

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

Printing date 27.04.2015

V - 1

Revision: 27.04.2015

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

- **1.1 Product identifier**
 - **Trade name:** CARSYSTEM KS-100 Unterbodenschutz Bitumen
 - **1.2 Relevant identified uses of the substance or mixture and uses advised against** Not determined
 - **Application of the substance / the mixture** Anticorrosion additive
 - **1.3 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
 - **1.4 Emergency telephone number:**
Gif tinformationszentrum (GIZ)-Nord, Goettingen, Deutschland
Phone: +49 (0)551 19240
-

Distributor in New Zealand
RA Johnstone & Co Ltd.
33 Ha Crescent Wiri, Auckland 2104
Ph: 09 25000 90
Fax: 09 25000 92
www.raj.co.nz
Emergency Telephone in New Zealand (24 hours)
National Poison Centre: 0800 POISON [764 766]

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

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GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

R10-52/53-66-67: Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

· **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.

Vapours of the product are heavier than air and may accumulate on the ground, in mines, drains or cellars with higher concentration.

Heightened risk of fire and danger of explosion at accumulation in lower-lying or closed rooms

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Has a narcotising effect.

· **Classification system:**

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

· **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**



GHS02

GHS07

GHS08

· **Signal word** Warning

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

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Solvent naphtha (petroleum), light arom.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

· **Hazard statements**

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P312 Call a POISON CENTER/doctor if you feel unwell.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.























· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

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

· **Dangerous components:**

CAS: 64742-82-1 EC number: 919-446-0 Reg.nr.: 01-2119458049-33	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)  Xn R48/20-65;  N R51/53 R10-66-67  Flam. Liq. 3, H226;  STOT RE 1, H372; Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  STOT SE 3, H336	5-<10%
CAS: 64742-95-6 EINECS: 265-199-0 Reg.nr.: 01-2119455851-35	Solvent naphtha (petroleum), light arom.  Xn R65;  Xi R37;  N R51/53 R10-66-67  Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  STOT SE 3, H335-H336	5-<10%
CAS: 64742-48-9 EC number: 919-857-5 Reg.nr.: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics  Xn R65 R10-66-67  Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  STOT SE 3, H336	5-<10%
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	< 1.0%

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

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

Immediately remove any clothing soiled by the product.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

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- **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.
- **After swallowing:**
Do NOT induce vomiting.
If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or 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.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Mouth respiratory protective device.
- **Additional information**
Cool endangered receptacles with water spray.
Remove undamaged containers from the 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**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Do not flush with water or aqueous cleansing agents
Dispose of the material collected according to regulations.
- **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 disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.

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Use only in well ventilated areas.

Prevent formation of aerosols.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· Information about fire - and explosion protection:

Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles: Store in a cool location.

· Information about storage in one common storage facility: Keep away from foodstuffs, beverages and feed.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

Keep container tightly sealed.

· 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.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

67-56-1 methanol

WEL (Great Britain) Short-term value: 333 mg/m³, 250 ppm
Long-term value: 266 mg/m³, 200 ppm
Sk

IOELV (EU) Long-term value: 260 mg/m³, 200 ppm
Skin

· DNELs

64742-82-1 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Oral	Long-term exposure - systemic effects	26 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	26 mg/kg bw/day (general population) 44 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	71 mg/m ³ (general population) 330 mg/m ³ (worker)

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	Long-term exposure - systemic effects	11 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	11 mg/kg bw/day (general population) 25 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	32 mg/m ³ (general population) 150 mg/m ³ (worker)

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Oral	Long-term exposure - systemic effects	125 mg/kg bw/day (general population)
Dermal	Long-term exposure - systemic effects	125 mg/kg bw/day (general population)

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<i>Inhalative</i>	<i>Long-term exposure - systemic effects</i>	208 mg/kg bw/day (worker) 900 mg/m ³ (general population) 871 mg/m ³ (worker)
67-56-1 methanol		
<i>Oral</i>	<i>Acute/short-term exposure - systemic effects</i>	8 mg/kg bw/day (general population)
	<i>Long-term exposure - systemic effects</i>	8 mg/kg bw/day (general population)
<i>Dermal</i>	<i>Acute/short-term exposure - systemic effects</i>	8 mg/kg bw/day (general population) 40 mg/kg bw/day (worker)
	<i>Long-term exposure - systemic effects</i>	8 mg/kg bw/day (general population) 40 mg/kg bw/day (worker)
<i>Inhalative</i>	<i>Acute/short-term exposure - local effects</i>	50 mg/m ³ (general population) 260 mg/m ³ (worker)
	<i>Acute/short-term exposure - systemic effects</i>	50 mg/m ³ (general population) 260 mg/m ³ (worker)
	<i>Long-term exposure - local effects</i>	50 mg/m ³ (general population) 260 mg/m ³ (worker)
	<i>Long-term exposure - systemic effects</i>	50 mg/m ³ (general population) 260 mg/m ³ (worker)

· PNECs

67-56-1 methanol

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

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

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

- Do not eat, drink, smoke or sniff while working.
- Immediately remove all soiled and contaminated clothing
- Store protective clothing separately.
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.

· Respiratory protection:

- Adhere to the workplace limit values and / or other threshold values.
- 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 AX

· Protection of hands:



Protective gloves

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

· **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.12 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**

Value for the permeation: Level ≤ 6 (≥ 480 min.)

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

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form:	Pasty
Colour:	Black
Odour:	Characteristic

· **pH-value:** Not determined

· **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	130 °C

· **Flash point:** 31 °C

· **Ignition temperature:** 200 °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:	0.6 Vol %
Upper:	7.0 Vol %

· **Vapour pressure at 20 °C:** 2 hPa

· **Density at 20 °C:** 1.28 g/cm³

· **Relative density** Not determined

· **Vapour density** Not determined

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· 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:	17000 mPas
Kinematic:	Not determined
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used according to specifications.
- **10.2 Chemical stability** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Fumes can combine with air to form an explosive mixture.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.
Carbon monoxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

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

64742-82-1 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Oral	LD 50	> 5000 mg/kg (rat) (OECD Guideline 401)
Dermal	LD50	> 3400 mg/kg (rabbit) (OECD Guideline 402)
Inhalative	LC 50 / 4h	> 13.1 mg/l (rat) (OECD Guideline 403)

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD 50	> 6800 mg/kg (rat)
Dermal	LD 50	> 3400 mg/kg (rabbit)
Inhalative	LC 50 / 4h	> 10.2 mg/l (rat)

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Oral	LD 50	> 5000 mg/kg (rat) (OECD 401)
Dermal	LD 50	> 5000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50 /4h	> 4951 mg/m ³ (rat) (OECD 403)

67-56-1 methanol

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

- **Primary irritant effect:**
- **on the skin:** Repeated exposure may cause skin dryness or cracking.
- **on the eye:** No irritating effect.

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- **Subacute to chronic toxicity:** No further relevant information available.
- **Additional toxicological information:**
May cause damage to organs through prolonged or repeated exposure.
- **Sensitisation** No sensitising effects known.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
No further relevant information available.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

64742-82-1 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

EC50/96h	0.58-1.2 mg/l (algae) (OECD Guideline 201)
EL50/48h	10-22 mg/l (daphnia magna) (OECD Guideline 202)
EL50/72h	4.6-10 mg/l (Pseudokirchneriella subcapitata) (OECD Guideline 201)
LL50/96h	10-30 mg/l (oncorhynchus mykiss) (OECD Guideline 203)
LOEC	0.2-0.83 mg/l (crustacean) (OECD Guideline 211, 21d)
NOEC	0.16 mg/l (algae) (OECD Guideline 201, 96h)
NOEC (aqua chron.)	0.1-0.37 mg/l (crustacean) (OECD Guideline 211, 21d)
	0.372 mg/l (daphnia magna) (OECD Guideline 211, 21d, immobilisation)
NOELR	0.22-1 mg/l (Pseudokirchneriella subcapitata) (OECD Guideline 201, 72h)
	0.3 mg/l (oncorhynchus mykiss) (OECD Guideline 203, 96h)
NOELR (aqua chron.)	0.13 mg/l (oncorhynchus mykiss) (28d)

64742-95-6 Solvent naphtha (petroleum), light arom.

EC50/48h	6.14 mg/l (daphnia magna)
EL50/72h	56 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LC50/96h	9.22 mg/l (oncorhynchus mykiss)
LL50/96h	10 mg/l (oncorhynchus mykiss) (OECD 203)
NOELR (aqua chron.)	2.6 mg/l (daphnia magna) (OECD 211, 21d)
	2.6 mg/l (pimephales promelas) (OECD 204, 14d)

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

EC0/48h	> 1000 mg/l (daphnia magna)
EL50/72h	> 1000 mg/l (Pseudokirchneriella subcapitata)
LL50/96h	> 1000 mg/l (oncorhynchus mykiss)
NOELR	> 100 mg/l (Pseudokirchneriella subcapitata)

67-56-1 methanol

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

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· 12.2 Persistence and degradability

64742-82-1 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Biodegradation 74.7 % (-) (OECD Guideline 301 F, 28d)

64742-95-6 Solvent naphtha (petroleum), light arom.

Biodegradation 74.3 % (-) (ISO/DIS 14593, 28d)

64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Biodegradation 80 % (-) (28d)

67-56-1 methanol

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

· 12.3 Bioaccumulative potential

64742-82-1 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

log Kow 2-7 (-)

64742-95-6 Solvent naphtha (petroleum), light arom.

BCF 10 - 2500 (lit.) (calculated)

log Kow > 3 (-)

67-56-1 methanol

BCF < 10 (fish)

· Behaviour in environmental systems:

· 12.4 Mobility in soil

64742-95-6 Solvent naphtha (petroleum), light arom.

Koc 60.7 - 229.2 (lit.) (calculated value)

log Koc 1.783 - 2.36 (lit.) (calculated value)

· Ecotoxicological effects:

· Remark: Harmful to fish

· 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.

Harmful to aquatic organisms

· 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Disposal must be made according to official regulations.

· 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

08 01 11* waste paint and varnish containing organic solvents or other dangerous substances

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number · IATA	UN1139
· 14.2 UN proper shipping name · ADR · IATA	1139 COATING SOLUTION COATING SOLUTION
· 14.3 Transport hazard class(es) · IATA	
	
· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Remarks:	ADR 2.2.3.1.5 > 450 l: 3 F1, III
· IMDG · Remarks:	IMDG-Code 2.3.2.5 > 30 l: 3, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **European regulations**
- **Directive 2004/42/EC 2004/42/IIB (e) (840) <330**
- **National regulations:** The HSNO Approval Number for this Group Standard is HSR002662.
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.

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· **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**

- 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.
 H331 Toxic if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H370 Causes damage to organs.
 H372 Causes damage to the central nervous system through prolonged or repeated exposure.
 H411 Toxic to aquatic life with long lasting effects.
- R10 Flammable.
 R11 Highly flammable.
 R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
 R37 Irritating to respiratory system.
 R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
 R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R65 Harmful: may cause lung damage if swallowed.
 R66 Repeated exposure may cause skin dryness or cracking.
 R67 Vapours may cause drowsiness and dizziness.

· **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 Organisation
 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
 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 (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 Flam. Liq. 2: Flammable liquids, Hazard Category 2
 Flam. Liq. 3: Flammable liquids, Hazard Category 3
 Acute Tox. 3: Acute toxicity, Hazard Category 3
 STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1

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Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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