

Information Sheet

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

1.1. Product identifier

Product name **DETERCROM BRILLIANT GREEN MT**

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

Intended use **DYE FOR INDUSTRIAL USE.**

1.3. Details of the supplier of the safety data sheet

Name **CROMATOS SRL**
Full address **VIA G. CARDANO, 6B/C/D**
District and Country **47122 FORLÌ (FC)**
ITALY
Tel. **+39 0543 796 191**
Fax **+39 0543 796 189**

e-mail address of the competent person
responsible for the Safety Data Sheet **info@cromatos.com**

1.4. Emergency telephone number

For urgent inquiries refer to
ITALY: +39 0543 796191 - CROMATOS S.R.L. (mon - fri 08:30 - 12:30 / 14:00 - 18:00)
FRANCE: + 33 (0)1 45 42 59 59 - ORFILA (INRS)
SLOVAKIA: +421 2 5477 4166 - NTIC, www.ntic.sk
PORTUGAL: 808 250 143 - CIAV (24 h)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

Hazard classification and indication: --

2.2. Label elements

Hazard pictograms: --

Signal words: --

Hazard statements: --

Precautionary statements:

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
P262 Do not get in eyes, on skin, or on clothing.
P270 Do not eat, drink or smoke when using this product.
P280 Wear personal protective equipment / face protection.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

The product does not contain substances classified as being hazardous to human health or the environment pursuant to the provisions Regulation (EU) 1272/2008 (CLP) (and subsequent amendments and supplements) in such quantities as to require the statement.

SECTION 4. First aid measures

4.1. Description of first aid measures

Not specifically necessary. Observance of good industrial hygiene is recommended.

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

No episodes of damage to health ascribable to the product have been reported.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

SODIUM SULFATE ANHYDROUS (Reg. N°: 01-2119519226-43-XXXX)

Predicted no-effect concentration - PNEC

Normal value in fresh water	11,09	mg/l
Normal value in marine water	1,109	mg/l
Normal value for fresh water sediment	40,2	mg/kg
Normal value for marine water sediment	4,02	mg/kg
Normal value for water, intermittent release	17,66	mg/l
Normal value of STP microorganisms	800	mg/l
Normal value for the food chain (secondary poisoning)	1,54	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND	NPI	VND	NPI	VND	NPI	VND	NPI
Inhalation	NPI	NPI	12 mg/m3	12 mg/m3	NPI	NPI	20 mg/m3	20 mg/m3
Skin	NPI	NPI	NPI	NPI	NPI	NPI	NPI	NPI

OLIO DI VASELINA (REG. N° 01-2119487078-27-XXXX)

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND	NPI	VND	40 mg/kg				
Inhalation	NPI	NPI	NPI	35 mg/m3	NPI	NPI	NPI	160 mg/m3
Skin	NPI	NPI	NPI	92 mg/kg	NPI	NPI	NPI	220 mg/kg

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate not otherwise classified (PNOC respirable fraction: 3 mg/m3; PNOC inhalable fraction: 10 mg/m3). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment.

8.2. Exposure controls

Comply with the safety measures usually applied when handling chemical substances.

HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

Use a type P filtering facemask, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment (see standard EN 149).

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	powder
Colour	green

SECTION 9. Physical and chemical properties ... / >>

Odour	odourless	
Odour threshold	Not applicable	
pH	7 +/-1 (5 g/l - H ₂ O)	
Melting point / freezing point	> 200 °C	
Initial boiling point	Not applicable	
Boiling range	Not available	
Flash point	Not applicable	
Evaporation Rate	Not applicable	
Flammability of solids and gases	not flammable	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Vapour pressure	Not applicable	
Vapour density	Not applicable	
Relative density	0.4 - 0.7	Kg/l
Solubility	soluble in water	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	> 400 °C	
Decomposition temperature	> 250 °C	
Viscosity	Not applicable	
Explosive properties	Not explosive	
Oxidising properties	Not oxidant	
9.2. Other information		
Solid content	99,90 %	
VOC (Directive 2010/75/EC) :	0	
VOC (volatile carbon) :	0	

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled according to good industrial practices.

11.1. Information on toxicological effects

ANHYDROUS SODIUM SULPHATE (EC: 231-820-9/CAS 7757-82-6 - REG. N° 01-2119519226-43-XXXX):

Acute oral toxicity (LD₅₀): >2000 mg/kg, based on study performed according with OECD 423 (2010) guidelines. Value used for Chemical Safety Report.

Acute dermal toxicity (LD₅₀): test is not necessary according to Annex VIII, column II, REACH regulation.

Acute inhalatory toxicity (LC₅₀): the value used for the Chemical Safety Report, is > 2400 mg/m³, according to the study performed following OECD 436 guidelines (2010).

Irritation / Corrosion

This substance is not skin irritant as shown in the study performed in 1991 according to OECD 404 guidelines. The substance is not irritant nor corrosive for the skin.

Eye Irritation / Risk of serious eye damage

This substance does not cause eye irritation as shown in the study performed according to EU B.5. method. The substance is not eye irritant nor eye corrosive.

SECTION 11. Toxicological information ... / >>

Sensitization This substance does not cause skin sensitization, as shown in the study performed in 2010 according to OECD 406. Data on respiratory sensitization are not available.

Carcinogenic and mutagenic effects, risks to reproduction

Mutagenicity: according with sperimental studies results, thsi substance has not mutagenic effects. Mutagenicity test on mammal cells (OECD 476): NEGATIVE - AMES test/bacterial reverse mutation: NEGATIVE - chromosomal aberration test (OECD 473): Negative.

Carcinogenity: studies are not available.

Toxicity for reproduction: negative. According with results obtained from the study performed according to OECD 421, the NOAEL values are: 1000 mg/kg bw/day for fertility; 1000 mg/kg bw/day for reproduction.

Repeated dose toxicity – target organ: the NOAEL/LOAEL values used in the Chemical Safety Report are:

NOAEL Oral exposure: 1000 mg/kg bw/day according with results obtained from OECD 421 study (2010);

LOAEL Dermal exposure: 320 mg/kg bw/day according with results obtained from OECD 411 study (1977)

SODIUM SULFATE ANHYDROUS (Reg. N°: 01-2119519226-43-XXXX)

LD50 (Oral) > 2000 mg/kg (OECD 423 - 2010)

LC50 (Inhalation) > 2400 mg/m3 (OECD 436 - 2010)

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

ANHYDROUS SODIUM SULPHATE (EC: 231-820-9/CAS 7757-82-6 - REG. N° 01-2119519226-43-XXXX):

LC50 - sediment organism: 757 mg/l

Method: E729-96, duration: 96h, species: hyalella azteca (2005)

SODIUM SULFATE ANHYDROUS (Reg. N°: 01-2119519226-43-XXXX)

LC50 - for Fish 7960 mg/l/96h (method: EPA/600/4-90/027; specie: Pimephales promelas; 1997)

EC50 - for Crustacea 1766 mg/l/48h (Method: EPA600/R-94/024; specie: Daphnia magna; 2007)

EC50 - for Algae / Aquatic Plants 1900 mg/l/72h (specie: nitzschia linearis; 1968)

12.2. Persistence and degradability

ANHYDROUS SODIUM SULPHATE (EC: 231-820-9/CAS 7757-82-6 - REG. N° 01-2119519226-43-XXXX):

The substance dissociates in water and the sulphate ion is readily reduced inside of the sulfur cycle . Therefore,the sulphate ion, is easily used by fungi, bacteria and many aerobic and anaerobic species .

SODIUM SULFATE ANHYDROUS (Reg. N°: 01-2119519226-43-XXXX)

Solubility in water > 10000 mg/l

Degradability: information not available

12.3. Bioaccumulative potential

SODIO SOLFATO ANIDRO (EC: 231-820-9/CAS 7757-82-6 - REG. N° 01-2119519226-43-XXXX):

The substance is not bioaccumulative

SODIUM SULFATE ANHYDROUS (Reg. N°: 01-2119519226-43-XXXX)

Partition coefficient: n-octanol/water -4,38

BCF 0,5

12.4. Mobility in soil

SODIO SOLFATO ANIDRO (EC: 231-820-9/CAS 7757-82-6 - REG. N° 01-2119519226-43-XXXX):

the substance is not abosrbed by solil and sediments.

12.5. Results of PBT and vPvB assessment

SODIO SOLFATO ANIDRO (EC: 231-820-9/CAS 7757-82-6 - REG. N° 01-2119519226-43-XXXX):

the substance is inorganic, therefore does not follow persitence and bioaccumulation criteria.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Solid residues may be suitable for disposal in an authorised landfill site.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Information not relevant

SECTION 15. Regulatory information

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

Seveso category None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
None

Substances in Candidate List (Art. 59 REACH)

None

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA website
 - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

SECTION 16. Other information ... / >>

The following sections were modified:

01 / 02 / 08 / 09 / 11 / 12 / 14.