

Version number 9 Printing date 03.07.2020 Revision: 01.07.2020

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

- · 1.1 Product identifier
- · Trade name: VehiclePro Truck Cleaner, acidic RM 804
- · UFI: QH80-903D-M001-AN5E
- · 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 Exterior vehicle cleaner
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

#### Alfred Kärcher SE & Co. KG

Alfred-Kärcher-Str. 28-40 D - 71364 Winnenden Tel.: +49-7195-14-0

#### Kärcher (UK) Ltd.

Kärcher House **Brookhill Way** Banbury Oxon OX16 3ED **Great Britain** Tel.: +44-1295-752-000

Internet: www.karcher.com

#### · Further information obtainable from:

Department TCD-D Tel.: +49-7195-14-2548 Fax: +49-7195-14-3164 safetydata@karcher.com

#### · 1.4 Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

# **SECTION 2: Hazards identification**

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

H290 May be corrosive to metals. Met. Corr.1

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

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- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

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

· Hazard pictograms



GHS05

- · Signal word Danger
- · Hazard-determining components of labelling:

phosphoric acid

· Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

· Precautionary statements

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

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor. P310

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· 2.3 Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

# **SECTION 3: Composition/information on ingredients**

· 3.2 Chemical characterisation: Mixtures

· Description: Cleaning agent

| · Dangerous components:   |   |         |
|---|---|---------|
| CAS: 7664-38-2<br>EINECS: 231-633-2<br>Index number: 015-011-00-6<br>Reg.nr.: 01-2119485924-24-xxxx | phosphoric acid  Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318   | 10-20%  |
| CAS: 67-63-0<br>EINECS: 200-661-7<br>Index number: 603-117-00-0<br>Reg.nr.: 01-2119457558-25-xxxx   | propan-2-ol      Flam. Liq. 2, H225;    Eye Irrit. 2, H319; STOT SE 3, H336 | ≥5-<10% |

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| CAS: 111-76-2   | 2-butoxyethanol   | ntd. of pag<br>1-5% |
|---|---|---------------------|
| EINECS: 203-905-0<br>Index number: 603-014-00-0<br>Reg.nr.: 01-2119475108-36-XXXX | ① Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319   |                     |
| CAS: 78330-20-8   | fatty alcohol ethoxylate  Eye Dam. 1, H318;  Acute Tox. 4, H302   | ≥3-≤5               |
| CAS: 147170-44-3<br>EC number: 604-575-4<br>Reg.nr.: 01-2119489410-39-0002        | 1-propanaminium, 3-amino-N- (carboxymethyl) -N, N-dimethyl-, N- (C8-18 (even numbered) and C18-unsaturated) acyl derivatives, hydroxides, inner salts Aquatic Chronic 3, H412 | ≥4-<5               |
| CAS: 31800-88-1   | Octyloxypoly(ethyleneoxy)ethyl phosphate  Eye Dam. 1, H318;  Skin Irrit. 2, H315  | ≥3-<5               |
| Regulation (EC) No 648/2004   | on detergents / Labelling for contents  |                     |
| non-ionic surfactants, phosphates   |   | <5                  |
| perfumes  |   |                     |

#### **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · General information

Involve doctor immediately.

Immediately remove any clothing soiled by the product.

· After inhalation

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

Supply fresh air; consult doctor in case of complaints.

After skin contact

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

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

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

No further relevant information available.

- · Hazards No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.



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### **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 No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

#### **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:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Do not allow to penetrate the ground/soil.

#### · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Use neutralising agent.

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.

Prevent formation of aerosols.

Avoid contact with eyes and skin.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- · Requirements to be met by storerooms and receptacles:

Protect from humidity. Store dry and locked up.

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Store only in the original receptacle.

- · Information about storage in one common storage facility: Keep away from food, beverages and feed.
- · Further information about storage conditions:

Protect from frost.

Store under lock and key and out of the reach of children.

Keep receptacle tightly sealed.

· 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters

| · Ingredier | · Ingredients with limit values that require monitoring at the workplace: |                        |  |
|-------------|---|------------------------|--|
| 7664-38-2   | 7664-38-2 phosphoric acid   |                        |  |
|             | EL Short-term value: 2 mg/m³ Long-term value: 1 mg/m³                     |                        |  |
|             |   | 5                      |  |
| 67-63-0 pr  | 67-63-0 propan-2-ol   |                        |  |
|             | WEL Short-term value: 1250 mg/m³, 500 ppm                                 |                        |  |
| Long        | Long-term value: 999 mg/m³, 400 ppm                                       |                        |  |
| 111-76-2 2  | 111-76-2 2-butoxyethanol  |                        |  |
|             | WEL   Short-term value: 246 mg/m³, 50 ppm                                 |                        |  |
|             | Long-term value: 123 mg/m³, 25 ppm  |                        |  |
| Sk,         | Sk, BMGV  |                        |  |
| · DNELs     |   |                        |  |
| 67-63-0 pr  | opan-2  | ?-ol                   |  |
| Oral        | DNEL  | 26 mg/kg*d (consumer)  |  |
| Dermal      | DNEL  | 888 mg/kg*d (employee) |  |
|             |   | 319 mg/kg*d (consumer) |  |
| Inhalative  | DNEL  | 500 mg/m3 (employee)   |  |
|             |   | 89 mg/m3 (consumer)    |  |

#### · Ingredients with biological limit values:

#### 111-76-2 2-butoxyethanol

BMGV 240 mmol/mol creatinine

Medium: urine

Sampling time: post shift Parameter: butoxyacetic acid

- · 8.2 Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

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Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.

Filter A/P2.

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.

Not necessary if room is well-ventilated.

· Protection of hands:

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



Protective gloves.

- · Material of gloves Butyl rubber, BR
- · 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.

- · For the permanent contact gloves made of the following materials are suitable:
- \* butyl rubber 0,7 mm, 480 min (EN 374)
- As protection from splashes gloves made of the following materials are suitable:
- \* nitril rubber 0,4 mm, 30 min (EN 374)
- · Not suitable are gloves made of the following materials:

Strong material gloves

Leather gloves

· Eye protection:



Tightly sealed goggles (EN 166)

· Body protection:

Acid resistant protective clothing Boots

· Limitation and supervision of exposure into the environment

No further relevant information available.

· Risk management measures No further relevant information available.

## **SECTION 9: Physical and chemical properties**

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form:

Fluid

Colour:

Red

· Odour:

Specific type

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|   | (Contd. of p                                  | age 6) |
|---|---|--------|
| · Odour threshold:  | Not determined.                               |        |
| · pH-value at 20 °C:                                      | 1.2   |        |
| · pH-value 1 %:   | 2.4   |        |
| · Change in condition                                     |   |        |
| Melting point/freezing point:                             | -9 °C   |        |
| Initial boiling point and boiling range:                  | 100 °C  |        |
| · Flash point:  | 42 °C   |        |
|   | Does not support burning                      |        |
| · Flammability (solid, gaseous)                           | Not applicable.                               |        |
| · Ignition temperature:                                   | not applicable                                |        |
| · Decomposition temperature:                              | Not determined.                               |        |
| · Auto-ignition temperature:                              | Product is not selfigniting.                  |        |
| · Explosive properties:                                   | Product does not present an explosion hazard. |        |
| · Explosion limits:                                       |   |        |
| Lower:  | Not determined.                               |        |
| Upper:  | Not determined.                               |        |
| · Vapour pressure:  | Not determined.                               |        |
| · Density at 20 °C:                                       | 1.06 g/cm <sup>3</sup>                        |        |
| · Relative density  | Not determined.                               |        |
| · Vapour density  | Not determined.                               |        |
| · Evaporation rate  | Not determined.                               |        |
| · Solubility in / Miscibility with                        |   |        |
| Water:  | Fully miscible                                |        |
| $\cdot \ \textbf{Partition coefficient: n-octanol/water}$ | : Not determined.                             |        |
| · Viscosity:  |   |        |
| dynamic at 20 °C:   | 8 mPas  |        |
| kinematic:  | Not determined.                               |        |
| · Solvent content:  |   |        |
| Organic solvents:   | 12.5 %  |        |
| VOC (EC)  | 12.50 %                                       |        |
| Solids content:   | 26.1 %  |        |
| · 9.2 Other information                                   | No further relevant information available.    |        |
| · Additional information                                  | Does not support burning                      |        |
|   |   |        |

# **SECTION 10: Stability and reactivity**

· 10.1 Reactivity corresponds to 10.3

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- · 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 alkali

Corrosive action on metals

Forms hydrogen in aqueous solution with metals

Reacts with light alloys to form hydrogen

- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials:

Not suitable for acid sensible materials. metals

· 10.6 Hazardous decomposition products: Flammable gases/vapours

### **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:  7664-38-2 phosphoric acid  |                           |  |  |
|---|---------------------------|--|--|
|   |                           |  |  |
| Orol   I DEO   2 CO0 mg/kg (Dot)  | 7664-38-2 phosphoric acid |  |  |
| Oral LD50 2,600 mg/kg (Rat)   |                           |  |  |
| Dermal LD50 2,740 mg/kg (can)   |                           |  |  |
| 67-63-0 propan-2-ol   |                           |  |  |
| Dermal LD50 12,800 mg/kg (can)  |                           |  |  |
| 12,800 mg/kg (rabbit)   |                           |  |  |
| Inhalative LC50 5,280 mg/kg (Rat)   |                           |  |  |
| 111-76-2 2-butoxyethanol  |                           |  |  |
| Oral LD50 1,746 mg/kg (Rat)   |                           |  |  |
| Inhalative LCLo >3.1 ppm (consumer)   |                           |  |  |
| 78330-20-8 fatty alcohol ethoxylate   |                           |  |  |
| Oral ATE 500 mg/kg (Rat)  |                           |  |  |
| 147170-44-3 1-propanaminium, 3-amino-N- (carboxymethyl) -N, N-dimethyl-, N- (C8-18 (even numbered) and C18-unsaturated) acyl derivatives, hydroxides, inner salts |                           |  |  |
| Oral LD50 >6,000 mg/kg (Rat)  |                           |  |  |

- Primary irritant effect:
- · Skin corrosion/irritation

Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes serious eye damage.

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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- · CMR effects (carcinogenity, 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 Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

· 12.1 Toxicity

| 12.1 Toxiony              |  |  |
|---------------------------|--|--|
| · Aquatic toxicity:       |  |  |
| 7664-38-2 phosphoric acid |  |  |
| LC50/96 h                 | 138 mg/l (Gambusia affinis)  |  |
| EC50                      | 270 mg/l (bacteria)  |  |
| 67-63-0 prop              | an-2-ol  |  |
| LC50/96 h                 | 9,640 mg/l (Pimephales promelas)   |  |
| EC50/48 h                 | 13,299 mg/l (Daphnia magna)  |  |
| EC50/72 h                 | EC50/72 h >1,000 mg/l (Desmodesmus subspicatus)  |  |
| EC10/18 h                 | EC10/18 h >1,000 mg/l (Pseudomonas putida) (DIN 38412)                                   |  |
| 111-76-2 2-butoxyethanol  |  |  |
| LC50/96 h                 | 1,474 mg/l (Oncorhynchus mykiss) (OECD 203)  |  |
| EC50/48 h                 | 1,550 mg/l (Daphnia magna) (OECD 202)  |  |
| EC50/72 h                 | 1,840 mg/l (Pseudokirchneriella subcapitata) (OECD 201)                                  |  |
| EC0 (16 h)                | EC0 (16 h) 700 mg/l (Pseudomonas putida)   |  |
| NOEL (21 d)               | 100 mg/l (Daphnia magna) (OECD 211)  |  |
|                           | 147170-44-3 1-propanaminium, 3-amino-N- (carboxymethyl) -N, N-dimethyl-, N- (C8-18 (even |  |
|                           | numbered) and C18-unsaturated) acyl derivatives, hydroxides, inner salts                 |  |
| LC50/96 h                 | 3 mg/l (Pimephales promelas)   |  |
| EC50/48 h                 | 5 mg/l (Daphnia magna)   |  |
| EC50/72 h                 | 15.6 mg/l (Desmodesmus subspicatus)  |  |
| EC0 (16 h)                | EC0 (16 h) >8,000 mg/l (Pseudomonas putida)  |  |

- · 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:
- · COD-value: 533000 mg/l
- · General notes:

The product does not contain organically bounded halogens (AOX-free).

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The product does not contain organic complexing agents.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · 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. Must be specially treated adhering to official regulations.

· European waste catalogue

20 01 29\* detergents containing hazardous substances

- · Uncleaned packaging:
- · Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Packagings that may not be cleansed are to be disposed of in the same manner as the product. Non contaminated packagings may be recycled.

· Recommended cleansing agents: Water, if necessary together with cleaning agents.

### **SECTION 14: Transport information**

- · 14.1 UN-Number
- · ADR, IMDG, IATA

UN1805

- · 14.2 UN proper shipping name
- · ADR

1805 PHOSPHORIC ACID, SOLUTION

· IMDG, IATA

PHOSPHORIC ACID, SOLUTION

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(Contd. of page 10) · 14.3 Transport hazard class(es) · ADR · Class 8 (C1) Corrosive substances. · Label · IMDG, IATA · Class 8 Corrosive substances. · Label · 14.4 Packing group · ADR, IMDG, IATA Ш · 14.5 Environmental hazards: · Marine pollutant: No · 14.6 Special precautions for user Warning: Corrosive substances. · Hazard identification number (Kemler code): 80 · EMS Number: F-A.S-B · Segregation groups Acids · Stowage Category · Segregation Code SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: · 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 · Transport category · Tunnel restriction code · IMDG · Limited quantities (LQ) 5L (Contd. on page 12)



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|----------------------------|--|
| · Excepted quantities (EQ) | Code: E1  Maximum net quantity per inner packaging: 30 ml  Maximum net quantity per outer packaging: 1000 ml |
| · UN "Model Regulation":   | UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III  |

### **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.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations
- · Information about limitation of use:

Employment restrictions concerning pregnant and lactating women must be observed. Employment restrictions concerning juveniles must be observed.

· 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. A product information sheet can be provided if requested.

#### · Relevant phrases

H225 Highly flammable liquid and vapour.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

· Department issuing SDS: TCD-D

· Contact:

Department TCD-D Tel.: +49-7195-14-2548 Fax: +49-7195-14-3164 safetydata@karcher.com

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#### Abbreviations and acronyms:

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)

VOC: Volatile Organic Compounds (USA, EU) 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 Flam. Liq. 2: Flammable liquids - Category 2 Met. Corr.1: Corrosive to metals – Category 1 Acute Tox. 4: Acute toxicity - oral - Category 4 Skin Corr. 1B: Skin corrosion/irritation - Category 1B

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Data compared to the previous version altered.

0.011-347.0

RM804/7-2

2.318