

1. Substance/ preparation and company name

Product name: BRUFASOL Yellow 4711 M

Company: Bruchsaler Farbenfabrik GmbH & Co. KG,
Talstr. 37, D-76646 Bruchsal

Tel.: +49 7251 / 97 54 - 0

Emergency information:

Tel.: +49 7251 / 97 54 - 41 or 47

Fax: +49 7251 / 1 59 53

2. Composition/ information on ingredients

Chemical nature

Intercrystallised compound of the system lead chromate/-sulphate
C.I. Pigment Yellow 34

Hazardous ingredients

CAS-No. 1344-37-2

EEC-No. 82-009-00-X Leadsulfochromateyellow

Content: 100 % weight

Hazard symbol within EEC: T, N

R-phrases: 61-62-33-40-50/53-68

3. Possible hazards

Critical hazards to man and the environment:

R61 - May cause harm to the unborn child.

R62 - Possible risk of impaired fertility

R33 - Danger of cumulative effects

R40 - Limited evidence of a carcinogenic effect

R50/53 - Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment

R68 - Possible risks of irreversible effects

4. First aid measures

If difficulties occur after dust has been inhaled: fresh air, summon physician.

On skin contact: Wash with soap and water

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

Note to physician: the presence of Pb in the body can be detected by determining the amount of this substance in the blood and/or urine.

4. Fire fighting measures

Suitable extinguishing media:

water spray, dry extinguishing media, foam, carbon dioxide (CO₂)

Specific hazards due to the substance, products of combustion or corresponding gases:
lead oxide can be given off in a fire situation.

Special protective equipment:

In case of fire, wear a self contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with local regulations.

6. Accidental release measures

Personal precautions: Avoid dust formation.
Environmental precautions: Do not let product enter drains
Methods for cleaning up: Pick up with suitable appliance and dispose of.

7. Handling and storage

Handling

Processing machines must be fitted with local exhaust ventilation. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion: The product is incombustible. It may reduce ignition temperature of combustible substances.

Storage

Keep container tightly sealed.

8. Exposure controls and personal protection

Additional information on the lay-out of technical plant (see 7)

Components with workplace control parameters

Lead chromate CAS-No. 7758-97-6 MAK: 0,1 mg/m³ (calculated as Pb)

TRK = 0,05 mg/m³ (calculated as CrO₃)

TLV = 0,012 mg/m³ (calculated as Cr)

The relevant BAT value should be noted (TRGS 903, Germany)

Personal protective equipment

Respiratory protection: If breathable dust is formed Filter P2 (for solid and liquid particles) (DIN 3181).

Hand protection: protective gloves

Eye protection: goggles

General safety and hygiene measures:

No eating, drinking, smoking or snuff-taking at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and chemical properties

Form: powder

Colour: yellow

Odour: none

Change in physical state

Melting point / melting range: > 800 ° C (DIN)

Flash point: non-flammable

Fire promoting properties: the product is incombustible. It may reduce ignition temperature of combustible substances due to its oxidizing properties.

Vapour pressure: not applicable

Density: (20 ° C) 5 - 6 g/cm³

Solubility in water: practically insoluble

pH value: (at 50 g/l, 20 ° C) 5 - 7

10. Stability and reactivity

Hazardous decomposition products:
No decomposition if stored and applied as directed.

11. Toxicological information

Acute toxicity

LD50/oral/rat: > 5000 mg/kg
Primary skin irritation/rabbit: non-irritant
Primary mucous membrane irritation / rabbit's eyes: non-irritant

reproduction toxicity

lead compounds: teratogenic effect, possible risk of impaired fertility

Additional information

Lead chromate pigments are difficult soluble lead compounds. In hydrochloric acid, in stomach acid concentrations, lead is dissolved-out and this can accumulate in the organism. Long-term intake of high concentrations of lead compounds can also affect biosynthesis of haemoglobin.

12. Ecological information

Elimination information

Not readily water-soluble, inorganic product. May be virtually separated mechanically in purification plant. Heavy metals can be dissolved by liquids containing acids or alkalis. Must be eliminated from water by chemical flocculation.

Behaviour and environmental fate

The product includes the following heavy metal(s) Pb, Cr. Prevent release into the environment. Special pretreatment required.

Ecotoxic effects

Lead chromate compounds are difficult soluble compounds.
Toxicity to fish (acute)
NOEC (maximum tested concentration without any observed effect)/
Leuciscus idus: 10000 mg/l/96 h
LC50/Leuciscus idus: 10000 mg/l/96h

Toxicity to daphnids (acute):
Daphnia magna, EC50 (48h): > 100 mg/l

Toxicity to algae:
Scenedesmus subspicatus, growth rate EC 50 (72h): > 100 mg/l

13. Disposal considerations

Product:
Must not be disposed of together with household waste. Do not let enter into drains.
Must be disposed of by special means in accordance with local requirements.
Contact producer for recycling.
- Waste code

The co-ordination of the waste codes must be realised branch and process specific according to the European Waste Catalogue regulation.

Contaminated packaging:

Uncleaned empties should be disposed of like its content.

14. Transport information

Land transport

ADR/RID/GGVS/GGVE

Class: 9

PG: III

Warning panel

Hazard no.:

Substance no.:

UN-No. 3077

Description of the goods: Environmentally hazardous substance, solid, N.O.S., (Lead chromate

Remarks:

Inland waterway transport

ADN/ADNR

Class: 9

UN No. 3077 PG: III

Description of the goods: Environmentally hazardous substance, solid, N.O.S., (Lead chromate

Remarks:

Sea transport

IMDG/GGVSee

Class: 9

UN-No.: 3077 PG: III

EMS:

Marine pollutant:

Proper technical name: UN 3077 Lead Environmentally hazardous substance, solid, N.O.S., (Lead chromate

Remarks:

Air transport

ICAO/IATA

Class: 9

UN/ID No. 3077 PG III

Proper technical name: UN 3077 Environmentally hazardous substance, solid, N.O.S., (Lead chromate

Remarks

15. Regulatory information

Labelling according to EEC Directives

T – Toxic

N – Dangerous for the environment

contains: lead chromate

INDEX No. 082-004-00-2

EINECS No. 231-846-0

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S53 - Avoid exposure - obtain special instructions before use

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S60 – This material and its container must be disposed of as hazardous waste.

S61 – Avoid release to the environment. Refer special instructions / See safety data sheet.

Lead chromate:

EC category R 1 (reproduction-toxic: teratogenic)

EC category R 3 (reproduction-toxic: substances which cause concern for human fertility)

EC category C 3 (category 3 corresponds to „substances which cause concern for man owing to possible carcinogenic effects but in respect of which the information available is not sufficient to make a satisfactory assessment“.)

National legislation / regulations

Water hazard class: WGK (2) (Germany) (KWBS classification)

VwVwS (Germany) of 17.05.1999, annex 2

Pregnancy risk classification B

TRGS 505, TRGS 900 (Germany): lead

16. Other information

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.