

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

**BRUFASOL Gelb / Yellow AL 2300**

Print date: 13.11.2018

Product code: BFSOL\_Gelb\_AL2300

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

BRUFASOL Gelb / Yellow AL 2300

**Further trade names**

Pigment Gelb 184 (Bismutvanadat, stabilisiert)

Pigment Yellow 184 (Bismuth vanadate, stabilized)

REACH Registration Number: 01-2119486965-17-0002

CAS No: 14059-33-7

EC No: 237-898-0

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

Colouring agent, pigment

Coatings and paints, fillers, putties, thinners

Identified uses: see attached exposure scenario.

**Uses advised against**

none

Further information: refer to exposure scenarios attached to this safety data sheet.

**1.3. Details of the supplier of the safety data sheet**

Company name: Bruchsaler Farbenfabrik GmbH &amp; Co. KG

Street: Talstraße 37

Place: D-76676 Bruchsal

Telephone: +49 7251 / 97 54 - 0

Telefax: +49 7251 / 1 59 53

e-mail: info@bruchsaler-farben.de

Contact person: Thomas Schleier

Telephone: +49 7251 / 97 54 - 41 \*

e-mail: technicalcenter@bruchsaler-farben.de

Internet: http://www.bruchsaler-farben.de

Responsible Department: Labor Chemie

**1.4. Emergency telephone number:** +49 7251 / 97 54 - 47 \*

+49 7251 / 97 54 - 49 \*

\*) This number is serviced during office hours.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**2.2. Label elements****Hazard components for labelling**

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**Additional advice on labelling**

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Toxicological information : see chapter 11

Ecological information : see chapter 12

**2.3. Other hazards**

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

No special precautionary measures are necessary.

**SECTION 3: Composition/information on ingredients****3.1. Substances**

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**Chemical characterization**

Colour Index Name: Pigment Yellow 184 / Colour Index No.: 771740

Composition/information on ingredients: 100% Pigment Yellow 184

particle characteristics A: respirable fraction (Particle size ( $\mu\text{m}$ ) < 10), Mass fraction (wt %): < 10%

Product is inorganic.

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
14059-33-7	A: respirable fraction Pigment Yellow 184 (Bismuth vanadate, Particle size in $\mu\text{m}$ : < 10)			< 10 %
	237-898-0		01-2119486965-17-0002	
	STOT RE 2; H373			

Full text of H and EUH statements: see section 16.

**Further Information**

According to EC directives or the corresponding national regulations the product does not have to be labelled.  
no classification in delivery state

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water. In all cases of doubt, or when symptoms persist, seek medical advice.

**4.2. Most important symptoms and effects, both acute and delayed**

The following symptoms may occur: Asthmatic complaints. difficulties of breathing.

**4.3. Indication of any immediate medical attention and special treatment needed**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

**5.2. Special hazards arising from the substance or mixture**

No risks worthy of mention.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

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**Additional information**

Suppress gases/vapours/mists with water spray jet.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Avoid dust formation. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**6.2. Environmental precautions**

No special environmental protection measures are necessary.

**6.3. Methods and material for containment and cleaning up**

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

none

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

No special handling instructions are necessary.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container dry. Keep container tightly closed in a cool, well-ventilated place.

**Further information on storage conditions**

Store in a cool dry place.

**7.3. Specific end use(s)**

The product is intended for professional use.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Additional advice on limit values**DNEL inhalation (long-term / local effects, professionals): 0,02 mg/m<sup>3</sup>DNEL inhalation (long-term / local effects, consumers): 0,005 mg/m<sup>3</sup>

DNEL oral (long-term / systematic effects, consumers): 20 mg/kg bw/day

PNEC aqua (freshwater): –

PNEC aqua (marine water): –

PNEC aqua (intermittent releases): –

PNEC sediment (freshwater): –

PNEC sediment (marine water): –

PNEC soil: –

PNEC sewage treatment plant: 10000 mg/l

PNEC oral: –

**8.2. Exposure controls****Appropriate engineering controls**

see attached exposure scenario.

**Protective and hygiene measures**

Change contaminated clothing. Protect skin by using skin protective cream. After work, wash hands and face.

Do not eat, drink, smoke or sneeze at the workplace.

**Eye/face protection**

Tightly sealed safety glasses.

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**Hand protection**

Wash hands before breaks and after work.

**Skin protection**

Protective clothing: Street clothing should be stored separately from work clothing.

**Respiratory protection**

Respiratory protection: In the case of the formation of dust.

Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

**Environmental exposure controls**

see attached exposure scenario.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	solid: Powder
Colour:	yellow
Odour:	odourless

**Test method**

pH-Value:	6 - 8
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**Changes in the physical state**

Melting point:	>1000 °C
Flash point:	Non-flammable.
Ignition temperature:	Non-flammable.
Density:	5,0 - 6,0 g/cm <sup>3</sup>
Water solubility:	insoluble

**9.2. Other information**

Solid content:	>99 %
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Further information: see technical data sheet.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No ignition, explosion, self-heating or visible decomposition.

**10.2. Chemical stability**

The product is stable.

**10.3. Possibility of hazardous reactions**

No risks worthy of mention.

**10.4. Conditions to avoid**

No special measures are necessary.

**10.5. Incompatible materials**

No special precautionary measures are necessary.

**10.6. Hazardous decomposition products**

Hazardous decomposition products: No.

**SECTION 11: Toxicological information**

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**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

Toxicological tests

**Acute toxicity**

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
14059-33-7	A: respirable fraction Pigment Yellow 184 (Bismuth vanadate, Particle size in µm: < 10)			
	oral	LD50 >5000 mg/kg	Rat (Wistar)	
	inhalative aerosol	LC50 >5,15 mg/l	Rat (Wistar)	

**Irritation and corrosivity**

Irritant effect on the skin: Not an irritant.

species: Rabbit

OECD 404

Irritant effect on the eye: Not an irritant.

Species: Rabbit

OECD 405

**Additional information on tests**

Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information****12.1. Toxicity**

Toxicological tests

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
14059-33-7	A: respirable fraction Pigment Yellow 184 (Bismuth vanadate, Particle size in µm: < 10)				
	Acute fish toxicity	LC50 >10000 mg/l	96 h	Danio rerio (reported as Brachydanio rerio)	
	Acute algae toxicity	ErC50 >100 mg/l		Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna	

**12.2. Persistence and degradability**

The methods for determining the biological degradability are not applicable to inorganic substances.

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**12.4. Mobility in soil**

Mobility/evaluation: Low.

**12.5. Results of PBT and vPvB assessment**

Product is inorganic.

This substance does not meet the criteria for classification as PBT or vPvB.

**12.6. Other adverse effects**

No data available

**Further information**

Based on available data, the classification criteria are not met.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

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**Advice on disposal**

Dispose of waste according to applicable legislation.

**Contaminated packaging**

Water (with cleaning agent). Completely emptied packages can be recycled.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b><u>14.1. UN number:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

<b><u>14.1. UN number:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

<b><u>14.1. UN number:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of this transport regulation.

**Air transport (ICAO)**

<b><u>14.1. UN number:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

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**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information****Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Classification according EC regulation 1272/2008 (CLP):

Labelling (EU-GHS)

**National regulatory information**

Water contaminating class (D): 3 - highly water contaminating

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has been carried out.

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#### SECTION 16: Other information

##### Relevant H and EUH statements (number and full text)

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

##### Further Information

Chemical Safety Report, Chapter 9: EXPOSURE ASSESSMENT