

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

Article No.: F27.0007 Flexonal CBRED
Print date: 05.02.2021 Revision date: 05.02.2021
Version: 1.10 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 CBRED
Product code: F27.0007

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

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)

Eye irritation, Category 2

H319: Causes serious eye irritation.

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 pictograms:



Signal Word:

Warning

Hazard statements:

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

Prevention:

P264 Wash skin thoroughly after handling.

P273 Avoid release to the environment

P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

Disposal:

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

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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.

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-Red	Not Assigned	Eye Irrit. 2; H319 Aquatic Chronic 3; H412	>= 30 - < 50
2,2' -oxybisethanol	111-46-6 203-872-2 603-140-00-6 01-2119457857-21-0078	Acute Tox. 4; H302	>= 10 - < 20
2-Amino-4-Methylbenzothiazole	1477-42-5 216-028-3 01-2120768141-59- 0000	Acute Tox. 3; H301 Aquatic Chronic 2; H411	>= 1 - < 2,5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:

Move out of dangerous area.
Show this material safety data sheet to the doctor in attendance.
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:

Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist

If swallowed:

Induce vomiting immediately and call a physician.
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

Risks:

Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Unsuitable extinguishing media

High volume water jet

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:

Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions:

Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
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:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safety handling

Advice on safe handling:

Do not breathe vapors/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Hygiene measures:

When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.

7.2 Conditions for safety storage, including any incompatibilities

Requirements for storage areas and containers:

Keep container tightly closed in a dry and well-ventilated place. 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):

10, Combustible liquids

Further information on storage stability:

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

No data available

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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 ³	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:

Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection
Remarks:

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection:

Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	liquid
Colour:	dark red
Odour:	sweet
Odour Treshold:	No data available
pH:	No data available
Melting point/freezing point:	< 0 °C
Boiling point/boiling range:	> 100 °C
Flash point:	240 °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:	No data available
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

No data available

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: No hazards to be specially mentioned.

10.4 Conditions of avoid

Conditions to avoid: No data available

10.5 Incompatible materials

Materials to avoid: Not applicable

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:

Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

Aromatic amino polyol-Red:

Acute oral toxicity:

LD50 (Rat): 4.146 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity

2,2' -oxybisethanol:

Acute oral toxicity:

LD0 (Humans): 1 g/kg

2-Amino-4-Methylbenzothiazole:

Acute oral toxicity:

LD50 Oral (Rat, female): > 50 - < 300 mg/kg
Method: OECD Test Guideline 420

Skin corrosion/irritation

Not classified based on available information.

Product:

Species:

Rabbit

Assessment:

No skin irritation

Result:

No skin irritation

Remarks:

Aromatic amino polyol-Red

Remarks:

May cause skin irritation in susceptible persons.

Components:

Aromatic amino polyol-Red:

Species:

Rabbit

Assessment:

No skin irritation

Result:

No skin irritation

2-Amino-4-Methylbenzothiazole:

Species:

reconstructed human epidermis (RhE)

Method:

OECD Test Guideline 439

Result:

No skin irritation

Species:

reconstructed human epidermis (RhE)

Method:

OECD Test Guideline 431

Result:

No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Species:

Rabbit

Assessment:

Irritating to eyes.

Result:

irritating

Remarks:

Aromatic amino polyol-Red

Remarks:

May cause irreversible eye damage.

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Components:

Aromatic amino polyol-Red

Species: Rabbit
Assessment: Irritating to eyes.
Result: Eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Test Type: Maximization Test
Assessment: Does not cause skin sensitization.
Result: Does not cause skin sensitization.

Components:

Aromatic amino polyol-Red:

Test Type: Maximization Test
Assessment: Does not cause skin sensitization.

2-Amino-4-Methylbenzothiazole:

Test Type:
Method: Local lymph node assay (LLNA)
Result: OECD Test Guideline 429
Not a skin sensitizer.

Germ cell mutagenicity

Not classified based on available information.

Product:

Genotoxicity in vitro: Test Type: Chromosome aberration test in vitro
Result: Positive results were obtained in some in vitro tests.
Remarks: Aromatic amino polyol-Red

Test Type: Ames test
Result: negative
Remarks: Aromatic amino polyol-Red

Genotoxicity in vivo: Test Type: In vivo micronucleus test
Result: negative
Remarks: Aromatic amino polyol-Red

Components:

Aromatic amino polyol-Red:

Genotoxicity in vitro: Test Type: Chromosome aberration test in vitro
Result: Positive results were obtained in some in vitro tests.
Test Type: Ames test Result: negative

Genotoxicity in vivo: Test Type: In vivo micronucleus test
Result: negative

2-Amino-4-Methylbenzothiazole:

Genotoxicity in vitro: Test Type: Ames test
Test system: Salmonella typhimurium
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Result: This material is considered to be non-mutagenic in this micronucleus test

Carcinogenicity

Not classified based on available information.

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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.

Repeated dose toxicity

Product:

Species:	Rat
NOAEL:	15 mg/kg
Application Route:	Oral
Exposure time:	28 h
Remarks:	Subacute toxicity Aromatic amino polyol-Red

Components:

Aromatic amino polyol-Red:

Species:	Rat
NOAEL:	15 mg/kg
Application Route:	Oral
Exposure time:	28 days

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

2,2' -oxybisethanol:

Ingestion:	Target Organs: Kidney Symptoms: Bloody urine
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Further information

Product:

Remarks:	No data available
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SECTION 12: Ecological information

12.1 Toxicity

Components:

2-Amino-4-Methylbenzothiazole:

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia magna (Water flea)): 4,2 mg/l
Exposure time: 48 h
Test Type: Immobilization
Method: Regulation (EC) No. 440/2008, Annex, C.2

12.2 Persistence and degradability

Components:

2-Amino-4-Methylbenzothiazole:

Biodegradability:

Result: rapidly biodegradable
Biodegradation: 22 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

Components:

Aromatic amino polyol-Red:

Bioaccumulation:

Species: Cyprinus carpio (Carp)
Exposure time: 96 d
Concentration: 10,2 mg/l

2-Amino-4-Methylbenzothiazole:

Partition coefficient: noctanol/water:

Pow: 9,57 - 44,0
Method: Regulation (EC) No. 440/2008, Annex, A.8

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.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product: The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging: Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

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
Volatile organic compounds:	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0,1 %

15.2 Chemical safety assessment:

Additional information is available by request.

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SECTION 16: Other information

Full text of H-Statements

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
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
Eye Irrit.	Eye irritation
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 (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.