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

1.1 Product identifier

arecal Fillup Top-Clean Zitrus Article number: 089541110

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant uses

Cleaning agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Kellner & Kunz AG

Boschstr. 37 4600 Wels / AUSTRIA Phone 0043-7242-484-0 Fax 0043-7242-484-924 Homepage www.reca.co.at E-mail info@reca.co.at

Address enquiries to

Technical information info@reca.co.at
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +43 (0) 1 406 43 43 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Flam. Liq. 2: H225 Highly flammable liquid and vapour.

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.

Skin Irrit. 2: H315 Causes skin irritation.

Skin Sens. 1: H317 May cause an allergic skin reaction. STOT SE 3: H336 May cause drowsiness or dizziness.

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



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2.2 Label elements

Signal word

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



Contains: Orange sweetly, Extract

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Hazard statements H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.

Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P261 Avoid breathing vapours / spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.

P331 Do NOT induce vomiting.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/national regulation.

Cleaner, 648/2004/CE, contains: >=30% aliphatic hydrocarbons

fragrances LIMONENE

2.3 Other hazards

Human health dangers Has a degreasing effect on the skin.

Environmental hazardsDoes not contain any PBT or vPvB substances.

Other hazards none

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance	
30 - <50	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	
	EINECS/ELINCS: 927-510-4, Reg-No.: 01-2119475515-33-XXXX	
	GHS/CLP: Flam. Liq. 2: H225 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411	
30 - <50	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	
	EINECS/ELINCS: 921-024-6, Reg-No.: 01-2119475514-35-XXXX	
	GHS/CLP: Flam. Liq. 2: H225 - Skin Irrit. 2: H315 - Asp. Tox. 1: H304 - STOT SE 3: H336 - Aquatic Chronic 2: H411	
10 - <25	Orange sweetly, Extract	
	CAS: 8028-48-6, EINECS/ELINCS: 232-433-8, Reg-No.: 01-2119493353-35-XXXX	
	GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Asp. Tox. 1: H304 - Aquatic Chronic 2: H411 - Flam. Liq. 3: H226	
1 - <10	Propan-2-ol	
·	CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX	
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336	

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. For full text of H-statements: see SECTION 16.



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SECTION 4: First aid measures

4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

Eye contact 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.

Ingestion Consult a doctor immediately.

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Headache Irritant effects Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed or in the event of vomiting, risk of product entering the lungs.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Alcohol-resistant foam.

Dry powder. Water spray jet. Carbon dioxide.

Extinguishing media that must not

be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products. In the event of fire the following can be released:

Carbon monoxide (CO)
Not combusted hydrocarbons.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Keep away from all sources of ignition.

Ensure adequate ventilation.

Use breathing apparatus if exposed to vapours/aerosol.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

In case the product spills into drains/surface waters/groundwater, immediately inform the $\,$

authorities.



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6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand).

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide good room ventilation even at ground level (vapours are heavier than air).

Avoid spilling or spraying in enclosed areas.

Ignitable mixtures can be formed in the empty container.

Take precautionary measures against static discharges.

Keep away from all sources of ignition - Refrain from smoking.

Ground/bond container and receiving equipment.

Use explosion-proofed equipment/fittings and non-sparkling tools.

Take off contaminated clothing and wash before reuse.

Wash hands before breaks and after work.

Use barrier skin cream.

Do not eat, drink, smoke or take drugs at work.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Provide solvent-resistant and impermeable floor.

Prevent penetration into the ground.

Provide floor with bunding.

Do not store together with oxidizing agents.

Protect from heat/overheating.

Keep container tightly closed.

Keep container in a well-ventilated place.

Keep in a cool place.

7.3 Specific end use(s)

See product use, SECTION 1.2



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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

EINECS/ELINCS: 927-510-4, Reg-No.: 01-2119475515-33-XXXX

Long-term exposure: 500 ppm, 2085 mg/m³, (Heptane)

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

EINECS/ELINCS: 921-024-6, Reg-No.: 01-2119475514-35-XXXX

Long-term exposure: 1200 mg/m³

Propan-2-ol

Substance

CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX

Long-term exposure: 400 ppm, 999 mg/m³

Short-term exposure (15-minute): 500 ppm, 1250 mg/m³

DNEL

Oubstance
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane
Industrial, dermal, Long-term - systemic effects: 773 mg/kg bw/day.
Industrial, inhalative, Long-term - systemic effects: 2035 mg/m³.
general population, oral, Long-term - systemic effects: 699 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 608 mg/m³.
general population, dermal, Long-term - systemic effects: 699 mg/kg bw/day.
Propan-2-ol, CAS: 67-63-0
Industrial, inhalative, Long-term - systemic effects: 500 mg/m³.
Industrial, dermal, Long-term - systemic effects: 888 mg/kg (1 d).
general population, dermal, Long-term - systemic effects: 319 mg/kg (1 d).
general population, inhalative, Long-term - systemic effects: 89 mg/m³.
general population, oral, Long-term - systemic effects: 26 mg/kg (1 d).
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Industrial, inhalative (vapor), Long-term - systemic effects: 2085 mg/m³.
Industrial, dermal, Long-term - systemic effects: 300 mg/kg.
general population, inhalative (vapor), Long-term - systemic effects: 447 mg/m³.
general population, dermal, Long-term - systemic effects: 149 mg/kg bw.
general population, oral, Long-term - systemic effects: 149 mg/kg bw.
Orange sweetly, Extract, CAS: 8028-48-6
Industrial, dermal, Long-term - systemic effects: 8,89 mg/kg bw/day.
Industrial, inhalative, Long-term - systemic effects: 31,1 mg/m³.
Industrial, dermal, Acute - local effects: 185.8 µg/cm².
general population, dermal, Acute - local effects: 92.9 μg/cm².
general population, oral, Long-term - systemic effects: 4,44 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 4,44 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 7,78 mg/m³.

PNEC

Substance	
Propan-2-ol, CAS: 67-63-0	
oral (food), 160 mg/kg.	



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> sewage treatment plants (STP), 2251 mg/l. soil, 28 mg/kg. sediment (seaater), 552 mg/kg. sediment (freshwater), 552 mg/kg. seawater, 140,9 mg/l. freshwater, 140,9 mg/l. Orange sweetly, Extract, CAS: 8028-48-6 sewage treatment plants (STP), 2.1 mg/L. terrestrial, 0,261 mg/kg. sediment (seaater), 0,13 mg/kg. sediment (freshwater), 1,3 mg/kg. seawater, 0,00054 mg/L. freshwater, 0,0054 mg/L. oral (food), 44,44 mg/kg.

8.2 Exposure controls

Additional advice on system design Ensure adequate ventilation on workstation.

Measurement methods for taking workplace measurements must meet the performance

requirements of DIN EN 482. For example, recommendations are given in the IFA's list of

hazardous substances.

Eye protection Safety glasses. (EN 166:2001)

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information.

0,7 mm Butyl rubber, >480 min (EN 374-1/-2/-3).

Skin protection light protective clothing

Other Do not inhale gases/vapours/aerosols.

Avoid contact with eyes and skin.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Respiratory protection Respiratory protection mask in the event of high concentrations.

Short term: filter apparatus, filter A. (DIN EN 14387)

Thermal hazards No information available.

Delimitation and monitoring of the

environmental exposition

Protect the environment by applying appropriate control measures to prevent or limit

emissions.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form liquid
Color colourless
Odor characteristic

Odour threshold No information available.

pH-value not applicable
pH-value [1%] not applicable
Boiling point [°C] 80 - 110
Flash point [°C] -12

Flammability (solid, gas) [°C] No information available.

Lower explosion limit0,6 Vol.-%Upper explosion limit7,2 Vol.-%Oxidising propertiesnoVapour pressure/gas pressure [kPa]0,008Density [g/ml]0,71

Bulk density [kg/m³] not applicable

Solubility in water partially soluble

Partition coefficient [n-octanol/water] No information available.

Viscosity < 20,5 mm²/s (40°C)

Relative vapour density determined No information available.

in air

Evaporation speed No information available.

Melting point [°C] <-20

Autoignition temperature [°C] not applicable

Decomposition temperature [°C] No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting. Reactions with oxidizing agents.

10.4 Conditions to avoid

Strong heating.
See SECTION 7.2.

10.5 Incompatible materials

Strong oxidizing agent.

10.6 Hazardous decomposition products

Flammable gases/vapours.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product	
inhalative, Based on the available information, the classification criteria are not fulfilled.:	
dermal, Based on the available information, the classification criteria are not fulfilled.:	
oral, Based on the available information, the classification criteria are not fulfilled.:	

Substance	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	
LD50, oral, Rat: > 5840 mg/kg.	
LD50, dermal, Rat: > 2920 mg/kg.	
LC50, inhalative, Rat: > 23,3 mg/l (4 h).	
Propan-2-ol, CAS: 67-63-0	
LD50, dermal, Rabbit: 13900 mg/kg (OECD 402).	
LD50, oral, Rat: 5840 mg/kg (OECD 401).	
LC50, inhalative, Rat: > 25 mg/l/6h (OECD 403).	
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	
LD50, dermal, Rabbit: 2800 - 3100 mg/kg.	
LD50, oral, Rat: > 5840 mg/kg.	
LC50, inhalative, Rat: > 23,3 mg/l/4h.	
Orange sweetly, Extract, CAS: 8028-48-6	
LD50, dermal, Rat: > 5000 mg/kg.	
LD50, oral, Rat: > 5000 mg/kg.	

Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled.

Calculation method

Skin corrosion/irritation Based on the available information, the classification criteria are fulfilled.

Irritant

Calculation method

Respiratory or skin sensitisation Based on the available information, the classification criteria are fulfilled.

May cause an allergic skin reaction.

Calculation method

Specific target organ toxicity —

single exposure

Based on the available information, the classification criteria are fulfilled.

Vapours may cause drowsiness and dizziness.

Calculation method

Specific target organ toxicity —

repeated exposure

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Based on the available information, the classification criteria are not fulfilled.

Reproduction toxicity Based on the available information, the classification criteria are not fulfilled. Based on the available information, the classification criteria are not fulfilled. Carcinogenicity

Aspiration hazard $v < 20,5 \text{ mm}^2/\text{s} (40 ^{\circ}\text{C})$

Based on the available information, the classification criteria are fulfilled.

General remarks

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Toxicological data of complete product are not available.

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SECTION 12: Ecological information

12.1 Toxicity

Substance		
Propan-2-ol, CAS: 67-63-0		
LC50, (24h), Daphnia magna: 9714 mg/l.		
LC50, (96h), Pimephales promelas: 9640 mg/l.		
EC50, Bacteria: > 100 mg/l.		
EC50, (72h), Scenedesmus subspicatus: > 100 mg/l.		
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics		
LC50, (96h), Oncorhynchus mykiss: > 13,4 mg/l.		
EC50, (24h), Pseudokirchneriella subcapitata: 10 - 30 mg/l.		
EC50, (48h), Daphnia magna: 3 mg/l.		
NOEC, (21d), Daphnia magna: 0,17 mg/l.		
Orange sweetly, Extract, CAS: 8028-48-6		
LC50, (48h), Invertebrates: 1.1 mg/L.		
LC50, (96h), fish: 5.65 mg/L.		
EL50, (48h), Algae: 4.3 mg/L.		

12.2 Persistence and degradability

Behaviour in environment

compartments

No information available.

Behaviour in sewage plant

No information available.

Biological degradability

The product is biodegradable.

12.3 Bioaccumulative potential

no

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material c It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.

Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended) 070604*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to

ADR/RID

1993

Inland navigation (ADN) 1993

Marine transport in accordance with

IMDG

. **. . . .**

Air transport in accordance with IATA 1993



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14.2 UN proper shipping name

Transport by land according to ADR/RID

Flammable liquid, n.o.s. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-

hexane, Orange sweetly, Extract)

- Classification Code

- ADR LQ

- Label

4600 Wels

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (D/E)

Inland navigation (ADN)

Flammable liquid, n.o.s. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-

hexane, Orange sweetly, Extract)

- Classification Code

F1

- Label



Marine transport in accordance with **IMDG**

Flammable liquid, n.o.s. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% nhexane, Orange sweetly, Extract)

- EMS

F-E. S-E

- Label



- IMDG LQ

Air transport in accordance with IATA Flammable liquid, n.o.s. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% nhexane, Orange sweetly, Extract)

- Label



14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

3

Inland navigation (ADN)

3

Marine transport in accordance with

Air transport in accordance with IATA 3

14.4 Packing group

Transport by land according to

ADR/RID

П

Inland navigation (ADN)

П

Marine transport in accordance with ||

IMDG

Air transport in accordance with IATA II



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14.5 Environmental hazards

Transport by land according to

ADR/RID

ves

Inland navigation (ADN) yes

Marine transport in accordance with MARINE POLLUTANT

IMDG

Air transport in accordance with IATA yes

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not determined

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008;

75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions

for people

Observe employment restrictions for young people.

Observe employment restrictions for mothers-to-be and nursing mothers.

- VOC (2010/75/CE) 100%

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H317 May cause an allergic skin reaction.

H226 Flammable liquid and vapour.

H411 Toxic to aquatic life with long lasting effects. H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness. H319 Causes serious eye irritation. H225 Highly flammable liquid and vapour.



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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

dangereuses ADN = Accord européen relatif au transport international des marchandises dangereuses par

voie de navigation intérieure ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods IUCLID = International Uniform ChemicaL Information Database

LC50 = Lethal concentration, 50% LD50 = Median lethal dose LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value – time-weighted average TLV®STEL = Threshold limit value – short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Customs Tariff 34022090

Classification procedure Flam. Liq. 2: H225 Highly flammable liquid and vapour. (On basis of test data)

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (On basis of test data)

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)

Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method) STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)

Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

Modified position none

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