

- Metallographiebedarf
- Werkstofftechnik
- IDA Industrie-Diamant-Aachen

gemäß Verordnung (EG) Nr. 1907/2006

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

- **1.1 Product identifier**
- **Trade name: VariKEM 100 Komp. B**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
isocyanate component of a 2-component special resin system for industrial or professional applications
- **Applications, which are not recommended:**
Product must not be used for spraying.
Not suitable for do-it-yourself-applications
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Schmitz-Metallographie GmbH
Kaiserstraße 100
D-52134 Herzogenrath
Telefon: 02407 568296-0
E-Mail: info@schmitz-metallographie.de
Internet: www.schmitz-metallographie.de
Auskunftgebender Bereich: Labor; Erreichbarkeit Notrufnummer: Mo. – Fr. 09:00 – 16:00 Uhr

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 Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2 H319 Causes serious eye irritation.
- Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Carc. 2 H351 Suspected of causing cancer. Route of exposure: Inhalation.
- STOT SE 3 H335 May cause respiratory irritation.
- STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.
- Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

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 - **2.2 Label elements**

 - **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

 - **Hazard pictograms**


GHS07 GHS08 GHS09

 - **Signal word Danger**

 - **Hazard-determining components of labelling:**

4,4'-methylenediphenyl diisocyanate

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 - **Hazard statements**

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer. Route of exposure: Inhalation.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.

H304 May be fatal if swallowed and enters airways.

H410 Very toxic to aquatic life with long lasting effects.

 - **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P284 [In case of inadequate ventilation] wear respiratory protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

 - **Additional information:**

Contains isocyanates. May produce an allergic reaction.

 - **2.3 Other hazards**

 - **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients
- 3.2 Mixtures

- **Description:** Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

CAS: 101-68-8 EINECS: 202-966-0 Reg.nr.: 01-2119457014-47	4,4'-methylenediphenyl diisocyanate Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	50-100%
CAS: 38640-62-9 EINECS: 254-052-6 Reg.nr.: 01-2119565150-48-0000	Bis(isopropyl)naphthalin Asp. Tox. 1, H304; Aquatic Chronic 1, H410	25-50%

- **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:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation:

Supply fresh air and to be sure call for a doctor.

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In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:** If symptoms persist consult doctor.

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

No further relevant information available.

- Information for doctor:

The product irritates the respiratory tract and is a potential sensor for sensitization of skin and respiratory tract. The treatment of the acute irritation or bronchial constriction is primarily symptomatic. Depending on extent of the exposition and disturbances a longer medical care can be necessary.

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

No further relevant information available.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fire with alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
Hydrogen cyanide (HCN)
(Traces)
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.
- **Additional information**
In case of flame spread pressure build-up, bursting danger. Containers should be cooled with water and removed from danger zone.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective clothing.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
After approx. 1 hour to be filled in suitable barrels; the barrels should not be closed (liberation of CO₂), but only covered. They should be left outside for 7-14 days, then the containers can be disposed according to official regulations.

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See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

The air limiting values mentioned in chapter 8 have to be controlled. At places of work, where aerosols and/or fumes can occur in higher concentrations, exceeding of limiting hygienic values has to be prevented by specific air exhaust. The air motions have to be carried out from the persons away.

The personal safety measures mentioned in chapter 8 are to be followed. The measures regarding handling with isocyanate are to be followed. Contact with skin and eyes as well as breathing in of vapours is to be avoided.

Safety precautions for handling of just molded polyurethane parts (prototypes, positives or negatives):

Depending on the production parameters, any uncovered surfaces of polyurethane moldings containing isocyanates as raw material, may contain traces of substances (e. g. primary and reaction products, catalysts, release agents) with hazardous characteristics. Avoid any skin contact with traces of

these substances! When demolding or otherwise handling just molded polyurethane parts, use protective nitrile rubber gloves (according to DIN EN 374) or protective nitrile rubber gloves against mechanic exposure. For any further skin protection we recommend to wear protective clothing when handling just molded polyurethane parts.

In case you are aware of any allergic reaction to this material, consult your company physician (in line with risk assessment) before working with the product.

- Information about fire - and explosion protection: No special measures required.

- 7.2 Conditions for safe storage, including any incompatibilities

- Storage:

- Requirements to be met by storerooms and receptacles:

Moistness in a full or empty isocyanate container can cause pressure build-up and can lead to explosion.

- Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from foodstuffs.

- Further information about storage conditions:

The material tends to crystallize at a temperature below 20°C. By warming up to 40-50°C for several hours this effect can be compensated. The material can be melted several times without quality reduction.

Protect from humidity and water.

Keep container tightly closed.

- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

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- 8.1 Control parameters**- Ingredients with limit values that require monitoring at the workplace:****101-68-8 4,4'-methylenediphenyl diisocyanate (50 – 100%)**

WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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- DNELs**101-68-8 4,4'-methylenediphenyl diisocyanate**

Oral	short term DNEL systemic effects	20 mg/kg (Consumer)
Dermal	short term DNEL systemic effects	25 mg/kg (Consumer)
		50 mg/kg (worker)
Inhalative	short term DNEL local effects	17.2 mg/cm ² (Consumer)
		28.7 mg/cm ² (worker)
	short term DNEL systemic effects	0.05 mg/m ³ (Consumer)
		0.1 mg/m ³ (worker)
	short term DNEL local effects	0.05 mg/m ³ (Consumer)
		0.1 mg/m ³ (worker)
	long term DNEL systemic effects	0.025 mg/m ³ (Consumer)
		0.05 mg/m ³ (worker)
	long term DNEL local effects	0.025 mg/m ³ (Consumer)
		0.05 mg/m ³ (worker)

- PNECs**101-68-8 4,4'-methylenediphenyl diisocyanate**

freshwater	1 mg/l (freshwater)
seawater	0.1 mg/l (seawater)
Sediment	1 mg/kg (Sediment)

38640-62-9 Bis(isopropyl)naphthalin

NOEC (21 d)	0.013 mg/l (daphnia magna) ((OECD 202, part 2))
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- **Additional information:** The lists valid during the making were used as basis.

- 8.2 Exposure controls**- Personal protective equipment:****- General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

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- Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A2/P2

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- Protection of hands:

Protective gloves

For the permanent contact gloves made of Nitrilkautschuk with a layer thickness of at least 0.33 mm are suitable. The penetration time of this glove material is 480 minutes.

The glove material has to be according the requirement of EU-guideline 89/686/EWG and the resulting norm EN374, for example KCL Camatril,0731. The above mentioned

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penetration times are based on laboratory measurements of KCL according to EN 374.

This recommendation is only valid for the product, which is delivered from us and only for the intended mentioned application. Regarding dissolution or mixing with other substances please contact suppliers of CE-approved gloves. (For example KCL GmbH, D-36124 Eichenzell, internet: www.kcl.de)

ebalta gives this recommendation in good faith, without liability for any claims arising from the recommendation or the use of the suggested protection gloves.

- Material of gloves

Rubber gloves

PVC 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. 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.

- Eye protection:



Tightly sealed goggles

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SECTION 9: Physical and chemical properties
- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.

- **pH-value at 20 °C:** < 7 (ISO 8975)

- Change in condition

Melting point/freezing point:	15 °C
Initial boiling point and boiling range:	> 230 °C (DIN 53171)

- **Flash point:** 141 °C (c.c.)

- **Flammability (solid, gas):** Not applicable.

- **Ignition temperature:** 425 °C (DIN 51794)

- **Decomposition temperature:** Not determined.

- **Auto-ignition temperature:** Product is not selfigniting.

- **Explosive properties:** Product does not present an explosion hazard.

- Explosion limits:

Lower:	0,4 Vol %
Upper:	4,7 Vol %

- **Vapour pressure:** Not determined.

- **Density at 20 °C:** 1,2 g/cm³ (ISO 2811)

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- **Relative density** Not determined.

- **Vapour density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

- **Partition coefficient: n-octanol/water:** Not determined.

- Viscosity:

Dynamic at 20 °C:	35 mPas (ISO 9371)
Kinematic:	Not determined.

- Solvent content:

Organic solvents: 0,0 %

Solids content: 63,4 %

- **9.2 Other information** No further relevant information available.

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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 and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Exothermic reaction with amines and alcohols; with water CO₂-development, in closed container developing of pressure, bursting danger.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Avoid contact with water, amines, alcohol, vapour, glycols, watery mixtures.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Harmful if inhaled.

- **LD/LC50 values relevant for classification:**

101-68-8 4,4'-methylenediphenyl diisocyanate

Oral	LD50	>2,000 mg/kg (rat) (Richtlinie 84/449/EWG, B.1)
Dermal	LD50	>9,400 mg/kg (Ka)

38640-62-9 Bis(isopropyl)naphthalin

Oral	LD50	>4,000 mg/kg (rat)
	NOAEL Langzeittoxizität	170 mg/kg (rat)
Dermal	LD50	>4,000 mg/kg (rat)
Inhalative	LC50/4 h Aerosole	>5.6 mg/l (rat) ((OECD 403 (Aerosol)))

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.

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- **Respiratory or skin sensitisation**
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
- **Additional toxicological information: sensitizing**
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** *Based on available data, the classification criteria are not met.*
- **Carcinogenicity**
Suspected of causing cancer. Route of exposure: Inhalation.
- **Reproductive toxicity** *Based on available data, the classification criteria are not met.*
- **STOT-single exposure**
May cause respiratory irritation.
- **STOT-repeated exposure**
May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

101-68-8 4,4'-methylenediphenyl diisocyanate

EC 50 (3h)	>100 mg/l (activated sludge) (OECD-Richtlinie 209, aquatisch)
EC0 (72h)	1,640 mg/l (<i>Scenedesmus subspicatus</i>) (OECD-Richtlinie 202, Teil 1 statisch)
EC 50 (24 h)	>1,000 mg/l (<i>daphnia magna</i>) (OECD-Richtlinie 202, Teil 1, statisch)
LC0 (96 h)	>1,000 mg/l (<i>Brachydanio rerio</i>) (OECD-Richtlinie 203, statisch)

38640-62-9 Bis(isopropyl)naphthalin

EC0 (72h)	0.15 mg/l (AI) ((OECD 201))
EC0 (48h)	0.16 mg/l (<i>daphnia magna</i>) ((DIN 38412, part 11))
LL50 (48h)	1.7 mg/l (<i>daphnia magna</i>) ((loading, OECD 202))
LC0 (96 h)	0.5 mg/l (fish) ((nominal; OECD 203))

- **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.*
- **Ecotoxicological effects:**
- **Remark:** *Toxic for fish*
- **Additional ecological information:**
- **General notes:**
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.

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- **12.5 Results of PBT and vPvB assessment**
- *PBT: Not applicable.*
- *vPvB: Not applicable.*

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- **12.6 Other adverse effects** *No further relevant information available.*

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SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key:**
The Waste-Key-Numbers have to be given from the waste-producer depending on the respective trade. Therefore no information can be stated from the manufacturer.

- European waste catalogue

HP 4	Irritant - skin irritation and eye damage
HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 7	Carcinogenic
HP 13	Sensitising
HP 14	Ecotoxic

- **Uncleaned packaging:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

- | | |
|---------------------------------------|--|
| - 14.1 UN-Number | |
| - ADR, IMDG, IATA | UN3082 |
| - 14.2 UN proper shipping name | |
| - ADR | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis(isopropyl)naphthalin) |
| - IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis(isopropyl)naphthalin), MARINE POLLUTANT |
| - IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bis(isopropyl)naphthalin) |

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- 14.3 Transport hazard class(es)	
- ADR, IMDG, IATA	
- Class	9 Miscellaneous dangerous substances and articles.
- Label	9
- 14.4 Packing group	
- ADR, IMDG, IATA	III

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- 14.5 Environmental hazards:	Product contains environmentally hazardous substances: Bis(isopropyl)naphthalin
- Marine pollutant:	Yes
- Special marking (ADR):	Symbol (fish and tree)
- Special marking (IATA):	Symbol (fish and tree)
- 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
- Danger code (Kemler):	90
- EMS Number:	F-A,S-F
- Stowage Category	A
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- Transport/Additional information:	
- ADR	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- Transport category	3
- Tunnel restriction code	E
- IMDG	
- Limited quantities (LQ)	5L
- Excepted quantities (EQ)	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. (BIS(ISOPROPYL)NAPHTHALIN), 9, III

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Directive 2012/18/EU
- Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 56a
- National regulations:
- VOC (EC) 0.00 %

Class	Share in %
I	69.8

- **Waterhazard class:**
Water hazard class 3 (Self-assessment): extremely hazardous for water.

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- Other regulations, limitations and prohibitive regulations

- Substances of very high concern (SVHC) according to REACH, Article 57

No substances of very high concern contained resp. below the limit.

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

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer. Route of exposure: Inhalation.

H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.

H410 Very toxic to aquatic life with long lasting effects.

- Department issuing SDS: Product Safety

- Contact:

Abteilung Produktsicherheit Telefon: 02407 568296-0

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- **Abbreviations and acronyms:**

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

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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

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