

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.08.2018

Version number 8

Revision: 14.08.2018

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

1.1 Product identifier

Trade name: **Undercoating Bitumen Brushwork**

Article number: 90012, 90013, 90020, 90027

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 coating

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

STOT RE 2 H373 May cause damage to the central nervous system through prolonged or repeated exposure.



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

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

Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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.

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

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 GHS07 GHS08

· Signal word

Warning

· Hazard-determining components of labelling:· Hazard statements

Naphtha (petroleum), hydrodesulfurized heavy
 H226 Flammable liquid and vapour.
 H336 May cause drowsiness or dizziness.
 H373 May cause damage to the central nervous system through prolonged or repeated exposure.

· Precautionary statements

H412 Harmful to aquatic life with long lasting effects.

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.

P243 Take action to prevent static discharges.

P261 Avoid breathing vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves.

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

P312 Call a POISON CENTER/doctor if you feel unwell.

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

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: 8052-42-4 EINECS: 232-490-9 | Asphalt substance with a Community workplace exposure limit | 50-100% |
| EC number: 918-668-5 Index number: 649-356-00-4 Reg.nr.: 01-2119455851-35 | Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H335-H336 | <10% |
| CAS: 64742-82-1 EINECS: 265-185-4 Index number: 649-330-00-2 Reg.nr.: 01-2119458049-33 | Naphtha (petroleum), hydrodesulfurized heavy STOT RE 1, H372; Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336 | <10% |
| EC number: 919-857-5 Reg.nr.: 01-2119463258-33 | Naphtha (petroleum), hydrotreated heavy Asp. Tox. 1, H304 STOT SE 3, H336 | <10% |

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CAS: 67-56-1

EINECS: 200-659-6


Index number: 603-001-00-X

Reg.nr.: 01-2119433307-44

methanol

 Flam. Liq. 2, H225

 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331

 STOT SE 1, H370

<1%

· 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.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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

· After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Do not induce vomiting; call for medical help immediately.

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**

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:

Mount respiratory protective device.

· Additional information

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

Cool endangered receptacles with water spray.

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

Wear protective equipment. Keep unprotected persons away.

Mount respiratory protective device.

· **6.2 Environmental precautions:**

Prevent seepage into sewage system, workpits and cellars.

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.

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· **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**

Ensure good ventilation/exhaustion at the workplace.

Use only in well ventilated areas.

· **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.

Keep respiratory protective device available.

· **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:**

Not required.

· **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· **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:**

8052-42-4 Asphalt

WEL Short-term value: 10 mg/m³
Long-term value: 5 mg/m³

67-56-1 methanol

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

· **DNELs**

Solvent naphtha (petroleum), light arom.

| | | |
|------------|-----------------------------|---------------------------------|
| Oral | DNEL (Langzeit-wiederholt) | 11 mg/kg bw/day (BEV) |
| Dermal | DNEL (Langzeit-wiederholt) | 25 mg/kg bw/day (ARB) |
| | | 11 mg/kg bw/day (BEV) |
| Inhalative | DNEL (Langzeit-wiederholt) | 150 mg/m ³ Air (ARB) |
| | | 32 mg/m ³ Air (BEV) |

64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

| | | |
|------|----------------------------|-----------------------|
| Oral | DNEL (Langzeit-wiederholt) | 26 mg/kg bw/day (BEV) |
|------|----------------------------|-----------------------|

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| | | |
|------------------------------------------------|-----------------------------|--------------------------------------------------------------------|
| Dermal | DNEL (Langzeit-wiederholt) | 44 mg/kg bw/day (ARB) 26 mg/kg bw/day (BEV) |
| Inhalative | DNEL (Langzeit-wiederholt) | 330 mg/m ³ Air (ARB) 71 mg/m ³ Air (BEV) |
| Naphtha (petroleum), hydrotreated heavy | | |
| Oral | DNEL (Langzeit-wiederholt) | 125 mg/kg bw/day (BEV) |
| Dermal | DNEL (Langzeit-wiederholt) | 208 mg/kg bw/day (ARB) 125 mg/kg bw/day (BEV) |
| Inhalative | DNEL (Langzeit-wiederholt) | 871 mg/m ³ Air (ARB) 185 mg/m ³ Air (BEV) |

• 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.

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 eyes and skin.

Use skin protection cream for skin protection.

Store protective clothing separately.

• Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

• Protection of hands:



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

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

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

• 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.

• Penetration time of glove material

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

Value for the permeation: Level ≤ 4, 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)

• Not suitable are gloves made of the following materials:

Leather gloves

Strong material gloves

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· Eye 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

· Appearance:

| | |
|---------|---------------|
| Form: | Pasty |
| Colour: | Black |
| Odour: | Specific type |

· pH-value: Not applicable

· Change in condition

| | |
|------------------------------------------|---------------|
| Melting point/freezing point: | Undetermined. |
| Initial boiling point and boiling range: | 130 °C |

· Flash point: 31 °C

· Ignition temperature: 450 °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:

| | |
|--------|-----------|
| Lower: | 0.6 Vol % |
| Upper: | 7 Vol % |

· Vapour pressure at 20 °C: 1 hPa

· Density at 20 °C: 1.28 g/cm³

· Solubility in / Miscibility with water: Not miscible or difficult to mix.

· Viscosity:

| | |
|-------------------|-----------------|
| Dynamic at 20 °C: | 17,000 mPas |
| Kinematic: | Not determined. |

· Solvent content:

Organic solvents: 24.7 %

· 9.2 Other information 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.

· 10.3 Possibility of hazardous reactions

Reacts with strong oxidising agents.

· 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

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SECTION 11: Toxicological information**11.1 Information on toxicological effects**

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

| | | |
|------------|----------|------------------|
| Inhalative | LC50/4 h | >69.3 mg/l (rat) |
|------------|----------|------------------|

Solvent naphtha (petroleum), light arom.

| | | |
|------------|----------|---------------------------------------------|
| Oral | LD50 | 3,492 mg/kg (rat) |
| Dermal | LD50 | >3,160 mg/kg (rabbit) >2,000 mg/kg (rat) |
| Inhalative | LC50/4 h | >10.2 mg/l (rat) |

64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

| | | |
|------------|----------|-------------------------------------------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
| Dermal | LD50 | >3,160 mg/kg (rabbit) 3,400 mg/kg (rat) (OECD 402) |
| Inhalative | LC50/4 h | 13.1 mg/l (rat) (OECD 403) |

Naphtha (petroleum), hydrotreated heavy

| | | |
|------------|----------|-----------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
| Dermal | LD50 | >5,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >4,951 mg/l (rat) |

· 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 May cause drowsiness or dizziness.

· STOT-repeated exposure May cause damage to the central nervous system through prolonged or repeated exposure.

· Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information**12.1 Toxicity**

· Aquatic toxicity:

Solvent naphtha (petroleum), light arom.

| | |
|----------|----------------------------------------------------------------------------------------|
| EC50 | <10 mg/l (daphnia magna) |
| IC50 | <10 mg/l (daphnia magna) |
| LC50 | <10 mg/l (green alge) |
| | >1-<10 mg/l (piscis) |
| EL50/48h | 3.2 mg/l (ceriodaphnia Dubai) 3.2 mg/l (daphnia magna) |
| EL50/72h | 2.6-2.9 mg/l (Pseudokirchneriella subcapitata) 2.9 mg/l (selenastrum capricornutum) |
| LL50/96h | 9.2 mg/l (Oncorhynchus mykiss) |

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| | |
|-----------|--------------------------------------------|
| NOELR/72h | 1 mg/l (Pseudokirchneriella subcapitata) |
| EC50/48h | 3.2 mg/l (daphnia magna) |
| EC50/72h | 2.9 mg/l (Pseudokirchneriella subcapitata) |
| LC50/96h | 9.2 mg/l (Oncorhynchus mykiss) |

64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

| | |
|-----------|-----------------------------------------------|
| EC50/96h | 10-30 mg/l (piscis) |
| EC50 | >1-<10 mg/l (green alge) |
| | >1-<10 mg/l (bacteria) |
| | >1-<10 mg/l (daphnia magna) |
| LC50 | >1-<10 mg/l (piscis) |
| IC50/72h | 4.6-10 mg/l (green alge) (OECD 201) |
| EC50/48h | 10-22 mg/l (daphnia magna) (OECD 202) |
| LC0/96h | 10-30 mg/l (piscis) (OECD 203) |
| EL50/48h | 10-22 mg/l (daphnia magna) |
| EL50/72h | 4.6-10 mg/l (Pseudokirchneriella subcapitata) |
| LL50/96h | 10-30 mg/l (Oncorhynchus mykiss) |
| NOELR/72h | 1 mg/l (Pseudokirchneriella subcapitata) |
| NOEC/21d | 0.097 mg/l (daphnia magna) |
| EC50/72h | 4.6-10 mg/l (green alge) |

Naphtha (petroleum), hydrotreated heavy

| | |
|-----------|-----------------------------------------------|
| EL0/48h | 1,000 mg/l (daphnia magna) |
| EL50/72h | >1,000 mg/l (Pseudokirchneriella subcapitata) |
| LL50/96h | >1,000 mg/l (Oncorhynchus mykiss) |
| NOELR/72h | 100 mg/l (Pseudokirchneriella subcapitata) |

• **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.

• Ecotoxicological effects:

• Remark:

Harmful to fish

• Additional ecological information:

• General notes:

Do not allow product to reach ground water, water course or sewage system.
Harmful to aquatic organisms
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Danger to drinking water if even small quantities leak into the ground.

• **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

| | |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 08 00 00 | WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 01 00 | wastes from MFSU and removal of paint and varnish |

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

· Uncleaned packaging:· Recommendation:

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information· **14.1 UN-Number**

· ADR, ADN

Void

· IMDG, IATA

UN1139

· **14.2 UN proper shipping name**

· ADR, ADN

Void

· IMDG, IATA

COATING SOLUTION

· **14.3 Transport hazard class(es)**

· ADR, ADN

· Class

Void

· IMDG, IATA



· Class

3 Flammable liquids.

· Label

3

· **14.4 Packing group**

· ADR

Void

· IMDG, IATA

III

· **14.5 Environmental hazards:**

· Marine pollutant:

No

· **14.6 Special precautions for user**

Not applicable.

· EMS Number:

F-E, S-E

· Stowage Category

A

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· Transport/Additional information:

· ADR

· Remarks:

> 450 ltr; 3 F1 / III

· IMDG

· Limited quantities (LQ)

5L

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· Remarks:

> 30 ltr; 3 F1 / III

· UN "Model Regulation":

Void

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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 None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations:
- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- VOC EU 316.2 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.

- 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 organs through prolonged or repeated exposure.
 - H411 Toxic to aquatic life with long lasting effects.
- Recommended restriction of use refer to Technical Data Sheet (TDS)
- Department issuing SDS: Laboratory
- 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)
 - IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 - ICAO: International Civil Aviation Organisation
 - ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
 - 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)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative

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Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 3: Acute toxicity – Category 3
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
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
REACH directive 1907/2006/EC

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

Adaptation in accordance with REACH directive 1907/2006/EC

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