



Colors : brown; candy brown; dark brown; salak brown; walnut brown; mahogany and all brown colors

1. Substance/preparation and company identification

Product

Chemical family : metal complex dye combine

Synonyms:

C.I. Acid Yellow 204 preparation

C.I. Acid Red 357 preparation

C.I. Acid black 194 preparation

Company

Biochemicals industries.CV

Jl. Sidikan 94 yogyakarta – Indonesia

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300

Bio hotline : +62-274.388301

Email: bio@bio-industries.com

2. Hazardous ingredients

ingredients	CAS Number	Content (W/W)
Butyl di glycol	112-34-5	0,5 - 1,5%
C.I. Acid Yellow 204	73324-01-3	0 – 0,2 %
C.I. Acid Red 357	84777-17-3	0 – 0,2 %
C.I. Acid black 194	57693-14-8	0 – 0,2 %
Water		90-98 %

3. Hazard identification

Emergency overview

IRRITANT. Irritating to eyes.

Potential health effects**Acute toxicity:**

Virtually nontoxic after a single ingestion.

Irritation:

Irritating to eyes. Not irritating to the skin.

4. First-aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air. Assist in breathing if necessary. Consult a physician.

If on skin:

Wash thoroughly with soap and water.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Rinse mouth thoroughly with water, seek medical attention.

**Note to physician**

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-fighting measures

Flash point : > 100 °C (DIN 51758)
Auto ignition : > 200 °C (DIN 51794)

Information on: Butyl diglycol

Lower explosion limit: 0.7 %(V)
Upper explosion limit: 5.9 %(V)

Suitable extinguishing media:

water spray, dry extinguishing media, foam

Hazards during fire-fighting:

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

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures**Personal precautions:**

Use personal protective clothing.

Environmental precautions:

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

Cleanup:

Spills should be contained, solidified, and placed in suitable containers for disposal.
For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations. For large amounts: Pump off product.

7. Handling and storage**Handling****General advice:**

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

No special precautions necessary.

Storage**General advice:**

Keep container tightly closed and in a cool place.

Temperature tolerance

Protect from temperatures below: 0 °C
Protect from temperatures above: 60 °C

**8. Exposure controls and personal protection****Personal protective equipment****Respiratory protection:**

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles).

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Due to the colouring properties of the product closed work clothes should be used, to avoid stains during manipulation. Wash soiled clothing immediately.

9. Physical and chemical properties

Form	: liquid
Odor	: specified
Odor threshold	: No data available.
Color	: specified
pH value	: approx. 4 - 5 (100 g/l 20°C)
solidification temperature	: < -5 °C (1,013 hPa)
Boiling point	: approx. 100 °C
Vapor pressure	: 119 mbar (50 °C) 22 mbar (20 °C)
Density	: approx. 1.14 g/cm ³ (20 °C)
Solubility in water	: (20 °C) completely soluble
Miscibility with water	: miscible in all proportions

10. Stability and reactivity**Hazardous reactions:**

No hazardous reactions when stored and handled according to instructions.

Decomposition products:

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

11. Toxicological information**Acute toxicity****Oral:**

LD50/rat: > 5,000 mg/kg

Skin irritation:

rabbit: non-irritant



method : (Draize test)

eye irritation :

rabbit: Risk of serious damage to eyes..

Methode : (OECD Guideline 404)

12. Ecological information**Environmental fate and transport****Biodegradation:**

Test method: Static test

Method of analysis: colour reduction

Degree of elimination: 30 - 40 %

Bioaccumulation:

low sewage pollution as a result of high exhaustion rate

Chemical oxygen demand (COD): 735 mg/g

Biochemical oxygen demand (BOD): Incubation period 5 d: 10 mg/g

Environmental toxicity**Acute and prolonged toxicity to fish :**

OECD Guideline 203 Guppy/LC50 (96 h): 1 - 10 mg/l

Acute toxicity to aquatic invertebrates:

Daphnia magna/EC50: 10 - 100 mg/l

Toxicity to microorganisms : DEV-L2 EC50: > 1,000 mg/l

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Other ecotoxicological advice:

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components. Do not release untreated into natural waters.

Other adverse effects

The product contains: 0,06 (W/W) % chromium (III)

The heavy metals mentioned are present in complex bound form as substantial constituent of the colourant.

13. Disposal considerations**Waste disposal of substance:**

Must be dumped or incinerated in accordance with local regulations.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport information**Land transport**

TDG Not classified as a dangerous good under transport regulations

Sea transport



IMDG: Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO: Not classified as a dangerous good under transport regulations

15. Regulatory information**Chemicals** **CAS Number**

Butyl di glycol	112-34-5
C.I. Acid Yellow 204	73324-01-3
C.I. Acid Red 357	84777-17-3
C.I. Acid black 194	57693-14-8

Is found on the following regulatory lists

- Canada Domestic Substances List (DSL)
- Canada Toxicological Index Service - Workplace Hazardous Materials Information System (WHMIS)
- International Fragrance Association (IFRA) Survey: Transparency List
- OECD Representative List of High Production Volume (HPV) Chemicals
- US EPA High Production Volume Program Chemical List
- US FDA CFSAN Color Additive Status List 1
- US FDA Listing of Color Additives Subject to Certification – Foods
- US Food Additive Data base
- US Toxic Substances Control Act (TSCA) –Inventory

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other information

This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside the company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the users obligation to evaluate and use this product safely and to comply with all applicable national/international laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied. The data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.