



BE SURE. BUILD SURE.

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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 12.01.2022

Version number 12





Revision: 12.01.2022

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name** Colusal VL - Komponente A
- **Relevant identified uses of the substance or mixture and uses advised against** *No further relevant information available.*
- **Application of the substance / the mixture** *Anticorrosion additive*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** *MC-Bauchemie Müller GmbH & Co. KG
Am Kruppwald 1-8
D-46238 Bottrop
Tel.: +49(0)2041-101-0
Fax.: +49(0)2041-101-400
E-Mail: info@mc-bauchemie.de*

*MC-Bauchemie AG
Hagackerstr. 10
CH-8953 Dietikon
Tel.: +44-7400510
Fax : +44-7400533*
- **Informing department:** *msds@mc-bauchemie.de*
- **Emergency telephone number:** *Tel.: +49 / (0)700 24112112 (MCR)
Tel.: +48612864565*

2 Hazards identification

- **Classification of the substance or mixture**
 - Acute Tox. 5 H333 May be harmful if inhaled.*
 - Skin Irrit. 2 H315 Causes skin irritation.*
 - Eye Dam. 1 H318 Causes serious eye damage.*
 - Skin Sens. 1 H317 May cause an allergic skin reaction.*
 - Carc. 2 H351 Suspected of causing cancer. Route of exposure: Inhalation.*
 - Aquatic Acute 2 H401 Toxic to aquatic life.*
 - Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.*
- **Label elements**
- **GHS label elements** *The product is classified and labelled according to the Globally Harmonised System (GHS).*
- **Hazard pictograms**
 -  *GHS05*
 -  *GHS07*
 -  *GHS08*
 -  *GHS09*
- **Signal word** *Danger*

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- **Hazard-determining components of labelling:** Polymer Epoxidharz-Addukt
titanium dioxide
m-phenylenebis(methylamine)
Aminpolymer
3-(trimethoxysilyl)propylamine
- **Hazard statements** May be harmful if inhaled.
Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction.
Suspected of causing cancer. Route of exposure: Inhalation.
Toxic to aquatic life with long lasting effects.
- **Precautionary statements** Avoid breathing dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture consisting of the following components.

· **Dangerous components:**

260549-92-6	Polymer Epoxidharz-Addukt Eye Dam. 1, H318	≥3-<25%
13463-67-7	titanium dioxide Carc. 2, H351; Acute Tox. 5, H333	≥0.1-<25%
1314-13-2	zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥2.5-<10%
7779-90-0	trizinc bis(orthophosphate) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥2.5-<10%
180583-06-6	Aminpolymer Aquatic Chronic 2, H411; Skin Sens. 1, H317; Aquatic Acute 2, H401	≥2.5-<5%
1477-55-0	m-phenylenebis(methylamine) Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	≥2.5-<3%

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		(Contd. of page 2)
60580-61-2	Zink-5-nitroisophthalat Aquatic Acute 3, H402; Aquatic Chronic 3, H412	<2.5%
1332-37-2	Iron oxide	<1.5%
13822-56-5	3-(trimethoxysilyl)propylamine Skin Corr. 1C, H314; Acute Tox. 4, H302; Skin Sens. 1A, H317; Flam. Liq. 4, H227	≥1-<1.5%
112-57-2	3,6,9-triazaundecamethylenediamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	≥0.1-<0.25%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**
- **After inhalation** Supply fresh air.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water. Call a doctor immediately.
- **After swallowing** Rinse out mouth and then drink plenty of water. Seek medical treatment.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Dilute with much water.
- **Methods and material for containment and cleaning up:** Collect mechanically.

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- **Reference to other sections**
 - Clean the accident area carefully; suitable cleaners are: warm water and cleaning agent
 - See Section 7 for information on safe handling
 - See Section 8 for information on personal protection equipment.
 - See Section 13 for information on disposal.

7 Handling and storage

- **Handling**
- **Precautions for safe handling** Store in cool, dry place in tightly closed containers. Open and handle container with care.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

Components with critical values that require monitoring at the workplace:

1477-55-0 m-phenylenebis(methylamine)

REL (USA) Ceiling limit: 0.1 mg/m³
Skin

TLV (USA) Ceiling limit: 0.018 ppm
Skin

1332-37-2 Iron oxide

REL (USA) Long-term value: 1 mg/m³
as Fe

TLV (USA) Long-term value: 1 mg/m³
as Fe

112-57-2 3,6,9-triazaundecamethylenediamine

WEEL (USA) Long-term value: 5 mg/m³
Skin; DSEN

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· DNELs

1477-55-0 m-phenylenebis(methylamine)

Dermal	DNEL	0.33 mg/kg bw/day (Workers)
Inhalative	DNEL	1.2 mg/m ³ (Workers)

112-57-2 3,6,9-triazaundecamethylenediamine

Oral	DNEL	0.53 mg/kg bw/Tag (ArL)
Dermal	DNEL	0.74 mg/kg bw/day (ArL)
Inhalative	DNEL	6940 mg/m ³ (ArL)

· PNECs

1477-55-0 m-phenylenebis(methylamine)

PNEC	10 mg/l (Kla)
	0.009 mg/l (Mew)
	0.094 mg/l (Suw)
PNEC	0.045 mg/kg dwt (Bod)
	0.43 mg/kg dwt (Marine water sediment)
	0.43 mg/kg dwt (Fresh water sediment)

112-57-2 3,6,9-triazaundecamethylenediamine

PNEC	9.73 mg/l (BEL)
	0.0068 mg/l (Fresh water)
	0.0068 mg/l (Mew)
PNEC	0.343 mg/kg dwt (Sediment)
	3.43 mg/kg dwt (Fresh water sediment)

· Additional information: The lists that were valid during the compilation were used as basis.

· Exposure controls

· Personal protective equipment

· General protective and hygienic measures

Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes.

· Protection of hands:

Protective gloves.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

After use of gloves apply skin-cleaning agents and skin cosmetics.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Safety glasses
Tightly sealed safety glasses.

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· **Body protection:** Protective work clothing.

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Pasty

Colour: Grey

· **Smell:** Characteristic

· **Change in condition**

Melting point/freezing point: Not determined

Initial boiling point and boiling range: 100 °C

· **Flash point:** Not applicable

· **Self-inflammability:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive.

· **Steam pressure at 20 °C:** 23 hPa

· **Density** Not determined

· **Solubility in / Miscibility with**

Water: Partly miscible

· **Viscosity:**

kinematic at 20 °C: 500 s (ISO 6 mm)

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.

· **Chemical stability**

· **Thermal decomposition /**

conditions to be avoided: No decomposition if used according to specifications.

· **Possibility of hazardous reactions**

No dangerous reactions known

· **Conditions to avoid**

No further relevant information available.

· **Incompatible materials:**

No further relevant information available.

· **Hazardous decomposition products:**

No dangerous decomposition products known

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11 Toxicological information

- Information on toxicological effects
- Acute toxicity

· LD/LC50 values that are relevant for classification:

13463-67-7 titanium dioxide

Oral	LD50	>10000 mg/kg (rat)
Dermal	LD50	>10000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.8 mg/l (rat)

1477-55-0 m-phenylenebis(methylamine)

Oral	LD50	1180 mg/kg (mouse) 930 mg/kg (rat)
Dermal	LD50	>3100 mg/kg (rabbit)

112-57-2 3,6,9-triazaundecamethylenediamine

Oral	LD50	2140 mg/kg (rat)
Dermal	LD50	1260 mg/kg (rabbit)

· Primary irritant effect:

- Skin corrosion/irritation Irritant for skin and mucous membranes.
- Serious eye damage/irritation Strong irritant with the danger of severe eye injury.
- Respiratory or skin sensitisation Sensitization possible by skin contact.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Carc. 2

12 Ecological information

· Toxicity

· Aquatic toxicity:

1477-55-0 m-phenylenebis(methylamine)

IC50/72h	12 mg/l (algae)
EC50/72h	12 mg/l (Scenedesmus subspicatus)
LC50/96h	>100 mg/l (Oncorhynchus mykiss) 87.6 mg/l (Ory)
EC50/48h	15.2 mg/l (Daphnia magna)

112-57-2 3,6,9-triazaundecamethylenediamine

EC50/72h	2.1 mg/l (algae)
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LC50/96h	420 mg/l (Gup)
EC50/48h	24.1 mg/l (Daphnia magna)

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

- **UN-Number**
- **ADR, IMDG, IATA** UN3082
- **UN proper shipping name**
- **ADR, IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide, trizinc bis(orthophosphate))
- **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide, trizinc bis(orthophosphate)), MARINE POLLUTANT
- **Transport hazard class(es)**
- **ADR**
- **Class** 9 (M6) Miscellaneous dangerous substances and articles.
- **Label** 9
- **IMDG, IATA**
- **Class** 9 Miscellaneous dangerous substances and articles.

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· Label	9
· Packing group · ADR, IMDG, IATA	III
· Environmental hazards: · Marine pollutant:	Product contains environmentally hazardous substances: Aminpolymer Yes Symbol (fish and tree)
· Special marking (ADR): · Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
· Special precautions for user · Kemler Number: · EMS Number: · Segregation groups · Stowage Category	Warning: Miscellaneous dangerous substances and articles. 90 F-A, S-F Alkalis A
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category · Tunnel restriction code	3 (-)
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC OXIDE, TRIZINC BIS(ORTHOPHOSPHATE)), 9, III

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **Directive 2012/18/EU**
 - **Named dangerous substances - ANNEX I**
- None of the ingredients is listed.

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- **Seveso category** E2 Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

These 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.

- **Department issuing data specification sheet:** Environment protection department.
- **Contact:**
- **Abbreviations and acronyms:** RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 4: Flammable liquids – Category 4
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 5: Acute toxicity – Category 5
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Carc. 2: Carcinogenicity – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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