14.1. to 14.5.

ADR not restricted

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ADN	not restricted
RID	not restricted
IATA	not restricted
IMDG	not restricted

14.6. Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors	: Neither banned nor restricted
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable

Other regulations:

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

15.2 Chemical safety assessment

Chemical Safety Assessments have been carried out for these substances.

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SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Heubach makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Heubach's products for its particular application. Nothing included in this information waives any of Heubach's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Heubach products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006



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information before handling any of these products. For additional information, please contact Heubach.

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