

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

· Product identifier

- Trade name: **Spider Black**
- Article number: 10963
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Application of the substance / the preparation Maintenance product

· Details of the supplier of the safety data sheet

- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg
Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de
- Further information obtainable from: Laboratory
Dieter Zimmermann
@mail_D.Zimmermann@akemi.de
- Emergency telephone number: Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.

2 Hazards identification

· Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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



Xn; Harmful

R65: Harmful: may cause lung damage if swallowed.



Xi; Irritant

R38: Irritating to skin.

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F; Highly flammable

R11: Highly flammable.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67: Vapours may cause drowsiness and dizziness.

· Information concerning particular hazards for human and environment:

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

Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.

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.

Has a narcotizing effect.

· 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 Regulation (EC) No 1272/2008

· Hazard pictograms

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



GHS02 GHS07 GHS08 GHS09

· Signal word

Danger

· Hazard-determining components of labelling:

cyclohexane

Kohlenwasserstoff, C6-C7, Isoalkane, Cycloalkane, <5% n-Hexan

Kohlenwasserstoffe, C7-C9, n-Alkane, Isoalkane, Cycloalkane

· Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H411 Toxic 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.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing mist/vapours/spray.

P273 Avoid release to the environment.

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

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

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

P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P405 Store locked up.

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

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P501

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

CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3	1-methoxy-2-propanol R10-67 Flam. Liq. 3, H226; STOT SE 3, H336	25-50%
CAS: 110-82-7 EINECS: 203-806-2 Index number: 601-017-00-1	cyclohexane Xn R65; Xi R38; F R11; N R50/53 R67 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	12.5-25%
CAS: 64742-49-0 EC number: 926-605-8	Kohlenwasserstoff, C6-C7, Isoalkane, Cycloalkane, <5% n-Hexan Xn R65; F R11; N R51/53 R66-67 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	12.5-25%
CAS: 64742-49-0 EC number: 920-750-0	Kohlenwasserstoffe, C7-C9, n-Alkane, Isoalkane, Cycloalkane Xn R65; F R11; N R51/53 R66-67 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	12.5-25%
CAS: 8002-74-2 EINECS: 232-315-6	Paraffin waxes and Hydrocarbon waxes substance with a Community workplace exposure limit	<12.5%
CAS: 64742-82-1 EC number: 919-164-8	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) Xn R65 R52/53-66 Asp. Tox. 1, H304; Acute Tox. 4, H332; Aquatic Chronic 3, H412	<12.5%
CAS: 110-54-3 EINECS: 203-777-6 Index number: 601-037-00-0	n-hexane Xn R48/20-62-65; Xi R38; F R11; N R51/53 R67 Repr. Cat. 3 Flam. Liq. 2, H225; Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	1-5%
CAS: 1589-47-5 EINECS: 216-455-5 Index number: 603-106-00-0	2-methoxypropanol T Repr. Cat. 2 R61; Xi R37/38-41 R10 Flam. Liq. 3, H226; Repr. 1B, H360D; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335	<1%

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: Immediately remove any clothing soiled by the product.

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|--|--|
| <ul style="list-style-type: none"> · <u>After inhalation:</u> · <u>After skin contact:</u> · <u>After eye contact:</u> · <u>After swallowing:</u> · <u>Information for doctor:</u> · <u>Most important symptoms and effects, both acute and delayed</u> · <u>Hazards</u> · <u>Indication of any immediate medical attention and special treatment needed</u> | <p>Take affected persons out into the fresh air.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Position and transport stably in side position.
Supply fresh air; consult doctor in case of complaints.
In case of unconsciousness place patient stably in side position for transportation.</p> <p>Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.</p> <p>Rinse opened eye for several minutes under running water. Then consult a doctor.</p> <p>Do not induce vomiting; call for medical help immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.</p> <p>Symptoms in intoxication with (aromatic) hydrocarbons (dosis letalis about 30 g)
a) In acute intoxication: headache, dizziness, euphoria, gastro-intestinal dysfunction, state of excitement, coma.
b) In chronic intoxication: myelotoxic damage, fatigue, dizziness, emaciation, cardiac palpitation after physical exercise, leucopenia, anemia, leukosis.
Therapy in hydrocarbons intoxication: In case of inhalation provision of fresh air; in case of peroral intake administration of Carbo medicinalis; only after intubation conduct of gastrolavage in application of Carbo medicinalis; in case of cramps administration of Diazepam 20 mg intravenously.</p> <p>Breathing difficulty
Headache
Dizziness
Dizziness
Gastric or intestinal disorders
Nausea
Danger of impaired breathing.</p> <p>If swallowed, gastric irrigation with added, activated carbon.</p> |
|--|--|

5 Firefighting measures

- **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
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **Advice for firefighters**
- Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.
Do not inhale explosion gases or combustion gases.
Cool endangered receptacles with water spray.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

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* 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.

· **Environmental precautions:**

Use respiratory protective device against the effects of fumes/dust/aerosol.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow product to reach sewage system or any water course.
Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Dispose of the material collected according to regulations.

· **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.
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Use only in well ventilated areas.

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

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Protect from heat.
Highly volatile, flammable constituents are released during processing.

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

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.
Store only in the original receptacle.
Prevent any seepage into the ground.

· **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.
Keep container tightly sealed.
Protect from heat and direct sunlight.
Store receptacle in a well ventilated area.

· **Specific end use(s)**

No further relevant information available.

* 8 Exposure controls/personal protection

· **Additional information about design of technical facilities:**

No further data; see item 7.

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· Control parameters· Ingredients with limit values that require monitoring at the workplace:**107-98-2 1-methoxy-2-propanol**

WEL	Short-term value: 560 mg/m ³ , 150 ppm
	Long-term value: 375 mg/m ³ , 100 ppm
	Sk

110-82-7 cyclohexane

WEL	Short-term value: 1050 mg/m ³ , 300 ppm
	Long-term value: 350 mg/m ³ , 100 ppm

8002-74-2 Paraffin waxes and Hydrocarbon waxes

WEL	Short-term value: 6 mg/m ³
	Long-term value: 2 mg/m ³

110-54-3 n-hexane

WEL	Long-term value: 72 mg/m ³ , 20 ppm
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· Additional information: The lists valid during the making were used as basis.**· Exposure controls**· Personal protective equipment:· General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

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

Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

· Respiratory protection:

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.

Short term filter device:

Filter AX

· Protection of hands:

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

After use of gloves apply skin-cleaning agents and skin cosmetics.

Akemi skin protection agent recommendation for preventive skin shelter without use of protective gloves:

STOKODERM (<http://www.stoko.com>)

Akemi skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

STOKO EMULSION (<http://www.stoko.com>)

Akemi skin protection recommendation for skin cleaning after product handling:

FRAPANTOL (<http://www.stoko.com>)

Akemi skin protection agent recommendation for skin aftercare:

STOKO VITAN (<http://www.stoko.com>)

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH,

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Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).



Protective gloves

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

Fluorocarbon rubber (Viton)
Nitrile rubber, NBR

· Penetration time of glove material

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.
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Value for the permeation: Level ≤ 6, 480 min

· For the permanent contact gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)
Vitoject (KCL, Art No. 890)
Nitrile rubber, NBR
Camatril (KCL, Art No. 730, 731, 732, 733)

· As protection from splashes gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)
Vitoject (KCL, Art No. 890)
Nitrile rubber, NBR
Camatril (KCL, 730, 731, 732, 733)

· Not suitable are gloves made of the following materials:

Leather gloves
Strong material 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:	Black
Odour:	Petrol-like

· pH-value: Not applicable

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	316 °C

· Flash point: -18 °C

· Ignition temperature: 260 °C

· Self-igniting: Product is not selfigniting.

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

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· <u>Explosion limits:</u>	
Lower:	1.2 Vol %
Upper:	8.3 Vol %
· <u>Vapour pressure at 20 °C:</u>	104 hPa
· <u>Density at 20 °C:</u>	0.78 g/cm ³
· <u>Solubility in / Miscibility with water:</u>	Not miscible or difficult to mix.
· <u>Viscosity:</u>	
Dynamic:	Not determined.
Kinematic at 20 °C:	11 s (DIN 53211/4)
· <u>Solvent content:</u>	
Organic solvents:	54.4 %
· Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity	
· Chemical stability	
· <u>Thermal decomposition / conditions to be avoided:</u>	No decomposition if used according to specifications. No decomposition if used and stored according to specifications.
· Possibility of hazardous reactions	Reacts with strong oxidizing agents.
· Conditions to avoid	No further relevant information available.
· Incompatible materials:	No further relevant information available.
· Hazardous decomposition products:	Carbon monoxide and carbon dioxide Flammable gases/vapours

11 Toxicological information· **Information on toxicological effects**· Acute toxicity:· LD/LC50 values relevant for classification:**110-82-7 cyclohexane**

Oral	LD50	12705 mg/kg (rat)
Dermal	LD50	>18000 mg/kg (rabbit)

64742-82-1 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Oral	LD50	>5000 mg/kg (rat) (OECD-Prüfrichtlinie 401)
Dermal	LD50	>2920 mg/kg (rabbit) (OECD-Prüfrichtlinie 402)
Inhalative	LC50/4 h	>13.1 mg/l (rat)

110-54-3 n-hexane

Oral	LD50	28700 mg/kg (rat)
Dermal	LD50	3295 mg/kg (rabbit)

· Primary irritant effect:

· <u>on the skin:</u>	Irritant to skin and mucous membranes.
· <u>on the eye:</u>	No irritating effect.
· <u>Sensitization:</u>	No sensitizing effects known.

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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

12 Ecological information

· **Toxicity**

· Aquatic toxicity:

64742-82-1 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

EL50/48h	10-22 mg/l (daphnia magna)
EL50/72h	50-100 mg/l (Pseudokirchneriella subcapitata)
LL50/96h	10-100 mg/l (Oncorhynchus mykiss)
NOEC/21d	0.097 mg/l (daphnia magna)
NOELR/21d	0.28 mg/l (daphnia magna)
NOELR/28d	0.091 mg/l (Oncorhynchus mykiss)
NOELR/72h	3 mg/l (Pseudokirchneriella subcapitata)

· **Persistence and degradability** No further relevant information available.

· **Behaviour in environmental systems:**

· Bioaccumulative potential No further relevant information available.

· Mobility in soil No further relevant information available.

· **Ecotoxicological effects:**

· Remark: Toxic for fish

· **Additional ecological information:**

· General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

· **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.

· European waste catalogue

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
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16 03 00	off-specification batches and unused products
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16 03 05*	organic wastes containing dangerous substances
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· **Uncleaned packaging:**

· Recommendation: Disposal must be made according to official regulations.
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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· Recommended cleansing agents: Alcohol

14 Transport information· **UN-Number**

· ADR, IMDG, IATA UN3295

· **UN proper shipping name**

· ADR 3295 HYDROCARBONS, LIQUID, N.O.S., special provision 640D,
ENVIRONMENTALLY HAZARDOUS

· IMDG HYDROCARBONS, LIQUID, N.O.S., MARINE POLLUTANT

· IATA HYDROCARBONS, LIQUID, N.O.S.

· **Transport hazard class(es)**

· ADR



· Class 3 (F1) Flammable liquids.

· Label 3

· IMDG



· Class 3 Flammable liquids.

· Label 3

· IATA



· Class 3 Flammable liquids.

· Label 3

· **Packing group**

· ADR, IMDG, IATA II

· **Environmental hazards:**

· Marine pollutant: Product contains environmentally hazardous substances:
Symbol (fish and tree)

· Special marking (ADR): Symbol (fish and tree)

· **Special precautions for user**

Warning: Flammable liquids.

· Danger code (Kemler): 33

· EMS Number: F-E,S-D

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· ADR

· Limited quantities (LQ) 1L

· Transport category 2

· Tunnel restriction code D/E

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GB

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UN "Model Regulation":	UN3295, HYDROCARBONS, LIQUID, N.O.S., special provision 640D, ENVIRONMENTALLY HAZARDOUS, 3, II
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* 15 Regulatory information

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

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· VOC EU 421.8 g/l

· 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.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H360D May damage the unborn child.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

R10 Flammable.
R11 Highly flammable.
R37/38 Irritating to respiratory system and skin.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
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.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61 May cause harm to the unborn child.
R62 Possible risk of impaired fertility.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

· Recommended restriction of use refer to Technical Data Sheet (TDS)

· Department issuing MSDS: Laboratory

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- Contact:

Elke Hake
Fon ++49 (0)911 64296-59
@mail E.Hake@akemi.de

- 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
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

- * Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC