

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

Printing date 19.12.2025

Version number 6 (replaces version 5)

Revision: 01.12.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** Disinfectant, liquid RM 735**UFI:** 3T60-509F-G004-3TH4**1.2 Relevant identified uses of the substance or mixture and uses advised against**
Restricted to professional users.

Keep away from children.

Application of the substance / the mixture Disinfectant**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

Internet: www.karcher.com**Further information obtainable from:**

Regulatory Affairs

Tel.: +49-7195-14-0

productsafety.management.de@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: +1-703-527-3887 (collect calls accepted)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Aquatic Acute 1 H400 Very toxic to aquatic life.

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

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



GHS05 GHS09

· Signal word Danger

· Hazard-determining components of labelling:

Didecyldimethylammonium chloride (DDAC)
Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))
Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))

· Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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

· Labelling of packages where the contents do not exceed 125 ml

· Hazard pictograms



GHS05 GHS09

· Signal word Danger

· Hazard-determining components of labelling:

Didecyldimethylammonium chloride (DDAC)
Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))
Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))

· Hazard statements

H318 Causes serious eye damage.

· Precautionary statements

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

· 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

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- **vPvB:** Not applicable
- **Determination of endocrine-disrupting properties** Not applicable

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** Mixture of substances listed below with non-hazardous additions.

· Dangerous components:

CAS: 7173-51-5 EINECS: 230-525-2 Index number: 612-131-00-6	Didecyldimethylammonium chloride (DDAC)  Flam. Liq. 3, H226;  Skin Corr. 1A, H314;  Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1);  Acute Tox. 4, H302	≥2.5-<5%
CAS: 68424-85-1 EINECS: 270-325-2 Reg.nr.: 01-2119965180-41	Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))  Skin Corr. 1B, H314; Eye Dam. 1, H318;  Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1);  Acute Tox. 4, H302	≥2.5-<5%
CAS: 85409-23-0 EINECS: 287-090-7	Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))  Skin Corr. 1B, H314;  Aquatic Chronic 1, H410;  Acute Tox. 4, H302	≥2.5-<5%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol  Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336	1-5%

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

disinfectants

· 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** Involve doctor immediately.

· 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** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact** Rinse opened eye for several minutes under running water.

· After swallowing

Rinse out mouth and then drink plenty of water.
If symptoms persist consult doctor.

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

Corneal damage

· 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.

- 5.2 Special hazards arising from the substance or mixture**

Hydrogen chloride (HCl)

Nitrogen oxides (NO_x)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

- 5.3 Advice for firefighters**

- Protective equipment:** Wear fully protective suit.

- Additional information**

Cool endangered receptacles with water spray.

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** Not required

- 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.

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).

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.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:** Keep away from food, beverages and feed.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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****68424-85-1 Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))**

Dermal	DNEL	5.7 mg/kg×d (employee)
Inhalative	DNEL	3.96 mg/m ³ (employee) 1.64 mg/m ³ (consumer)
Irritation of skin	DNEL	3.4 mg/cm ² (consumer)

85409-23-0 Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))

Inhalative	DNEL	1 mg/m ³ (employee) 1 mg/m ³ (consumer)
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67-63-0 propan-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/m ³ (employee) 89 mg/m ³ (consumer)

· **PNECs****68424-85-1 Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))**

PNEC	0.001 mg/l (freshwater) 0.001 mg/l (marine water) 0.4 mg/l (STP)
PNEC sediment	12.27 mg/kg (freshwater) 13.09 mg/kg (marine water)
PNEC soil	7 mg/kg (soil)

85409-23-0 Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))

PNEC	0.000042 mg/l (freshwater) 0.000042 mg/l (marine water) 0.21 mg/l (STP)
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PNEC soil	6.81 mg/kg (freshwater) 0.681 mg/kg (marine water) 1.36 mg/kg (soil)
67-63-0 propan-2-ol	
PNEC	140.9 mg/l (freshwater) 140.9 mg/l (marine water) 140.9 mg/l (STP) 2251 mg/l (STP)
PNEC sediment	552 mg/kg (freshwater) 552 mg/kg (marine water)
PNEC soil	28 mg/kg (soil)

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**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- **Respiratory protection:** Not necessary if room is well-ventilated.

- **Hand protection**

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)

- **Eye/face protection**



Tightly sealed goggles (EN 166)

- **Body protection:** Protective work clothing.

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

Liquid

· Colour:

Colourless

· Odour:

Product specific

· Odour threshold:

Not determined

· Melting point/freezing point:

0 °C

· Boiling point or initial boiling point and boiling range

100 °C

· Flammability

Not applicable

· Lower and upper explosion limit

Not determined

· Lower:

Not determined

· Upper:

Not determined

· Flash point:

Not applicable

· Auto-ignition temperature:

not applicable

· Decomposition temperature:

Not determined

· pH at 20 °C

7.6

1 % 8

7-9

· pH-value 1 %:**· Viscosity:**

Not determined

· Kinematic viscosity

4.5 mPas

· dynamic at 20 °C:**· Solubility**

Fully miscible

· Water:

Not determined

· Partition coefficient n-octanol/water (log value)

Not determined

· Vapour pressure:

Not determined

· Density and/or relative density**· Density at 20 °C:**

0.987 g/cm³

· Relative density

Not determined

· Vapour density

Not determined

· Relative gas density

Not determined

· Particle characteristics

Not applicable

· 9.2 Other information**· Appearance:**

Fluid

· Form:**· Important information on protection of health and****environment, and on safety.**

Product is not selfigniting.

· Ignition temperature:

Product does not present an explosion hazard.

· Explosive properties:**· Solvent content:**

10.2 %

· Solids content:

Not determined

· Change in condition**· Evaporation rate****· Information with regard to physical hazard classes****· Explosives**

Void

· Flammable gases

Void

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· Aerosols	Void
· 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** corresponds to 10.3
- **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:**

7173-51-5 Didecyldimethylammonium chloride (DDAC)

Oral	LD50	238 mg/kg (Rat)
Dermal	LD50	3342 mg/kg (Rabbit)

68424-85-1 Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))

Oral	LD50	344 mg/kg (Rat)
Dermal	LD50	3340 mg/kg (Rabbit)

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85409-23-0 Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))

Oral	LD50	344 mg/kg (Rat)
Dermal	LD50	2300 mg/kg (Rat)

67-63-0 propan-2-ol

Oral	LD50	5840 mg/kg (Rat) (OECD 401)
Dermal	LD50	13900 mg/kg (Rabbit) (OECD 402)

· **Primary irritant effect:**

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **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:****7173-51-5 Didecyldimethylammonium chloride (DDAC)**

LC50/96 h	0.19 mg/l (Pimephales promelas)
EC50/48 h	0.062 mg/l (Daphnia magna)
EC50	11 mg/l (bacteria)
ErC50/96h	0.026 mg/l (Pseudokirchneriella subcapitata)
NOEC	0.032 mg/l (Danio rerio)
	0.014 mg/l (Daphnia magna)

68424-85-1 Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))

LC50/96 h	0.28 mg/l (Pimephales promelas) (US-EPA) 0.515 mg/l (Lepomis macrochirus)
IC50/72 h	0.03 mg/l (Algae)
EC50/48 h	0.016 mg/l (Daphnia magna)
EC50/30 min	11 mg/l (activated sludge) (OECD 209)
ErC50/96h	0.049 mg/l (Pseudokirchneriella subcapitata)
NOEC	0.032 mg/l (Pimephales promelas) 0.0042 mg/l (Daphnia magna) 0.456 mg/l (Lepomis macrochirus)

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85409-23-0 Alkyl (C12-C14) ethylbenzylammonium chloride (ADEBAC (C12-C14))	
NOEC	0.00415 mg/l (Daphnia magna)
67-63-0 propan-2-ol	
LC50/96 h	9640 mg/l (Pimephales promelas)
EC50/48 h	13299 mg/l (Daphnia magna)
EC50/72 h	>1000 mg/l (Desmodesmus subspicatus)
EC10/18 h	>1000 mg/l (Pseudomonas putida) (DIN 38412)

- **12.2 Persistence and degradability** No further relevant information available.

- **Degree of elimination:**

68424-85-1 Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))	
OECD 301D	63 % (28 d)

- **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**

- **Additional ecological information:**

- **COD-value:** 392.000 mg/l

- **General notes:**

The product does not contain organic complexing agents.

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

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

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

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
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· Uncleaned packaging:**· Recommendation:**

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Non contaminated packagings may be recycled.

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

· Recommended cleansing agents: Water, if necessary together with cleaning agents.**SECTION 14: Transport information****· 14.1 UN number or ID number****· ADR, IMDG, IATA**

UN1903

· 14.2 UN proper shipping name**· ADR**1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(alkylaryldimethylammoniumchloride), ENVIRONMENTALLY
HAZARDOUS**· IMDG**DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(alkylaryldimethylammoniumchloride), MARINE POLLUTANT**· IATA**DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(alkylaryldimethylammoniumchloride)**· 14.3 Transport hazard class(es)****· ADR****· Class
· Label**

8 (C9) Corrosive substances.

8

· IMDG**· Class
· Label**

8 Corrosive substances.

8

· IATA**· Class
· Label**

8 Corrosive substances.

8

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· 14.4 Packing group	III
· ADR, IMDG, IATA	
· 14.5 Environmental hazards:	
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Corrosive substances.
· Hazard identification number (Kemler code):	80
· EMS Number:	F-A,S-B
· Stowage Category	A
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable
· Transport/Additional information:	
· ADR	
· 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	3
· Tunnel restriction code	E
· 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
· UN "Model Regulation":	UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (ALKYLARYLDIMETHYLLAMMONIUMCHLORIDE), 8, III, ENVIRONMENTALLY HAZARDOUS

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 E1** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

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· Regulation (EU) No 649/2012

7173-51-5 | Didecyldimethylammonium chloride (DDAC)

Annex I Part 1

· National regulations

- **Information about limitation of use:** Employment restrictions concerning juveniles must be observed.
- **Breakdown regulations:** Critical quantity values according to the regulations on accidents should be adhered to.
- **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.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

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

Skin corrosion/irritation	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
Serious eye damage/irritation	
Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	
Hazardous to the aquatic environment - short-term (acute) aquatic hazard	Expert judgement

· Contact:

Regulatory Affairs
Tel.: +49-7195-14-0

productsafety.management.de@karcher.com

· Version number of previous version: 5

· Abbreviations and acronyms:

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

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PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

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 Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· * Data compared to the previous version altered.

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