



BE SURE. BUILD SURE.

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Safety Data Sheet according to P.U.(A) 310/2013

Printing date 12.04.2025

Version number 38


Revision: 12.04.2025

1 Identification of the hazardous chemical and of the supplier

- **Product identifier**
- **Trade name** **MC-Color Flair vision T - Komponente B**
- **Recommended use of the chemical and restrictions on use** *No further relevant information available.*
- **Application of the substance / the mixture** *Coating compound/ Surface coating/ paint
Hardening agent/ Curing agent*
- **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*

2 Hazard identification

- **Classification of the substance or mixture**
*Skin Sens. 1 H317 May cause allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.*
- **Label elements**
- **GHS label elements** *The product is classified and labelled according to the Globally Harmonised System (GHS).*
- **Hazard pictograms**

GHS07
- **Signal word** *Warning*
- **Hazard-determining components of labelling:** *Aliphatisches Polyisocyanat
hexamethylene diisocyanate
Hydrophiles, aliphatisches Polyisocyanat*
- **Hazard statements** *H317 May cause allergic skin reaction.
H335 May cause respiratory irritation.*
- **Precautionary statements** *P261 Avoid breathing dust/fume/ gas/mist/vapours/spray.
P280 Wear protective gloves.*

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P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition and information of the ingredients of the hazardous chemical

· **Chemical characterisation: Mixtures**

· **Description:** Mixture consisting of the following components.

· **Dangerous components:**

CAS: 28182-81-2	Aliphatisches Polyisocyanat Skin Sens. 1, H317; STOT SE 3, H335	30-60%
CAS: 666723-27-9	Hydrophiles, aliphatisches Polyisocyanat Skin Sens. 1, H317; STOT SE 3, H335	≥10-<20%
CAS: 822-06-0	hexamethylene diisocyanate Acute Tox. 1, H330; Resp. Sens. 1, H334; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	≥0.1-<0.5%

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

4 First-aid measures

· **Description of first aid measures**

· **General information**

Remove soiled, soaked clothing immediately.

· **After inhalation**

Remove person to fresh air, keep warm, allow to rest; if breathing is difficult, seek medical attention.

· **After skin contact**

In case of contact with skin, wash carefully with plenty of soap and water. Consult a doctor in case of skin reactions.

· **After eye contact**

Rinse the eyes with open eyelids for a sufficiently long time (at least 10 minutes) with water that is as lukewarm as possible. Consult an ophthalmologist.

· **After swallowing**

Do NOT induce vomiting. Rinse mouth with water. Medical attention required.

· **Information for doctor**

· **Most important symptoms and effects, both acute and delayed**

Advice for the doctor: Elementary aid, decontamination, symptomatic treatment.

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· **Indication of any immediate medical attention and special treatment needed**

Therapeutic measures: No information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** *CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.*
- **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:** *Inform respective authorities in case product reaches water or sewage system.*
- **Methods and material for containment and cleaning up:** *Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.*
- **Reference to other sections** *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** *Ensure sufficient air exchange and/or extraction in the work areas. Air extraction is required for spray application.
For solid products: Avoid dust formation and dust deposits.
Air limit values mentioned in section 8 must be monitored.
At workplaces where isocyanate aerosols and/or vapours can occur in higher concentrations, targeted air extraction must be used to prevent the occupational hygiene limit value from being exceeded. The air must be moved away from people.
For products containing solvents: Explosion protection required.
The personal protective measures described in section 8 must be observed. The protective measures required when handling isocyanates must be observed. Avoid contact with skin and eyes and inhalation of vapours.
Keep away from food and beverages. Wash hands before breaks and at the end of work and apply skin protection ointment. Store*

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work clothes separately. Remove soiled, soaked clothing immediately.

Information about protection against explosions and fires:

Keep ignition sources away - do not smoke.
Protect from heat.
Do not store near heat sources.

Conditions for safe storage, including any incompatibilities

Keep container dry and tightly closed. Further information on the storage conditions that must be observed for quality assurance reasons can be found in our technical data sheet.

Storage

Requirements to be met by storerooms and containers:

Keep tightly closed in original packaging. Ventilate storage rooms well. Carefully close opened containers and store upright to prevent any leakage.

Storage temperature >5°C and <30°C

Information about storage in one common storage facility:

May be stored together with hazardous substances of other classes up to 200 kg.

Further information about storage conditions:

Keep container tightly closed in a well-ventilated place.

Storage class

10

Specific end use(s)

No further relevant information available.

8 Exposure controls and personal protection

Additional information about design of technical systems:

No further data; see section 7.

Control parameters

Components with critical values that require monitoring at the workplace:

CAS: 822-06-0 hexamethylene diisocyanate

PEL (Malaysia) Long-term value: 0.034 mg/m³, 0.005 ppm

DNELs

CAS: 28182-81-2 Aliphatisches Polyisocyanat

Inhalative DNEL 0.5 mg/m³ (Workers) (long term local)

1 mg/m³ (kei) (acute local eff)

CAS: 822-06-0 hexamethylene diisocyanate

Inhalative DNEL 0.5 mg/m³ (ArL)

PNECs

CAS: 28182-81-2 Aliphatisches Polyisocyanat

PNEC aqua 12.7 µg/l (Daphnia magna) (marine)

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PNEC	38.28 mg/l (kei) (STP)
CAS: 822-06-0 hexamethylene diisocyanate	
PNEC	100 mg/l (Sewage Treatment Plant) 0.0199 mg/l (Mew) 0.199 mg/l (Freshwater)
PNEC	8884 mg/kg dwt (Bod) 4455 mg/kg dwt (Marine water sediment) 44551 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**
 - Do not smoke, eat or drink while working. Have eye wash equipment ready.
 - Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.
 - Do not store food in the work area. Wash hands before breaks and at the end of work.
- **Breathing equipment:**
 - Respiratory protection required at insufficiently ventilated workplaces and when working with splashes. Fresh air masks or combination filters A2-P2 (EN529) are recommended for short-term work.
 - If applicable, further recommendations for respiratory protection can be found in the appendix.
 - In case of hypersensitivity of the respiratory tract (asthma, chronic bronchitis), handling of the product is not recommended.
- **Protection of hands:**
 - Suitable materials for protective gloves; EN 374:
 - Butyl rubber - IIR: thickness $\geq 0.5\text{mm}$; breakthrough time $\geq 480\text{min}$.
 - Fluororubber - FKM: thickness $\geq 0.4\text{mm}$; breakthrough time $\geq 480\text{min}$.
 - Multi-layer glove - PE/EVAL/PE ; Breakthrough time $\geq 480\text{ min}$.
 - Recommendation: Dispose of contaminated gloves.
- **Material of gloves**
 - 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.
- **Penetration time of glove material**
 - Butyl rubber - IIR: thickness $\geq 0.5\text{mm}$; breakthrough time $\geq 480\text{min}$.
 - Fluoro rubber - FKM: thickness $\geq 0.4\text{mm}$; breakthrough time $\geq 480\text{min}$.
 - Multi-layer glove - PE/EVAL/PE ; Breakthrough time $\geq 480\text{ min}$.
- **Eye protection:**
 - Wear safety goggles/face protection.
- **Body protection:**
 - Wear suitable protective clothing when working.
 - In case of hypersensitivity of the skin, handling of the product is not recommended.

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9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

· Form:	Fluid
· Colour:	Colourless
· Smell:	Characteristic

· **pH-value at 20 °C:** 7

· **Change in condition**

· Melting point/freezing point	Not determined
· Initial boiling point and boiling range	175 °C

· **Flash point:** 70 °C

· **Ignition temperature:** Product is not selfigniting.

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

· **Steam pressure:** Not determined.

· **Density at 20 °C** 1.1 g/cm³

· **Solubility in / Miscibility with**

· **Water:** Not miscible or difficult to mix

· **Viscosity:**

· dynamic at 20 °C:	2000 mPas
· kinematic:	Not determined.

· **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** Reacts with amines

· **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:

CAS: 28182-81-2 Aliphatisches Polyisocyanat

Oral	LD50	>2500 mg/kg (rat) (OECD 423)
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Dermal	LD50	>2000 mg/kg (rat) (OECD 402)
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Inhalative	LC50/4 h	1.5 mg/l (rat)
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CAS: 666723-27-9 Hydrophiles, aliphatisches Polyisocyanat

Oral	LD50	>5000 mg/kg (rat)
------	------	-------------------

Dermal	LD50	>2000 mg/kg (rat)
--------	------	-------------------

Inhalative	LC50/4 h	0.5 mg/l (rat)
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CAS: 822-06-0 hexamethylene diisocyanate

Oral	LD50	738 mg/kg (rat)
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Inhalative	LC50/4 h	0.39 mg/l (rat)
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- Primary irritant effect:
- Serious eye damage or eye irritation
- Respiratory / skin sensitization
- Additional toxicological information:

No irritant effect.

Sensitization possible by skin contact.

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

12 Ecological information

- Toxicity

· Aquatic toxicity:

CAS: 28182-81-2 Aliphatisches Polyisocyanat

ErC10/72h	370 mg/l (Desmodesmus subspicatus) (EU C.3)
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ErC50/72h	>1000 mg/l (Desmodesmus subspicatus) (EU C.3)
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CAS: 666723-27-9 Hydrophiles, aliphatisches Polyisocyanat

LC50/96h	35.2 mg/l (Danio rerio)
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EC50	>10000 mg/l (BEL)
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EC50/48h	>100 mg/l (Daphnia magna)
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ErC50/72h	72 mg/l (Desmodesmus subspicatus)
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- Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential No further relevant information available.

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- **Mobility in soil** *No further relevant information available.*
- **Ecotoxicological effects:**
- **Remark:** *Harmful to fish*
- **Additional ecological information:**
- **General notes:** *Harmful to aquatic organisms
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.*
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*
- **Other adverse effects** *No further relevant information available.*

13 Disposal information

- **Waste treatment methods**
- **Recommendation** *Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- **Uncleaned packagings:**
- **Recommendation:** *Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.*

14 Transportation information

- | | |
|---|------------------------|
| · UN-Number | <i>Void</i> |
| · ADR, ADN, IMDG, IATA | <i>Void</i> |
| · UN proper shipping name | <i>Void</i> |
| · ADR, ADN, IMDG, IATA | <i>Void</i> |
| · Transport hazard class(es) | <i>Void</i> |
| · ADR, ADN, IMDG, IATA | <i>Void</i> |
| · Class | <i>Void</i> |
| · Packing group | <i>Void</i> |
| · ADR, IMDG, IATA | <i>Void</i> |
| · Environmental hazards: | |
| · Marine pollutant: | <i>No</i> |
| · Special precautions for user | <i>Not applicable.</i> |
| · Transport in bulk according to Annex II of Marpol and the IBC Code | <i>Not applicable.</i> |
| · UN "Model Regulation": | <i>Void</i> |

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15 Regulatory information

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

· **EHS reference list**

CAS: 822-06-0 hexamethylene diisocyanate

· **Directive 2012/18/EU**

· **Named dangerous**

substances - ANNEX I

None of the ingredients is listed.

· **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
Acute Tox. 4: Acute toxicity - oral – Category 4
Acute Tox. 1: Acute toxicity - oral – Category 1
Skin Irrit. 2: Skin corrosion or irritation – Category 2
Eye Irrit. 2: Serious eye damage or eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitization – Category 1
Skin Sens. 1: Skin sensitization – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· *** Data compared to the previous version altered.**