

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

Printing date 17.06.2013



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Revision: 17.06.2013

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

- **Product identifier**
  - **Trade name:** CARSYSTEM CARBON PUTTY
  - **Relevant identified uses of the substance or mixture and uses advised against** Not determined
  - **Application of the substance / the preparation** Knife filler/ Surfacer
  
  - **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
Vosschemie GmbH  
Esinger Steinweg 50  
D-25436 Uetersen  
Phone: +49 (0)4122 717 0; Fax: +49 (0)4122 717158; info@vosschemie.de
  
  - **Further information obtainable from:**  
Abteilung Labor / +49 (0)4122 717 0  
s.schaller@vosschemie.de
  - **Emergency telephone number:**  
Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland  
Phone: +49 (0)551 19240, +49 (0)551 383180
- 

**2 Hazards identification**

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  -  **Xn; Harmful**  
R20-48/20: Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation.
  
  -  **Xi; Irritant**  
R36/37/38: Irritating to eyes, respiratory system and skin.
  
  - R10: Flammable.

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· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **Label elements**

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**



Xn Harmful

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

styrene

· **Risk phrases:**

10 Flammable.

20 Harmful by inhalation.

36/37/38 Irritating to eyes, respiratory system and skin.

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

· **Safety phrases:**

2 Keep out of the reach of children.

23 Do not breathe vapour/spray.

24/25 Avoid contact with skin and eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37 Wear suitable protective clothing and gloves.

46 If swallowed, seek medical advice immediately and show this container or label.

51 Use only in well-ventilated areas.

56 Dispose of this material and its container to hazardous or special waste collection point.

· **Special labelling of certain preparations:**

Contains cobalt bis(2-ethylhexanoate). May produce an allergic reaction.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

· **Dangerous components:**

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CAS: 100-42-5 EINECS: 202-851-5 Reg.nr.: 01-2119457861-32	styrene ☒ Xn R20-48/20-65; ☒ Xi R36/37/38 R10 ☠ Flam. Liq. 3, H226; ☠ STOT RE 1, H372; Asp. Tox. 1, H304; ☠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	25-50%
CAS: 67-56-1 EINECS: 200-659-6 Reg.nr.: 01-2119433307-44	methanol ☠ T R23/24/25-39/23/24/25; ☠ F R11 ☠ Flam. Liq. 2, H225; ☠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ☠ STOT SE 1, H370	0.1-1.0%
CAS: 136-52-7 EINECS: 205-250-6 Reg.nr.: 01-2119524678-29	cobalt bis(2-ethylhexanoate) ☒ Xn R62; ☒ Xi R43; ☠ N R50/53 Repr. Cat. 3 ☠ Repr. 2, H361f; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☠ Eye Irrit. 2, H319; Skin Sens. 1, H317	0.1-1.0%

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

#### 4 First aid measures

· **Description of first aid measures**

· **General information:**

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

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Immediately remove any clothing soiled by the product.

· **After inhalation:**

Supply fresh air or oxygen; call for doctor.

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

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

Call a doctor immediately.

· **After swallowing:** Do not induce vomiting; call for medical help immediately.

· **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:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

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

Formation of toxic gases is possible during heating or in case of fire.

· **Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

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*Do not inhale explosion gases or combustion gases.*

**· Additional information**

*Cool endangered receptacles with water spray.*

*Collect contaminated fire fighting water separately. It must not enter the sewage system.*

*Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*

**6 Accidental release measures****· Personal precautions, protective equipment and emergency procedures**

*Wear protective equipment. Keep unprotected persons away.*

*Avoid contact with the eyes and skin.*

*Ensure adequate ventilation*

*Do not inhale gases / fumes / aerosols.*

*Keep away from ignition sources.*

**· Environmental precautions:**

*Do not allow to enter sewers/ surface or ground water.*

*Inform respective authorities in case of seepage into water course or sewage system.*

**· 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.*

*Do not flush with water or aqueous cleansing agents*

**· 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 disposal information.*

**7 Handling and storage****· Handling:****· Precautions for safe handling**

*Keep receptacles tightly sealed.*

*Ensure good ventilation/exhaustion at the workplace.*

*Do not inhale gases / fumes / aerosols.*

*Avoid contact with the eyes and skin.*

**· Information about fire - and explosion protection:**

*Keep ignition sources away - Do not smoke.*

*Fumes can combine with air to form an explosive mixture.*

*Protect against electrostatic charges.*

*Use explosion-proof apparatus / fittings and spark-proof tools.*

**· Conditions for safe storage, including any incompatibilities****· Storage:**

**· Requirements to be met by storerooms and receptacles:** *Store only in the original receptacle.*

**· Information about storage in one common storage facility:**

*Store away from oxidizing agents.*

*Store away from foodstuffs.*

**· Further information about storage conditions:**

*Store in cool, dry conditions in well sealed receptacles.*

*Store receptacle in a well ventilated area.*

*Protect from heat and direct sunlight.*

*Keep ignition sources away - Do not smoke.*

**· Recommended storage temperature:** *< 30 °C*

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· *Specific end use(s)* No further relevant information available.

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**8 Exposure controls/personal protection**· *Additional information about design of technical facilities:* No further data; see item 7.· *Control parameters*· *Ingredients with limit values that require monitoring at the workplace:***100-42-5 styrene**

WEL (Great Britain)	Short-term value: 1080 mg/m <sup>3</sup> , 250 ppm Long-term value: 430 mg/m <sup>3</sup> , 100 ppm
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**67-56-1 methanol**

WEL (Great Britain)	Short-term value: 333 mg/m <sup>3</sup> , 250 ppm Long-term value: 266 mg/m <sup>3</sup> , 200 ppm Sk
IOELV (EU)	Long-term value: 260 mg/m <sup>3</sup> , 200 ppm Skin

· *DNELs***100-42-5 styrene**

Oral	Long-term exposure - systemic effects	2.1 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	343 mg/kg bw/day (general population) 406 mg/kg bw/day (worker)
Inhalative	Acute/short-term exposure - local effects	182.75 mg/m <sup>3</sup> (general population) 306 mg/m <sup>3</sup> (worker)
	Acute/short-term exposure - systemic effects	174.25 mg/m <sup>3</sup> (general population) 289 mg/m <sup>3</sup> (worker)
	Long-term exposure - systemic effects	10.2 mg/m <sup>3</sup> (general population) 85 mg/m <sup>3</sup> (worker)

**67-56-1 methanol**

Oral	Acute/short-term exposure - systemic effects	8 mg/kg bw/day (general population)
	Long-term exposure - systemic effects	8 mg/kg bw/day (general population)
Dermal	Acute/short-term exposure - systemic effects	8 mg/kg bw/day (general population) 40 mg/kg bw/day (worker)
	Long-term exposure - systemic effects	8 mg/kg bw/day (general population) 40 mg/kg bw/day (worker)
Inhalative	Acute/short-term exposure - local effects	50 mg/m <sup>3</sup> (general population) 260 mg/m <sup>3</sup> (worker)
	Acute/short-term exposure - systemic effects	50 mg/m <sup>3</sup> (general population) 260 mg/m <sup>3</sup> (worker)
	Long-term exposure - local effects	50 mg/m <sup>3</sup> (general population) 260 mg/m <sup>3</sup> (worker)
	Long-term exposure - systemic effects	50 mg/m <sup>3</sup> (general population) 260 mg/m <sup>3</sup> (worker)

**136-52-7 cobalt bis(2-ethylhexanoate)**

Oral	Long-term exposure - systemic effects	0.0558 mg/kg bw/day (general population)
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Inhalative	Long-term exposure - local effects	0.037 mg/m <sup>3</sup> (general population) 0.235 mg/m <sup>3</sup> (worker)
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## · PNECs

**100-42-5 styrene**

PNEC STP	5 mg/l (-)
PNEC aqua	0.028 mg/l (freshwater)
	0.0028 mg/l (marine water)
	0.04 mg/l (intermittent releases)
PNEC sediment	0.614 mg/kg (freshwater)
	0.0614 mg/kg (marine water)
PNEC soil	0.2 mg/kg (soil dw)

**67-56-1 methanol**

PNEC STP	100 mg/l (-)
PNEC aqua	154 mg/l (freshwater)
	15.4 mg/l (marine water)
	1540 mg/l (intermittent releases)
PNEC sediment	570.4 mg/kg (freshwater)
PNEC soil	25.3 mg/kg (soil dw)

**136-52-7 cobalt bis(2-ethylhexanoate)**

PNEC STP	0.37 mg/l (-)
PNEC aqua	0.00051 mg/l (freshwater)
	0.00236 mg/l (marine water)
PNEC sediment	9.5 mg/kg (freshwater)
	9.5 mg/kg (marine water)
PNEC soil	7.9 mg/kg (soil dw)

· **Additional information:** The lists valid during the making were used as basis.

· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Do not eat, drink, smoke or sniff while working.

Store protective clothing separately.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Use skin protection cream for skin protection.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

No special procedures required if all workplace limit values are continuously respected.

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.

Filter A/P2

· **Protection of hands:**

Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Check the permeability prior to each renewed use of the glove.

Preventive skin protection by use of skin-protecting agents is recommended.

· **Material of gloves**

Fluorocarbon rubber (Viton)

Empfohlene Materialstärke:  $\geq 0.7$  mm

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**

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

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

· **Not suitable are gloves made of the following materials:**

Natural rubber, NR

Chloroprene rubber, CR

Nitrile rubber, NBR

Butyl rubber, BR

PVC gloves

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

**9 Physical and chemical properties**

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

· **General Information**

· **Appearance:**

**Form:** Fluid

**Colour:** Grey

· **Odour:** Characteristic

· **pH-value:** Not determined

· **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 145 °C

· **Flash point:** 31 °C

· **Ignition temperature:** 480 °C

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

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

**Lower:** 1.2 Vol %

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Upper:	8.9 Vol %
· Vapour pressure at 20 °C:	6 hPa
· Density at 20 °C:	1.1 g/cm <sup>3</sup>
· Vapour density	Not determined
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined
· Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined
· Other information	No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** No decomposition if used according to specifications.
- **Chemical stability** No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**  
Reacts with peroxides and other radical forming substances.  
Exothermic polymerization.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Formation of toxic gases is possible during heating or in case of fire.

### 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

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

**100-42-5 styrene**

Oral	LD50	5000 mg/kg (rat)
Dermal	LD 50	>2000 mg/kg (rat) (OECD 402)
Inhalative	LC50 /4h	11.8 mg/l (rat)

**67-56-1 methanol**

Oral	LD50	5628 mg/kg (rat)
Dermal	LD50	15800 mg/kg (rabbit)
Inhalative	LC50 /4h	83.8 mg/l (rat)

**136-52-7 cobalt bis(2-ethylhexanoate)**

Oral	LD50	3129 mg/kg (rat)
Dermal	LD 50	> 2000 mg/kg (rat)

· **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.

· **Subacute to chronic toxicity:**

**100-42-5 styrene**

Inhalative	NOAEL (subacute)	0.85 mg/l (rat) (13w, 6h/day, Vapour)
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NOAEL (subchronic)	0.8 mg/l (rat) (OECD 453, 2a, 6h/day, Vapour)
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· **Additional toxicological information:**

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

Harmful

Irritant

· **Sensitisation** Sensitizing effect by skin contact is possible by prolonged exposure.

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

· **Carcinogenicity**

**100-42-5 styrene**

Inhalative	NOAEL (carcinogenicity)	4.34 mg/l (rat) (OECD 453, 2a, 6h/day, 5d/week, Vapour)
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· **Reproductive toxicity/Fertility**

**100-42-5 styrene**

Inhalative	NOAEL (fertility)	0.65 mg/l (rat, parents) (OECD 416, Vapour)
		0.22 mg/l (rat, F2) (OECD 416, Vapour)
		2.2 mg/l (rat) (OECD 416, Parents, Vapour)

· **Reproductive toxicity/Teratogenicity**

**100-42-5 styrene**

Inhalative	NOAEL (developmental toxicity)	2.6 mg/l (rat)
	NOAEL (teratogenicity)	2.6 mg/l (rat)
	LOAEL (maternally)	1.3 mg/l (rat)

## 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

**100-42-5 styrene**

EC10/96h	0.28 mg/l ( <i>Pseudokirchneriella subcapitata</i> ) (EPA OTS 797.1050)
EC50/0.5h	≈ 500 mg/l (activated sludge) (OECD 209)
EC50/48h	4.7 mg/l ( <i>daphnia magna</i> ) (OECD 202)
EC50/72h	4.9 mg/l ( <i>Pseudokirchneriella subcapitata</i> ) (EPA OTS 797.1050)
LC50/96h	4.02 mg/l ( <i>pimephales promelas</i> )
NOEC	1.01 mg/l ( <i>daphnia magna</i> ) (OECD-211 21d)

**67-56-1 methanol**

EC0	8000 mg/l ( <i>Scenedesmus quadricauda</i> ) (192h)
	6600 mg/l ( <i>pseudomonas putida</i> ) (16h)
EC50/48h	> 10000 mg/l ( <i>daphnia magna</i> )
LC50/96h	15400 mg/l ( <i>Lepomis macrochirus</i> )
	29400 mg/l ( <i>pimephales promelas</i> )

**136-52-7 cobalt bis(2-ethylhexanoate)**

EC50/72h	0.528 mg/l (algae)
LC50/96h	48 mg/l ( <i>pimephales promelas</i> )
NOEC (aqua chron.)	0.21 mg/l ( <i>pimephales promelas</i> ) (OECD, 34d)

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· **Persistence and degradability****100-42-5 styrene**

Biodegradation 70.9 % (activated sludge) (ISO DIN 9408, 28d, aerob)

**67-56-1 methanol**

Biodegradation 97 % (-) (OECD- 301D (20d))

**136-52-7 cobalt bis(2-ethylhexanoate)**

Biodegradation 60 % (-) (OECD Guideline 301 B, aerobic, 10d)

· **Behaviour in environmental systems:**· **Bioaccumulative potential****100-42-5 styrene**BCF 74 (-) (calculated)  
13.5 (fish)

log Kow 2.95 (-)

**136-52-7 cobalt bis(2-ethylhexanoate)**

BCF 156 (-)

· **Mobility in soil****100-42-5 styrene**

Koc 352 (-)

log Koc 2.55 (-)

· **Additional ecological information:**· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· **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 together with household garbage. Do not allow product to reach sewage system.

· **Waste disposal key:**

The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

· **European waste catalogue**

07 02 08\* other still bottoms and reaction residues

· **Uncleaned packaging:**· **Recommendation:** Disposal must be made according to official regulations.**14 Transport information**· **UN-Number**· **ADR, IMDG, IATA**

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· <b>UN proper shipping name</b>	
· <b>ADR</b>	1866 RESIN SOLUTION
· <b>IMDG, IATA</b>	RESIN SOLUTION
· <b>Transport hazard class(es)</b>	
· <b>ADR, IMDG, IATA</b>	
· <b>Class</b>	3 Flammable liquids.
· <b>Packing group</b>	
· <b>ADR, IMDG, IATA</b>	III
· <b>Special precautions for user</b>	Warning: Flammable liquids.
· <b>EMS Number:</b>	F-E,S-E
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	LQ7
· <b>Remarks:</b>	ADR 2.2.3.1.5

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **European regulations**
- **Directive 2004/42/EC 2004/42/IIB (b) (250) <250**
- **National regulations:**
- **Information about limitation of use:**  
Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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**
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H301 Toxic if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H361f Suspected of damaging fertility.
- H370 Causes damage to organs.

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- H372 Causes damage to organs through prolonged or repeated exposure. Route of exposure: Inhalative.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- R10 Flammable.
- R11 Highly flammable.
- R20 Harmful by inhalation.
- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
- R43 May cause sensitisation by skin contact.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R62 Possible risk of impaired fertility.
- R65 Harmful: may cause lung damage if swallowed.

· **Department issuing MSDS:** Abteilung Labor

· **Contact:** Frau S. Schaller

· **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 Organization

ADR: Accord européen sur le transport 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

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

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