



## Safety Data Sheet According to Regulation (EC) 1907/2006

### 1762 Crystal Violet (C.I. 42555)

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

##### 1.1 Product identifier

Name:

Crystal Violet (C.I. 42555)

##### Synonym:

Basic Violet 3, Hexamethylpararosaniline Chloride, Methyl Violet 10 B

**CAS:** [548-62-9]

**REACH Registration Number:** A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

##### 1.2 Relevant identified uses of the substance or mixture:

For laboratory utilisation, analysis, research and fine chemistry.

##### 1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: [product.safety@panreac.com](mailto:product.safety@panreac.com)

##### 1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

#### 2. Identification of dangers

##### 2.1 Classification of the substance or the mixture.

**Classification Regulation (CE) n° 1272/2008.**

Acute Tox. 4

Carc. 2

Eye Dam. 1

Aquatic Acute 1

Aquatic Chronic 1

**Classification (67/548/CEE or 1999/45/CE).**

**Xn** Harmful  
**N** Dangerous for the environment

RE22  
R40  
R41  
R50/53

**2.2 Label elements:**

**Hazard Pictograms**



**Signal word**

Danger

**Hazard statements**

H302 Harmful if swallowed.  
H351 Suspected of causing cancer.  
H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P202 Do not handle until all safety precautions have been read and understood.  
P264 Wash...thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves, protective clothing, eye protection or face protection.  
P281 Use personal protective equipment as required.

For the full text of the R-phrases mentioned in this section, see section 16.

**2.3 Other hazards:**

No further relevant information available.

**3. Composition/information on ingredients**

Name: Crystal Violet (C.I. 42555)  
Formula:  $C_{25}H_{30}ClN_3$  M.= 407,99 CAS [548-62-9]  
EC number (EINECS): 208-953-6

**4. First aid measures**

#### **4.1 General indications:**

Never provide drink or induce vomiting in the event of loss of consciousness.

#### **4.2 Inhaling:**

Take the person out into the fresh air. In the event sickness persists, seek medical assistance.

#### **4.3 Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing. Seek immediate medical assistance.

#### **4.4 Eyes:**

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. Seek medical assistance.

#### **4.5 Swallowing:**

Drink large amounts of water. Call for medical help.

##### **· Information for doctor:**

##### **· Most important symptoms and effects, both acute and delayed:**

See Section 11 for more information.

##### **· Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

### **5. Firefighting measures**

#### **5.1 Suitable extinguishing media:**

Water. Carbon dioxide (CO<sub>2</sub>). Alcohol resistant foam. Dry powder.

#### **5.2 Unsuitable extinguishing media:**

No specific data.

#### **5.3 Special hazards arising from the substance or mixture:**

Combustible. Keep away from sources of ignition. In the event of fire, toxic fumes may form: HCl, NO<sub>x</sub>.

#### **5.4 Advice for firefighters:**

Suitable clothing and footwear. Self-contained breathing equipment.

### **6. Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures:**

Do not inhale the dust. Ensure adequate ventilation. Avoid contact with the skin, eyes or clothing.

#### **6.2 Environmental precautions:**

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

#### **6.3 Methods and material for containment and cleaning up:**

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

### **7. Handling and storage**

**7.1 Precautions for safe handling:**

Avoid breathing dust, fume, gas, mist, vapours or spray.

**7.2 Conditions for safe storage, including any incompatibilities:**

Well sealed containers. Dry atmosphere.

**Recommended storage temperature:** Room temperature.

• **Storage class:** 10-13

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

No further relevant information available.

**8. Exposure controls/personal protection****8.1 Exposure controls:**

Ensure good ventilation and renewal of the air in the premises.

**8.2 Control parameters:****8.3 Respiratory protection:**

If dust forms, use suitable respiratory protection. Filter P3.

**8.4 Hand protection:**

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

• Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **For the permanent contact gloves made of the following materials are suitable:**

**Material:** Nitrile rubber, NBR Recommended thickness of the material:  $\geq 0,11$  mm Breakthrough time:  $\geq 480$  min.

• **As protection from splashes gloves made of the following materials are suitable:**

**Material:** Nitrile rubber, NBR Recommended thickness of the material:  $\geq 0,11$  mm Breakthrough time:  $\geq 480$  min.

**8.5 Eye/face protection:**

Use safety glasses.

**8.6 Individual hygiene measures:**

Remove contaminated clothing. Wash hands before breaks and when the job is done.

**8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

**9. Physical and chemical properties**

Appearance: solid

Colour: Greenish

Granulometry: N/A  
Odour: Odourless.  
pH: 2,5 - 3,5 ((1% sol.))  
Melting point/freezing point: 194 °C  
Initial boiling point and boiling range:  
N/A  
Flash point:  
N/A  
Flammability (solid, gas):  
N/A  
Upper/lower flammability or explosive limits:  
N/A  
Vapour pressure: N/A  
Vapour density: N/A  
Relative density:

Insertar Aquí Grupo de repetición

N/A  
Solubility: 4 g/l in water ( 25 °C ) 30 g/l in alcohol ( )  
Partition coefficient: n-octanol/water:  
N/A  
Auto-ignition temperature:  
N/A  
Decomposition temperature: N/A  
Kinematic viscosity: N/A  
Dynamic viscosity:  
N/A

## **10. Stability and reactivity**

### **10.1 Conditions to avoid:**

High temperatures.

### **10.2 Incompatible materials:**

Strong acids. Oxidant agents.

### **10.3 Hazardous decomposition products:**

Nitrogen oxides. Hydrogen chloride.

### **10.4 Chemical stability:**

The product is chemically stable under standard ambient conditions (room temperature).

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 420 mg/kg

## **11.2 Dangerous effects for health:**

**Skin corrosion/irritation:** Not classified. **Serious eye damage/irritation:**

Strongly irritant in rabbits. **Respiratory or skin sensitisation:** Data not available. **Germ cell mutagenicity:** No evidence. **Carcinogenicity:** Carc. 2

**Reproductive toxicity:** Conclusions are lacking regarding evaluation of a damaging effect on the foetus. **STOT- single exposure:** Data not available.

**STOT-repeated exposure:** Data not available. **Aspiration hazard:** Data not available.

•**Most important symptoms and effects acute:** Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract., vertigo, nausea, vomiting, headaches, breathing difficulties

## **12. Environmental information**

### **12.1 Toxicity:**

#### **- EC50 test (mg/l):**

Bacteria = 10-100 mg/l

Classification: Highly toxic

Fish (*Salmo gairdneri*) = 0,7 mg/l

Classification: Extr. toxic

#### **- Receptor medium:**

Risk for the water environment High

Risk for the land environment Medium

### **12.2 Persistence and Degradability :**

Data not available.

### **12.3 Bioaccumulative potential:**

Non-bioaccumulable product.

### **12.4 Mobility in soil :**

Data not available.

### **12.5 Assessment PBT and MPMB :**

Data not available.

### **12.6 Other adverse effects:**

Do not allow it to enter soils or water channels.

## **13. Disposal considerations**

### **13.1 Waste treatment methods:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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### **13.2 Contaminated containers:**

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them. European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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## **14. Transport information**

Overland (ADR):

Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

UN 3077 Class: 9 Packaging group: III (E)

By sea (IMDG):

Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

UN 3077 Class: 9 Packaging group: III

By air (ICAI-IATA):

Technical name: Environmentally hazardous substance, solid, n.o.s

UN 3077 Class: 9 Packaging group: III

Packaging instructions: CAO 956 PAX 956

## **15. Regulatory information**

For this product a chemical safety assessment was not carried out.

The substance is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

## **16. Other information**

### **Other precautionary statements**

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P330 Rinse mouth.

P391 Collect spillage.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

### **Labelling (65/548/CEE or 1999/45/CE)**

- R-phrases(s):     **RE22** Also harmful if swallowed.  
                          **R40** Limited evidence of a carcinogenic effect.  
                          **R41** Risk of serious damage to eyes.  
                          **R50/53** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S-phrases(s):     **S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
                          **S36/37/39** Wear suitable protective clothing, gloves and eye/face protection.  
                          **S46** If swallowed, seek medical advice immediately and show this container or label.  
                          **S60** This material and its container must be disposed of as hazardous waste.  
                          **S61** Avoid release to the environment. Refer to special instructions/safety data sheets.

Version and revision date : 7 08.01.2014

Remplaced: 19.11.2012

In respect of the previous review, changes have been made to the following sections: 4, 5, 6, 7, 8, 10, 11, 12, 15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.