



BE SURE. BUILD SURE.

Page 1/12

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.04.2024

Version number 29 (replaces version 28)

Revision: 12.04.2024

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

1.1 Product identifier

Trade name **MC-DUR TopSpeed flex plus - Komponente B**

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

No further relevant information available.

1.3 Application of the substance / the mixture

Polyurethane resin
Hardening agent/ Curing agent

1.3 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

1.4 Emergency telephone number:

Tel.: +49 / (0)700 24112112 (MCR)
Tel.: +1 872 5888271 (MCR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements

Labelling according to

Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms



GHS07

Signal word

Warning

Hazard-determining components of labelling:

polymer isocyanate terminated

(Contd. on page 2)

GB



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Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.04.2024

Version number 29 (replaces version 28)

Revision: 12.04.2024

Trade name MC-DUR TopSpeed flex plus - Komponente B

(Contd. of page 1)

- **Hazard statements**
Aliphatisches Polyisocyanat
aliphatic polycyanat
hexamethylene diisocyanate
H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
- **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
- **Additional information:**
EUH204 Contains isocyanates. May produce an allergic reaction.
As from 24 August 2023 adequate training is required before industrial or professional use.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Active substance with propellant.
Mixture consisting of the following components.

· **Dangerous components:**

EC number: 953-812-0	polymer isocyanate terminated Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	30-60%
CAS: 28182-81-2	Aliphatisches Polyisocyanat Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	≥20-≤30%
CAS: 72968-35-5	aliphatic polycyanat Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	≥20-≤30%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	<10%

(Contd. on page 3)



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Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.04.2024

Version number 29 (replaces version 28)

Revision: 12.04.2024

Trade name MC-DUR TopSpeed flex plus - Komponente B

(Contd. of page 2)

<p>CAS: 108-32-7 EINECS: 203-572-1</p>	<p>Propylene carbonate Eye Irrit. 2, H319</p>	<p><1.5%</p>
<p>CAS: 822-06-0 EINECS: 212-485-8 Reg.nr.: 01-2119457571-37-0000</p>	<p>hexamethylene diisocyanate Acute Tox. 3, H331; Resp. Sens. 1, H334; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Resp. Sens. 1; H334: C_≥ 0.5 % Skin Sens. 1; H317: C_≥ 0.5 %</p>	<p>≥0.1-<0.5%</p>

· **Additional information**

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 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.

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

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

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

Therapeutic measures: No information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents** Use fire fighting measures that suit the environment.

· **5.2 Special hazards arising from the substance or mixture**

Can be released in case of fire

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Hydrogen cyanide (HCN)

(Contd. on page 4)



BE SURE. BUILD SURE.

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.04.2024

Version number 29 (replaces version 28)

Revision: 12.04.2024

Trade name MC-DUR TopSpeed flex plus - Komponente B

(Contd. of page 3)

- **5.3 Advice for firefighters**
- **Protective equipment:** *Wear self-contained breathing apparatus.*

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** *Ensure adequate ventilation
Use breathing protection against the effects of fumes/dust/aerosol.*
- **6.2 Environmental precautions:** *Prevent material from reaching sewage system, holes and cellars.*
- **6.3 Methods and material for containment and cleaning up:** *Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.*
- **6.4 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.*

SECTION 7: Handling and storage

- **7.1 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 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.*

(Contd. on page 5)



BE SURE. BUILD SURE.

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.04.2024

Version number 29 (replaces version 28)

Revision: 12.04.2024

Trade name MC-DUR TopSpeed flex plus - Komponente B

(Contd. of page 4)

· **7.2 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

· **7.3 Specific end use(s)**

No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Components with critical values that require monitoring at the workplace:**

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

WEL Short-term value: 548 mg/m³, 100 ppm
Long-term value: 274 mg/m³, 50 ppm
Sk

CAS: 822-06-0 hexamethylene diisocyanate

WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
Sen; as -NCO

· **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: 108-65-6 2-methoxy-1-methylethyl acetate

Dermal DNEL 153.5 mg/kg bw/day (ArL)
Inhalative DNEL 275 mg/m³ (ArL)

CAS: 822-06-0 hexamethylene diisocyanate

Inhalative DNEL 0.5 mg/m³ (ArL)

(Contd. on page 6)



BE SURE. BUILD SURE.

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.04.2024

Version number 29 (replaces version 28)

Revision: 12.04.2024

Trade name MC-DUR TopSpeed flex plus - Komponente B

(Contd. of page 5)

· PNECs

CAS: 28182-81-2 Aliphatisches Polyisocyanat

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

PNEC 38.28 mg/l (kei) (STP)

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

PNEC 0.635 mg/l (Fresh water)

100 mg/l (Kla)

0.0635 mg/l (Mew)

PNEC 0.29 mg/kg dwt (Bod)

0.329 mg/kg dwt (Marine water sediment)

3.29 mg/kg dwt (Fresh water sediment)

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)

· Ingredients with biological limit values:

CAS: 822-06-0 hexamethylene diisocyanate

BMGV 1 µmol creatinine/mol

Medium: urine

Sampling time: At the end of the period od exposure

Parameter: isocyanate-derived diamine

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

· 8.2 Exposure controls

· Appropriate engineering controls

No further data; see section 7.

· Individual protection measures, such as 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.

(Contd. on page 7)



BE SURE. BUILD SURE.

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.04.2024

Version number 29 (replaces version 28)

Revision: 12.04.2024

Trade name MC-DUR TopSpeed flex plus - Komponente B

(Contd. of page 6)

An nicht ausreichend entlüfteten Arbeitsplätzen und bei Spritzverarbeitung Atemschutz erforderlich. Empfohlen werden Frischluftmaske oder für kurzzeitige Arbeiten Kombinationsfilter A2-P2.

Bei Überempfindlichkeit der Atemwege und der Haut (Asthma, chronische Bronchitis, chronische Hautleiden) wird der Umgang mit dem Produkt abgeraten.

· Hand protection

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.

Bedingt geeignete Materialien für Schutzhandschuhe; EN 374-3:

Nitrilkautschuk - NBR: Dicke $\geq 0,35\text{mm}$

Nur als Spritzschutz geeignet. Nur bei kurzzeitiger Einwirkung geeignet. Bei Kontamination sind die Schutzhandschuhe sofort zu wechseln.

· 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/face 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.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour:

Colourless

· Smell:

Like aromatic solvents

· Melting point/freezing point:

Not determined

· Boiling point or initial boiling point and boiling range

245 °C (CAS: 166412-78-8 1,2-Cyclohexandicarbonsäurediisononylester)

· Flash point:

>75 °C (DIN 51755)

· Auto-ignition temperature:

330 °C (CAS: 166412-78-8 1,2-Cyclohexandicarbonsäurediisononylester)

· pH

Not applicable.

Not determined.

(Contd. on page 8)



BE SURE. BUILD SURE.

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Printing date 12.04.2024

Version number 29 (replaces version 28)

Revision: 12.04.2024

Trade name MC-DUR TopSpeed flex plus - Komponente B

(Contd. of page 7)

- **Viscosity:**
- **Kinematic viscosity** Not determined.
- **dynamic:** Not determined.
- **Solubility**
- **Water:** Hydrolized
- **Steam pressure at 20 °C:** 0 hPa (CAS: 166412-78-8 1,2-Cyclohexandicarbonsäurediisononylester)
- **Density and/or relative density**
- **Density at 20 °C** 1.03 g/cm³

· **9.2 Other information**

- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive.

· **Information with regard to physical hazard classes**

- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with amines
- **10.4 Conditions to avoid** No further relevant information available.

(Contd. on page 9)



BE SURE. BUILD SURE.

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.04.2024

Version number 29 (replaces version 28)

Revision: 12.04.2024

Trade name MC-DUR TopSpeed flex plus - Komponente B

(Contd. of page 8)

- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if inhaled.

· **LD/LC50 values that are relevant for classification:**

CAS: 28182-81-2 Aliphatisches Polyisocyanat

Oral	LD50	>2500 mg/kg (rat) (OECD 423)
Dermal	LD50	>2000 mg/kg (rat) (OECD 402)
Inhalative	LC50/4 h	1.5 mg/l (rat)

CAS: 72968-35-5 aliphatic polycyanat

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

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

Oral	LD50	8500 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

CAS: 108-32-7 Propylene carbonate

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

CAS: 822-06-0 hexamethylene diisocyanate

Oral	LD50	738 mg/kg (rat)
Inhalative	LC50/4 h	0.39 mg/l (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

GB

(Contd. on page 10)



BE SURE. BUILD SURE.

Page 10/12

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.04.2024

Version number 29 (replaces version 28)

Revision: 12.04.2024

Trade name MC-DUR TopSpeed flex plus - Komponente B

(Contd. of page 9)

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 28182-81-2 Aliphatisches Polyisocyanat

ErC10/72h 370 mg/l (*Desmodesmus subspicatus*) (EU C.3)

ErC50/72h >1000 mg/l (*Desmodesmus subspicatus*) (EU C.3)

CAS: 108-65-6 2-methoxy-1-methylethyl acetate

LC50/96h 134 mg/l (*Oncorhynchus mykiss*)

161 mg/l (*Pimephales promelas*)

EC50 >1000 mg/l (BEL)

EC50/48h >500 mg/l (*Daphnia magna*)

NOEC 47.5 mg/l (*Ory*)

EC50/3d >1000 mg/l (*Selenastrum capricornutum*)

· 12.2 Persistence and degradability

No further relevant information available.

· 12.3 Bioaccumulative potential

No further relevant information available.

· 12.4 Mobility in soil

No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· PBT:

Not applicable.

· vPvB:

Not applicable.

· 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

· 12.7 Other adverse effects

· Additional ecological information:

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

· 13.1 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.

GB

(Contd. on page 11)



BE SURE. BUILD SURE.

Safety data sheet
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Printing date 12.04.2024

Version number 29 (replaces version 28)

Revision: 12.04.2024

Trade name MC-DUR TopSpeed flex plus - Komponente B

(Contd. of page 10)

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture** *No further relevant information available.*
 · **Poisons Act**

· **Regulated explosives precursors**
None of the ingredients is listed.

· **Regulated poisons**
None of the ingredients is listed.

· **Reportable explosives precursors**
None of the ingredients is listed.

· **Reportable poisons**
None of the ingredients is listed.

· **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

SECTION 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.

(Contd. on page 12)



BE SURE. BUILD SURE.

Page 12/12

Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

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Version number 29 (replaces version 28)

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Trade name MC-DUR TopSpeed flex plus - Komponente B

(Contd. of page 11)

· **Relevant phrases**

H226 *Flammable liquid and vapour.*
H302 *Harmful if swallowed.*
H315 *Causes skin irritation.*
H317 *May cause an allergic skin reaction.*
H319 *Causes serious eye irritation.*
H331 *Toxic if inhaled.*
H332 *Harmful if inhaled.*
H334 *May cause allergy or asthma symptoms or breathing difficulties if inhaled.*
H335 *May cause respiratory irritation.*
H336 *May cause drowsiness or dizziness.*
EUH204 *Contains isocyanates. May produce an allergic reaction.*

· **Department issuing data specification sheet:**

Environment protection department.

· **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
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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 (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

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