

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 20.02.2026

Version number 17 (replaces version 16)

Revision: 20.02.2026

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

1.1 Product identifier

Trade name: **Ceramic Grease Spray**

Article number: 88020

UFI: AP8K-4NKR-358F-T6AV

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

Grease

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.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Storage: Store in a well-ventilated place. Keep cool.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Store locked up.

2.2 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

Signal word

Danger

Hazard-determining components of labelling:

Kohlenwasserstoffe, C7, n-Alkane, Isoalkane, Cycloalkane

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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· <u>Precautionary statements</u>	<p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p> <p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P102 Keep out of reach of children.</p> <p>P103 Read carefully and follow all instructions.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P211 Do not spray on an open flame or other ignition source.</p> <p>P251 Do not pierce or burn, even after use.</p> <p>P260 Do not breathe spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves / eye protection.</p> <p>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.</p> <p>P331 Do NOT induce vomiting.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.</p> <p>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
· <u>Additional information:</u>	Buildup of explosive mixtures possible without sufficient ventilation.
· 2.3 Other hazards	
· <u>Results of PBT and vPvB assessment</u>	
· <u>PBT:</u>	Not applicable
· <u>vPvB:</u>	Not applicable

SECTION 3: Composition/information on ingredients· **3.2 Mixtures**

· Description: Mixture: consisting of the following components.
Active substance with propellant

· Dangerous components:

CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane, pure Flam. Gas 1A, H220 Press. Gas (Comp.), H280	25-50%
CAS: 64742-49-0 EC number: 927-510-4 Reg.nr.: 01-2119475515-33	Kohlenwasserstoffe, C7, n-Alkane, Isoalkane, Cycloalkane Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336 EUH066	12.5-25%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220 Press. Gas (Comp.), H280	<10%

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

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SECTION 4: First aid measures**4.1 Description of first aid measures**

- General information: Take affected persons out into the fresh air.
Position and transport stably in side position.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.
- 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

Breathing difficulty
Headache
Dizziness
Dizziness
Coughing
Profuse sweating
Nausea
Danger of impaired breathing.

4.3 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.

5.2 Special hazards arising from the substance or mixture

Water with full jet

5.3 Advice for firefighters

In case of fire, the following can be released:
Carbon monoxide (CO)
Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

- Protective equipment: Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

6.4 Reference to other sections

See Section 7 for information on safe handling.

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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 away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.

Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Store in a cool location.
Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility:

VCI-Konzept für die Zusammenlagerung von Chemikalien beachten.
Store away from foodstuffs.

Further information about storage conditions:

Protect from frost.
Keep container tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

Storage class:

2 B

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection**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.

DNELs**64742-49-0 Kohlenwasserstoffe, C7, n-Alkane, Isoalkane, Cycloalkane**

Oral	DNEL (Langzeit-wiederholt)	149 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	300 mg/kg bw/day (ARB)
		149 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	2,085 mg/m ³ Air (ARB)
		477 mg/m ³ Air (BEV)

PNECs**64742-49-0 Kohlenwasserstoffe, C7, n-Alkane, Isoalkane, Cycloalkane**

PNEC (wässrig)	0.096 mg/l (MW)
	0.096 mg/l (SW)
PNEC (fest)	0.53 mg/kg Trockengew (BO)
	2.5 mg/kg Trockengew (MWS)
	2.5 mg/kg Trockengew (SWS)

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- Additional information: The lists valid during the making were used as basis.
 - **8.2 Exposure controls**
 - Appropriate engineering controls No further data; see section 7.
 - Individual protection measures, such as personal protective equipment
 - General protective and hygienic measures:
 - Do not eat, drink, smoke or sniff while working.
 - Use skin protection cream for skin protection.
 - Clean skin thoroughly immediately after handling the product.
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing
 - Wash hands before breaks and at the end of work.
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the skin.
 - Avoid contact with the eyes and skin.
 - 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.
Filter A/P2
Filter AX
 - Hand protection Preventive skin protection by use of skin-protecting agents is recommended.
After use of gloves apply skin-cleaning agents and skin cosmetics.
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>).
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Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves Butyl rubber, BR
Chloroprene rubber, CR
Nitrile rubber, NBR
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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - For the permanent contact gloves made of the following materials are suitable: Butyl rubber, BR

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- As protection from splashes gloves made of the following materials are suitable:
 - Butoject (KCL, Art_No. 897, 898)
 - Chloroprene rubber, CR
 - Combi-Latex (KCL, Art_No. 395)
 - Butoject (KCL, Art_No. 897, 898)
 - Butyl rubber, BR
- Not suitable are gloves made of the following materials:
 - Neoprene gloves
 - Leather gloves
 - Strong material gloves
- Eye/face protection



Tightly sealed goggles
- Body protection:
 - Use protective suit.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- General Information
- Colour: Light grey
- Odour: Specific type
- Odour threshold: Not determined
- Melting point/freezing point: Undetermined
- Boiling point or initial boiling point and boiling range -44.5 °C
- Flammability Not applicable
- Lower and upper explosion limit
- Lower: 1.5 Vol %
- Upper: 8.5 Vol %
- Flash point: -97 °C
- Auto-ignition temperature: 365 °C
- Decomposition temperature: Not determined
- pH Not determined
- Viscosity: Not applicable
- Kinematic viscosity Not determined
- Dynamic: Not determined
- Solubility
- water: Not miscible or difficult to mix.
- Partition coefficient n-octanol/water (log value) Not determined
- Vapour pressure at 20 °C: 2,100 hPa
- Density and/or relative density
- Density at 20 °C: 0.69 g/cm³
- Relative density Not determined
- Vapour density Not determined

9.2 Other information

- Appearance:
- Form: Aerosol
- Important information on protection of health and environment, and on safety.
- Ignition temperature: Product is not selfigniting.
- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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· Solvent content:	
· Organic solvents:	71.1 %
· Solids content:	23.3 %
· Change in condition	
· Evaporation rate	Not applicable.

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Extremely flammable aerosol. Pressurised container: May burst if heated.
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

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.
· 10.3 Possibility of hazardous reactions	No dangerous reactions known.
· 10.4 Conditions to avoid	No further relevant information available.
· 10.5 Incompatible materials:	No further relevant information available.
· 10.6 Hazardous decomposition products:	No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008	
· Acute toxicity	Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

106-97-8 butane, pure

Inhalative LC50/4 h 658 mg/l (rat)

64742-49-0 Kohlenwasserstoffe, C7, n-Alkane, Isoalkane, Cycloalkane

Oral	LD50	>5,840 mg/kg (rat)
Dermal	LD50	2,800-3,100 mg/kg (rabbit)
		>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>23.3 mg/l (rat)

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74-98-6 propane

Inhalative LC50/4 h >20 mg/l (rat)

- Primary irritant effect: Causes skin irritation.
- Skin corrosion/irritation Causes serious eye irritation.
- 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.
- 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 Based on available data, the classification criteria are not met.

· **11.2 Information on other hazards**

-
- Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information· **12.1 Toxicity**

-
- Aquatic toxicity:

64742-49-0 Kohlenwasserstoffe, C7, n-Alkane, Isoalkane, Cycloalkane

LC50	35-37 mg/l (piscis)
EC50/48h	3 mg/l (daphnia magna)
EL50/72h	10-30 mg/l (algae)
NOELR/72h	10 mg/l (Pseudokirchneriella subcapitata)
NOEC/21d	0.17 mg/l (daphnia magna)
EC50/72h	10-30 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	>13.4 mg/l (Oncorhynchus mykiss)

- **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.
- **12.5 Results of PBT and vPvB assessment**
- PBT: Not applicable
- vPvB: Not applicable
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse 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.
Toxic for aquatic organisms
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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.

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

SECTION 14: Transport information· **14.1 UN number or ID number**

· ADR, IMDG, IATA UN1950

· **14.2 UN proper shipping name**

· ADR 1950 AEROSOLS
 · IMDG AEROSOLS
 · IATA AEROSOLS, flammable

· **14.3 Transport hazard class(es)**

· ADR



· Class 2 5F Gases.
 · Label 2.1

· IMDG, IATA



· Class 2.1 Gases.
 · Label 2.1

· **14.4 Packing group**

· ADR, IMDG, IATA Void

· **14.5 Environmental hazards:**

· Marine pollutant: Yes

· **14.6 Special precautions for user**

· Hazard identification number (Kemler code): -
 · EMS Number: F-D,S-U
 · Stowage Code SW1 Protected from sources of heat.
 SW22 For AEROSOLS with a maximum capacity of 1 litre:
 Category A. For AEROSOLS with a capacity above 1 litre:
 Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
 · Segregation Code SG69 For AEROSOLS with a maximum capacity of 1 litre:
 Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.
 For AEROSOLS with a capacity above 1 litre:
 Segregation as for the appropriate subdivision of class 2.
 For WASTE AEROSOLS:
 Segregation as for the appropriate subdivision of class 2.

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· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable

· Transport/Additional information:

· ADR

· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

· Transport category

2

· Tunnel restriction code

D

· IMDG

· Limited quantities (LQ)

1L

· Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

· UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

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

None of the ingredients is listed.

· Seveso category

P3a FLAMMABLE AEROSOLS

· Qualifying quantity (tonnes) for the application of lower-tier requirements

150 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements

500 t

· REGULATION (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

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

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· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 490.6 g/l· **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.

· Department issuing SDS:

Laboratory

· Contact:

Elke Hake

Fon ++49 (0)911 64296-59

@mail E.Hake@akemi.de

25.06.2024

· Date of previous version:· Version number of previous version:

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· 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 relatif au transport international 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

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Flam. Gas 1A: Flammable gases – Category 1A

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – 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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3