



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**BRUFASOL Orange / Orange 130 M**

Print date: 16.04.2012

Product code: BFSOL\_Orange\_130M

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**Hazard statements**

H350	May cause cancer.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container to der Entsorgung als gefährlichen Abfall.

**Special labelling of certain mixtures**

EUH201	Contains lead. Should not be used on surfaces liable to be chewed or sucked by children. Restricted to professional users.
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**SECTION 3: Composition/information on ingredients****Substances****Chemical characterization**

Product is inorganic.  
Warning! Contains lead.  
Contains chromium (VI). May produce an allergic reaction.

Sum formula:  $\text{Pb}(\text{Cr},\text{Mo},\text{S})\text{O}_4$

**Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
235-759-9	lead chromate molybdate sulfate red; C.I. Pigment Red 104	100 %
12656-85-8	Carc. Cat. 2, Repr. Cat. 1, Repr. Cat. 3, N R45-61-62-33-50-53	
082-010-00-5	Carc. 1B, Repr. 1A, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H350 H360Df H373 H400 H410	
01-2119491303-42-0006		

Full text of R- and H-phrases: see section 16.

**Further Information**

Lead-containing paint/Coating material

**SECTION 4: First aid measures****Description of first aid measures****General information**

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible). Change contaminated clothing.

**After inhalation**

Provide fresh air. Medical treatment necessary.

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**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 large quantities of water. Make affected person vomit if conscious. Medical treatment necessary.

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

The product itself is not combustible. Extinguishing materials should be selected according to the surrounding area.

**Advice for firefighters**

Wear a self-contained breathing apparatus and chemical resistant suit.

**Additional information**

Use a water spray jet to knock down vapours/gases/mists. Contaminated fire-fighting water must be collected separately. Do not empty into drains or the aquatic environment.

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

Provide adequate ventilation. Avoid generation of dust. Wear personal protection equipment. Wear respiratory protection when in the presence of vapour, dust, and aerosols.

**Environmental precautions**

Do not empty into drains or the aquatic environment.

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

Collect mechanically. Treat the assimilated material according to the section on waste disposal.

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

In case of open handling equipment with built-in suction must be used. Do not breathe dust.

**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. Keep locked up. Store in a place accessible only to authorized persons.

**Further information on storage conditions**

Store in a cool dry place.

**SECTION 8: Exposure controls/personal protection****Control parameters**

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**Exposure limits (EH40)**

CAS No	Chemical name	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
-	Chromium (VI) compounds (as Cr)	-	0.05		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

**Biological Monitoring Guidance Values (EH40)**

CAS No	Chemical name	Parameter	Value	Test material	Sampling time
	Chromium VI	chromium	10 µmol/mol	urine	Post shift

**Additional advice on limit values**

DMEL inhalation (long-term / systemic effects; professionals): 6 µg/m<sup>3</sup>  
 DMEL (consumers): –  
 PNEC aqua (freshwater): 0,1 mg/l  
 PNEC aqua (marine water): 0,01 mg/l  
 PNEC aqua (intermittent releases): 1 mg/l  
 PNEC sediment (freshwater): Lead: 5130 mg/kg ; Chromate: 148 mg/kg  
 PNEC sediment (marine water): Lead: 513 mg/kg ; Chromate: 14.8 mg/kg  
 PNEC soil: Lead: 1020 mg/kg ; Chromate: 29.5 mg/kg  
 PNEC sewage treatment plant: 1000 mg/l  
 PNEC oral: –

**Exposure controls****Occupational exposure 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.

**Respiratory protection**

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

**Hand protection**

Type of chemical protective gloves to choose depends on the concentration and quantity of dangerous substances as well as on work place specifications. When handling chemical substances, chemical protective gloves must be worn with CE label including a four digit code.

Suitable material:

NBR (Nitrile rubber). CR (polychloroprenes, Chloroprene rubber). PVC (Polyvinyl chloride).

Wash hands before breaks and at the end of work.

**Eye protection**

Tightly sealed safety glasses.

**Skin protection**

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

**Environmental exposure controls**

see attached exposure scenario.

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

Physical state: solid: Powder  
 Colour: orange / red  
 Odour: odourless

**Test method**

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pH-Value (at 20 °C): 5 - 7

**Changes in the physical state**

Melting point: &gt;800 °C

Flash point: Non-flammable.

Density: 5,0 - 6,0 g/cm<sup>3</sup>

Water solubility: practically insoluble

**Other information**

Solid content: 100 %

Further information: refer to Technical Data Sheet.

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

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

**Incompatible materials**

Reducing agents, strong.

**Further information**

Material, rich in oxygen, oxidizing.

**SECTION 11: Toxicological information****Information on toxicological effects****Acute toxicity**

Toxic.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
12656-85-8	lead chromate molybdate sulfate red; C.I. Pigment Red 104				
	oral	LD50 mg/kg	>10000	Rat (Sprague-Dawley)	REACH-CSR

**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

**Severe effects after repeated or prolonged exposure**

Danger of serious damage to health by prolonged exposure.

**Carcinogenic/mutagenic/toxic effects for reproduction**

May cause cancer. May impair fertility. May damage the unborn child.

**Additional information on tests**

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

**SECTION 12: Ecological information****Toxicity**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	h	Species	Source
12656-85-8	lead chromate molybdate sulfate red; C.I. Pigment Red 104					
	Acute fish toxicity	LC50	ca. 2500 mg/l	96	Leuciscus idus	REACH-CSR
	Acute algae toxicity	ErC50	>100 mg/l	72	Desmodesmus subspicatus (Scenedesmus subspicatus)	REACH-CSR
	Acute crustacea toxicity	EC50	>100 mg/l	48	Daphnia magna	REACH-CSR

**Further information**

Do not empty into drains or the aquatic environment. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).


**SECTION 13: Disposal considerations****Waste treatment methods****Advice on disposal**

Do not empty into drains or the aquatic environment. Waste disposal according to official state regulations.

**Contaminated packaging**

Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

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

<b>UN number:</b>	UN3077
<b>UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (lead chromate molybdate sulfate red; C.I. Pigment Red 104)
<b>Transport hazard class(es):</b>	9
<b>Packing group:</b>	III
Hazard label:	9
	
Classification code:	M7
Special Provisions:	274 335 601
Limited quantity:	5 kg
Transport category:	3
Hazard No:	90
Tunnel restriction code:	E

**Other applicable information (land transport)**

E1

**Inland waterways transport**

<b>UN number:</b>	UN3077
<b>UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (lead chromate molybdate sulfate red; C.I. Pigment Red 104)
<b>Transport hazard class(es):</b>	9
<b>Packing group:</b>	III
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Classification code: M7  
 Special Provisions: 274 335 601  
 Limited quantity: 5 kg

### Other applicable information (inland waterways transport)

E1

### Marine transport

**UN number:** UN3077  
**UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 (lead chromate molybdate sulfate red; C.I. Pigment Red 104)  
**Transport hazard class(es):** 9  
**Packing group:** III  
 Hazard label: 9



Special Provisions: 274, 335  
 Limited quantity: 5 kg  
 EmS: F-A, S-F

### Other applicable information (marine transport)

E1

### Air transport

**UN/ID number:** UN3077  
**UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 (lead chromate molybdate sulfate red; C.I. Pigment Red 104)  
**Transport hazard class(es):** 9  
**Packing group:** III  
 Hazard label: 9



Special Provisions: A97 A158 A179  
 Limited quantity Passenger: 30 kg G  
 IATA-packing instructions - Passenger: 956  
 IATA-max. quantity - Passenger: 400 kg  
 IATA-packing instructions - Cargo: 956  
 IATA-max. quantity - Cargo: 400 kg

### Other applicable information (air transport)

E1  
 : Y956

### Environmental hazards

Dangerous for the environment: yes



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**SECTION 15: Regulatory information****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

**Chemical Safety Assessment**

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

**SECTION 16: Other information****Full text of R-phrases referred to under sections 2 and 3**

- |       |  |
|-------|--|
| 33    | Danger of cumulative effects.  |
| 45    | May cause cancer.  |
| 50    | Very toxic to aquatic organisms.   |
| 50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 53    | May cause long-term adverse effects in the aquatic environment.                                  |
| 61    | May cause harm to the unborn child.  |
| 62    | Possible risk of impaired fertility.   |

**Full text of H-Statements referred to under sections 2 and 3**

- |        |  |
|--------|--|
| H350   | May cause cancer.  |
| H360Df | May damage the unborn child. Suspected of damaging fertility.      |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| H400   | Very toxic to aquatic life.  |
| H410   | Very toxic to aquatic life with long lasting effects.              |

**Further Information**

Chemical Safety Report, Chapter 9: EXPOSURE ASSESSMENT