

Safety data sheet according to Regulation (EC) No. 1907/2006  
Date / Revised: 15 May 2023                      VER 5  
Product: **SP Yellow 02**  
(ID no. 30179356/SDS\_GEN\_EU/EN)

# MATERIAL SAFETY DATA SHEET

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## 1. Identification of the substance/mixture and of the company/undertaking Product identifier

### SP YELLOW 02

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

Relevant identified uses: Colorants for the Paints, lacquers and varnishes industry

#### 1.3 Details of the supplier of the safety data sheet

Company: Color Rare Ltd 105-1725 Atmec Gatineau, QC J8R 0E7  
Tel/Fax: 1-613-701-5022  
Email: [info@colorare.com](mailto:info@colorare.com)

#### 1.4 Emergency Telephone No.:

Canada Contact your local Provincial Poison Centre or 911

<http://www.capcc.ca/>

Ontario: 1-800-268-9017

Quebec: 1-800-463-5060

USA American Association of Poison Control Centers 1-800-222-1222

<http://www.aapcc.org/>

CHEMTREC

<http://www.chemtrec.com/>

**Emergency telephone number : 1-800-424-9300**

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## 2. Hazards Identification

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## Label elements

### Globally Harmonized System, EU (GHS)

The product does not require a hazard warning label in accordance with GHS criteria.

### .According to Directive 67/548/EEC or 1999/45/EC

Directive 1999/45/EC ('Preparation Directive')

The product does not require a hazard warning label in accordance with EC Directives.  
The labelling is based on our own experience.

## Classification of the substance or mixture

### According to Regulation (EC) No 1272/2008 [CLP]

No need for classification according to GHS criteria for this product

### According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:  
No particular hazards known.

## Other hazards

### According to Regulation (EC) No 1272/2008 [CLP]

The product is under certain conditions capable of dust explosion.

## 3. Composition/Information on Ingredients

### Mixtures

#### Chemical nature

bismuth vanadate pigment, Wettable powder (WP)  
C.I. Pigment Yellow 184

#### Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

trizinc bis(orthophosphate)

Content (W/W): $\geq 1\%$ - $\leq 2\%$	Aquatic Acute 1
CAS Number: 7779-90-0	Aquatic Chronic 1
EC-Number: 231-944-3	M-factor acute: 1
INDEX-Number: 030-011-00-6	M-factor chronic: 1



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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
dry powder, foam

Unsuitable extinguishing media for safety reasons:  
carbon dioxide

Additional information:

Avoid whirling up the material/product because of the danger of dust explosion.

### Special hazards arising from the substance or mixture

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

### Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

## 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing.

### Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of.

Avoid raising dust.

### Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

## 7. Handling and Storage

### Precautions for safe handling

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Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:

Avoid dust formation. Take precautionary measures against static discharges.

### **Conditions for safe storage, including any incompatibilities**

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

### **Specific end use(s)**

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## **8. Exposure Controls/Personal Protection**

### **Control parameters**

#### Components with workplace control parameters

fine dust of the bismuth vanadate pigments  
Workplace guidance level 0.1 mg/m<sup>3</sup>

### **Exposure controls**

#### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (frame goggles) (e.g. EN 166).

#### General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

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## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Form: granules  
Colour: yellow  
Odour: odourless  
Odour threshold:  
not determined  
pH value: 7 – 9  
(100g/l)  
(as suspension)  
Melting point: not determined  
Flash point: not applicable  
Evaporation rate:  
The product is a non-volatile solid.  
Flammability: does not ignite  
Lower explosion limit:  
not determined  
Upper explosion limit:  
not determined  
Ignition temperature:  
not determined  
  
Vapour pressure:  
not applicable  
Relative density:  
No data available.  
Relative vapour density (air):  
The product is a non-volatile solid.  
Solubility in water  
Dispersible  
(15°C)  
Solubility (quantitative) :  
insoluble  
Thermal decomposition:  
not determined  
Viscosity, dynamic:  
Study does not need to be conducted.  
Explosion hazard:  
not explosive

### Other information

Bulk density: 900 - 1000 kg/m<sup>3</sup>  
Hygroscopy: Non-hygroscopic.  
Grain size distribution: No data available.

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## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

The product may contain explosive fine dust or such dust may be produced by abrasion during transport or product transfer.

### Conditions to avoid

Avoid dust formation. Avoid deposition of dust. Avoid sources of ignition.

### Incompatible materials

Substances to avoid:

No substances known that should be avoided.

### Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

## 11. Toxicological Information

### Information on toxicological effects

#### Acute toxicity

Experimental/calculated data:

LD50 rat (oral): > 5,000 mg/kg (BASF-Test)

The product has not been tested. The statement has been derived from the properties of the individual components.

LC50 (by inhalation):

not determined

LD50 (dermal):

not determined

*Information on: bismuth vanadium tetraoxide*

*Experimental/calculated data:*

*LC50 rat (by inhalation): > 5.1 mg/l 4 h*

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### Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: mildly irritating (OECD Guideline 404)

The product has not been tested. The statement has been derived from the properties of the individual components.

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

The product has not been tested. The statement has been derived from the properties of the individual components.

### Respiratory/Skin sensitization

Assessment of sensitization:

No data available.

### Germ cell mutagenicity

Assessment of mutagenicity:

No data available concerning mutagenic effects.

### Carcinogenicity

Assessment of carcinogenicity:

No data available concerning carcinogenic effects.

### Reproductive toxicity

Assessment of reproduction toxicity:

No data available concerning reproduction toxicity.

### Developmental toxicity

Assessment of teratogenicity:

No data available concerning teratogenic effects.

### Specific target organ toxicity (single exposure)

Remarks: No data available.

### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

*Information on: bismuth vanadium tetraoxide*

*Assessment of repeated dose toxicity:*

*The substance may cause increase in lung mass and lung tissue changes after repeated inhalation.*

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*Information on: bismuth vanadium tetraoxide*

*Experimental/calculated data:*

*The test result applies only to the substance transferred into respirable aerosol (particles < 20 µm).*

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### Aspiration hazard



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not applicable

#### Other relevant toxicity information

*Information on: bismuth vanadium tetraoxide*  
*By inhalation the substance is only to a limited extent bioavailable, as shown in animal studies.*

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## 12. Ecological Information

### Toxicity

Toxicity to fish:

LC50 (96 h) > 100mg/l, *Brachydanio rerio*

The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic invertebrates:

LC50 (48 h), *Daphnia*

Not determined

Aquatic plants :

EC50 (72h), algae

Not determined

Microorganisms/Effect on activated sludge:

EC50 > 100 mg/l, *Pseudomonas putida*

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. The product has not been tested. The statement has been derived from the properties of the individual components.

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No data available.

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

### Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

The colourant is insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plant. The ecotoxic component(s) is/are readily biodegradable.

### Bioaccumulative potential

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Assessment bioaccumulation potential:  
The product has not been tested.

### **Mobility in soil (and other compartments if available)**

Assessment transport between environmental compartments:  
No data available.

### **Results of PBT and vPvB assessment**

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

### **Additional information**

Add. remarks environm. fate & pathway:  
Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

## **13. Disposal Considerations**

### **Waste treatment methods**

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:  
Uncontaminated packaging can be re-used.  
Packs that cannot be cleaned should be disposed of in the same manner as the contents.

## **14. Transport Information**

### **Land transport**

ADR

Not classified as a dangerous good under transport regulations

RID

Not classified as a dangerous good under transport regulations

### **Inland waterway transport**

ADN

Not classified as a dangerous good under transport regulations

### **Sea transport**

IMDG

Not classified as a dangerous good under transport regulations

### **Air transport**

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IATA/ICAO

Not classified as a dangerous good under transport regulations

## 15. Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or Mixture

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

#### Chemical Safety Assessment

Chemical Safety Assessment not yet performed due to registration timelines

## 16. Other Information

Full text of the classifications, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, if mentioned in section 2 or 3:

N	Dangerous for the environment.
Xn	Harmful.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
48/20	Harmful: Danger of serious damage to health by prolonged exposure through inhalation.
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
STOT RE	Specific target organ toxicity — repeated exposure
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H373	May cause damage to organs through prolonged or repeated exposure.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.