

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.07.2018

Version number 7

Revision: 24.07.2018

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

1.1 Product identifier

Trade name: **Stain Repellent Super**

Article number: 10949, 10950, 10951

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

Protective impregnation

1.3 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

1.4 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.
+44 (171) 635 91 91
National Poison Inform. Centre
Medical Toxicology Unit
Avalonley Road
London SE14 5ER

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

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.

Response:

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Store in a well-ventilated place. Keep cool.
Store locked up.

Storage:

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

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

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· Hazard pictograms

GHS02 GHS08 GHS09

· Signal word

Danger

· Hazard-determining components of labelling:

2,2,4,6,6-pentamethylheptan
Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics
Naphtha (petroleum), heavy alkylate
C11-15-Isoalkanes

· Hazard statements

H226 Flammable liquid and vapour.
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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331 Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
P403+P235 Store in a well-ventilated place. Keep cool.
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: 13475-82-6 EINECS: 236-757-0 Reg.nr.: 01-2119490725-29	2,2,4,6,6-pentamethylheptan Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 4, H413	25-50%
EC number: 923-037-2 Reg.nr.: 01-2119471991-29-xxxx	Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	25-50%
CAS: 64741-65-7 EINECS: 265-067-2 Index number: 649-275-00-4 Reg.nr.: 01-2119472146-39	Naphtha (petroleum), heavy alkylate Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 4, H413	<10%

· Regulation (EC) No 648/2004 on detergents / Labelling for contents

aliphatic hydrocarbons

≥30%

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· 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.
Take affected persons out into the fresh air.
Position and transport stably in side position.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- 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; call for medical help immediately.

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

Headache
Breathing difficulty
Profuse sweating
Dizziness
Dizziness
Nausea

- Information for doctor: 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.

· Hazards

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

If swallowed, gastric irrigation with added, activated carbon.
If swallowed or in case of vomiting, danger of entering the lungs.

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.
In case of fire, the following can be released:
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded.

· 5.3 Advice for firefighters

- Protective equipment: Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Wear fully protective suit.
- Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Use respiratory protective device against the effects of fumes/dust/aerosol.
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).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

* **7.1 Precautions for safe handling**

Keep receptacles tightly sealed.
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.
Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

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

Information about storage in one common storage facility:

Store away from oxidising agents.
Store away from foodstuffs.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.
Keep container tightly sealed.
Store receptacle in a well ventilated area.

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information:

The lists valid during the making were used as basis.

· **8.2 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.

Wash hands before breaks and at the end of work.

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

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

Apply solvent resistant skin cream before starting work.

Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

· Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

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:

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

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

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

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

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

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

Skin protection recommendation for skin cleaning after product handling:

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

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, 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)

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.

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- Penetration time of glove material 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 \leq 3, 120 min
- For the permanent contact gloves made of the following materials are suitable: Fluorocarbon rubber (Viton)
Vitoject (KCL, Art_No. 890)
- As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
Camatril (KCL, 730, 731, 732, 733)
Chloroprene rubber, CR
Camapren (KCL, Art_No. 720, 722, 726)
Butyl rubber, BR
Butoject (KCL, Art_No. 897, 898)
Fluorocarbon rubber (Viton)
Vitoject (KCL, Art_No. 890)
- Not suitable are gloves made of the following materials: Natural rubber, NR
Leather gloves
Strong material gloves
- 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:**

<u>Form:</u>	Fluid
<u>Colour:</u>	Colourless
<u>Odour:</u>	Characteristic

· pH-value: Not applicable**· Change in condition**

<u>Melting point/freezing point:</u>	Undetermined.
<u>Initial boiling point and boiling range:</u>	180 °C

· Flash point: 41 °C· Ignition temperature: 354 °C· Auto-ignition temperature: Product is not selfigniting.· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.**· Explosion limits:**

<u>Lower:</u>	0.6 Vol %
<u>Upper:</u>	7 Vol %

· Vapour pressure at 20 °C: 1 hPa· Density at 20 °C: 0.77 g/cm³· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

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- | | |
|--------------------------------|--|
| <u>· Viscosity:</u> | |
| Dynamic: | Not determined. |
| Kinematic at 20 °C: | 11 s (DIN 53211/4) |
| <u>· Solvent content:</u> | |
| Organic solvents: | 90.9 % |
| <u>· 9.2 Other information</u> | No further relevant information available. |

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions Reacts with strong oxidising agents.
Forms flammable gases/fumes.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.

<u>· LD/LC50 values relevant for classification:</u>
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ATE (Acute Toxicity Estimates)

Inhalative	LC50/4 h	>113 mg/l (rat)
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13475-82-6 2,2,4,6,6-pentamethylheptan

Oral	LD50	>5,000 mg/kg (rat)
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Inhalative	LC50/8h	>5 ppm (rat)
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Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics

Oral	LD50	>5,000 mg/kg (rat)
------	------	--------------------

Inhalative	LC50/8h	>5 mg/l (rat)
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64741-65-7 Naphtha (petroleum), heavy alkylate

Oral	LD50	>6,000 mg/kg (rat)
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Dermal	LD50	>3,000 mg/kg (rbt)
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Inhalative	LC50/4 h	>7.8 mg/l (rat)
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- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard May be fatal if swallowed and enters airways.

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SECTION 12: Ecological information**12.1 Toxicity**· Aquatic toxicity:**13475-82-6 2,2,4,6,6-pentamethylheptan**

IC50/72h >1,000 mg/l (Pseudokirchneriella subcapitata)

EC50/48h >1,000 mg/l (daphnia magna)

LC50/96h >1,000 mg/l (Oncorhynchus mykiss)

Hydrocarbons, C10-C12, Isoalkanes, <2% aromatics

EL0/48h 1,000 mg/l (daphnia magna)

EL0/72h 1,000 mg/l (Pseudokirchneriella subcapitata)

LL0/96h 1,000 mg/l (Oncorhynchus mykiss)

NOELR/72h 1,000 mg/l (Pseudokirchneriella subcapitata)

NOELR/21d <1 mg/l (daphnia magna)

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.

· Additional ecological information:· General notes:Do not allow product to reach ground water, water course or sewage system.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water**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

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

20 00 00 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

20 01 00 separately collected fractions (except 15 01)

20 01 13* solvents

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

Alcohol

SECTION 14: Transport information**14.1 UN-Number**· ADR, IMDG, IATA

UN3295

14.2 UN proper shipping name· ADR

3295 HYDROCARBONS, LIQUID, N.O.S., ENVIRONMENTALLY HAZARDOUS

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<ul style="list-style-type: none"> · <u>IMDG</u> · <u>IATA</u> 	<p>HYDROCARBONS, LIQUID, N.O.S., MARINE POLLUTANT HYDROCARBONS, LIQUID, N.O.S.</p>
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · <u>ADR</u> 	
 	
<ul style="list-style-type: none"> · <u>Class</u> · <u>Label</u> 	<p>3 (F1) Flammable liquids. 3</p>
<ul style="list-style-type: none"> · <u>IMDG</u> 	
 	
<ul style="list-style-type: none"> · <u>Class</u> · <u>Label</u> 	<p>3 Flammable liquids. 3</p>
<ul style="list-style-type: none"> · <u>IATA</u> 	
	
<ul style="list-style-type: none"> · <u>Class</u> · <u>Label</u> 	<p>3 Flammable liquids. 3</p>
<ul style="list-style-type: none"> · 14.4 Packing group · <u>ADR, IMDG, IATA</u> 	<p>III</p>
<ul style="list-style-type: none"> · 14.5 Environmental hazards: · <u>Marine pollutant:</u> · <u>Special marking (ADR):</u> 	<p>Product contains environmentally hazardous substances: Symbol (fish and tree) Symbol (fish and tree)</p>
<ul style="list-style-type: none"> · 14.6 Special precautions for user · <u>Danger code (Kemler):</u> · <u>EMS Number:</u> · <u>Stowage Category</u> 	<p>Warning: Flammable liquids. 30 F-E,S-D A</p>
<ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	<p>Not applicable.</p>
<ul style="list-style-type: none"> · <u>Transport/Additional information:</u> 	
<ul style="list-style-type: none"> · <u>ADR</u> · <u>Limited quantities (LQ)</u> · <u>Excepted quantities (EQ)</u> 	<p>5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml</p>
<ul style="list-style-type: none"> · <u>Transport category</u> · <u>Tunnel restriction code</u> 	<p>3 D/E</p>
<ul style="list-style-type: none"> · <u>IMDG</u> · <u>Limited quantities (LQ)</u> · <u>Excepted quantities (EQ)</u> 	<p>5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml</p>

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· <u>UN "Model Regulation":</u>	UN 3295 HYDROCARBONS, LIQUID, N.O.S., 3, III, ENVIRONMENTALLY HAZARDOUS
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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
 - Named dangerous substances - ANNEX I
 - Seveso category
 - Qualifying quantity (tonnes) for the application of lower-tier requirements
 - Qualifying quantity (tonnes) for the application of upper-tier requirements
 - REGULATION (EC) No 1907/2006 ANNEX XVII
 - National regulations:
 - Waterhazard class:
 - VOC EU
 - **15.2 Chemical safety assessment:**
- | | |
|--|--|
| | None of the ingredients is listed. |
| | E2 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS |
| | 200 t |
| | 500 t |
| | Conditions of restriction: 3, 40 |
| | Water hazard class 1 (Self-assessment): slightly hazardous for water.
696.4 g/l |
| | 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
 - Recommended restriction of use
 - Department issuing SDS:
 - Contact:
 - Abbreviations and acronyms:
 - * Data compared to the previous version altered.
- | | |
|--|---|
| | H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life. |
| | refer to Technical Data Sheet (TDS) |
| | Laboratory
Dieter Zimmermann |
| | 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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4 |
| | Adaptation in accordance with REACH directive 1907/2006/EC |