

**Safety Data Sheet**  
according to Regulation (EG) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830

Article No.: F27.0003 Flexonal CBYELLOW  
Print date: 21.08.2020 Revision date: 07.04.2020  
Version: 1.8 Issue date: 27.01.2014

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**SECTION 1: Identification of the substance/mixture and of the Company undertaking**

**1.1 Product identifiers**

Trade name: Flexonal CBYELLOW  
Product code: F27.0003

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

Use of the Substance/Mixture: Colouring agent

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**

Bachmann Kunststoff Technologien GmbH

Rudolf-Diesel-Str. 2

D-63322 Rödermark

**Telefon: +49 6074 94394**

**Telefax: +49 6074 98544**

**Informing Department:**

Information Contact:

Mr. Julien

E-mail (competent person):

[service@bktgermany.com](mailto:service@bktgermany.com)

**1.4 Emergency Telephone Number:**

Telephone: +49 6074 94394

Only available during office hours.

Poison Control Center Mainz - 24 h –

Emergency Call:

+49 6131 19240

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

**Prevention:**

P273 Avoid release to the environment

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.1 Mixtures

Chemical nature:

Color reagent

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Aromatic amino polyol-Yellow	Not Assigned	Aquatic Chronic 3; H412	>= 70 - < 90
2,2'-oxybisethanol	111-46-6 203-872-2 603-140-00-6 01-2119457857-21-0078	Acute Tox. 4; H302	>= 1 - < 10

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General advice:

Do not leave the victim unattended.

If inhaled:

If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of eye contact:

Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.

If swallowed:

Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

None known.

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

No data available

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

No data available

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting:

Do not allow run-off from firefighting to enter drains or water courses

#### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Further information:

Collect contaminated fire extinguishing water separately.  
This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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**SECTION 6: Accidental release measures**

- 6.1 **Personal precautions, protective equipment and emergency procedures**  
 No data available
- 6.2 **Environmental precautions**  
 Environmental precautions: Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities.
- 6.3 **Methods and material for containment and cleaning up**  
 Methods for cleaning up: Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.
- 6.4 **Reference to other sections**  
 No data available

**SECTION 7: Handling and storage**

- 7.1 **Precautions for safety handling**  
 Advice on safe handling: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.  
  
 Advice on protection against fire and explosion: Normal measures for preventive fire protection.  
 Hygiene measures: General industrial hygiene practice.
- 7.2 **Conditions for safety storage, including any incompatibilities**  
 Requirements for storage areas and containers: Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.  
  
 Advice on common storage: No materials to be especially mentioned.  
  
 Storage class (TRGS 510): 12, Non Combustible Liquids  
  
 Further information on storage stability: No decomposition if stored and applied as directed.
- 7.3 **Specific end use(s)**  
 No data available

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

8.1 **Control parameters**

**Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2,2' -oxybisethanol	111-46-6	AGW (Vapour and aerosols)	10 ppm 44 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	4;(II)			
Further information	When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

8.2 **Exposure controls**

**Personal protective equipment**

- Eye protection: Safety glasses
- Skin and body protection: Protective suit
- Respiratory protection: No personal respiratory protective equipment normally required.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:	liquid
Colour:	dark yellow
Odour:	No data available
Odour Treshold:	No data available
pH:	No data available
Melting point/freezing point:	< 0 °C
Boiling point/boiling range:	> 200 °C
Flash point:	284 °C Method: Cleveland open cup
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper explosion limit / Upper flammability limit:	No data available
Lower explosion limit / Lower flammability limit:	No data available
Vapour pressure:	No data available
Relative vapour density:	1
Relative density:	1,1
Water solubility:	partly miscible
Solubility in other solvents:	No data available
Partition coefficient: noctanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, dynamic:	No data available
Viscosity, kinematic:	No data available
Flow time:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

### 9.2 Other information

Flammability (liquids):	Will not burn
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions: Stable under recommended storage conditions.  
No hazards to be specially mentioned.

### 10.4 Conditions of avoid

Conditions to avoid: No data available

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

No data available

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity: LD50 (Rat): > 5.000 mg/kg

#### Components:

##### **Aromatic amino polyol-Yellow:**

Acute oral toxicity: LD50 Oral (Rat): > 5.000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: No adverse effect has been observed in acute toxicity tests.

##### **2,2' -oxybisethanol:**

Acute oral toxicity: LD0 (Humans): 1 g/kg

#### **Skin corrosion/irritation**

Not classified based on available information.

#### **Serious eye damage/eye irritation**

Not classified based on available information.

#### **Respiratory or skin sensitisation**

##### **Skin sensitisation**

Not classified based on available information.

##### **Respiratory sensitisation**

Not classified based on available information.

#### **Germ cell mutagenicity**

Not classified based on available information.

#### Product:

Genotoxicity in vitro: Test Type: Ames test  
Result: negative

#### Components:

##### **Aromatic amino polyol-Yellow:**

Genotoxicity in vitro: Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

Not classified based on available information.

#### **STOT - repeated exposure**

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

#### **Experience with human exposure**

#### Components:

##### **2,2' -oxybisethanol:**

Ingestion: Target Organs: Kidney  
Symptoms: Bloody urine

#### **Further information**

#### Product:

Remarks: No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

#### Components:

#### **Aromatic amino polyol-Yellow:**

Biodegradability:

Biodegradation: 4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C  
GLP: yes

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

#### Product:

Additional ecological information:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product:

The product should not be allowed to enter drains, water courses or the soil.

## SECTION 14 Transport information

### 14.1 UN-Number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards:

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

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**SECTION 15: Regulatory information**

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59):	Not applicable
REACH - List of substances subject to authorisation (Annex XIV):	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast):	Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals:	Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII):	Conditions of restriction for the following entries should be considered: Number on list 3
Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances:	Not applicable
Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances:	Not applicable
Water contaminating class (Germany):	WGK 3 highly hazardous to water Classification according to AwSV, Annex 1 (5.2)
TA Luft List (Germany):	Total dust: Not applicable Inorganic substances in powdered form: Not applicable Inorganic substances in vapour or gaseous form: Not applicable Organic Substances: Not applicable Carcinogenic substances: Not applicable Mutagenic: Not applicable Toxic to reproduction: Not applicable

**15.2 Chemical safety assessment:**

Additional information is available by request.



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**SECTION 16: Other information**

**Full text of H-Statements**

H302 Harmful if swallowed.  
H412 Harmful to aquatic life with long lasting effects.

**Full text of other abbreviations**

Acute Tox. Acute toxicity  
Aquatic Chronic Long-term (chronic) aquatic hazard  
DE TRGS 900 Germany. TRGS 900 - Occupational exposure limit values.  
DE TRGS 900 / AGW Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - SelfAccelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

Please Note: As each customer's use of our product may be different, information we provide, including without limitation, any regulatory information, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at [www.flexonal.de](http://www.flexonal.de) (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.