SAFETY DATA SHEET
ALL PURPOSE CLEANER CONC

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

1.1. Product identifier

Product name ALL PURPOSE CLEANER CONC

Product number 63515

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

Identified uses Detergent.

1.3. Details of the supplier of the safety data sheet

Supplier

Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
BD3 7AY
+44 1274 267300
+44 1274 267306
SDS.EMEA@univarsolutions.com

1.4. Emergency telephone number

Emergency telephone SGS - +32 (0)3 575 55 55 (24h)

Sds No. 63515

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Eye Dam. 1 - H318

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms

Signal word Danger

Hazard statements H318 Causes serious eye damage.

Precautionary statements P280 Wear protective gloves/ protective clothing/ 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.

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Contains ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS, 1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL,N-C8-18 (EVEN NUMBERED) ACYL DERVIS, HYDROXIDES INNER SALTS, ALCOHOLS C12 - 14 (7 - 7.5 EO)

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TETRAPOTASSIUM PYROPHOSPHATE **1-5%**

CAS number: 7320-34-5 EC number: 230-785-7 REACH registration number: 01-2119489369-18-XXXX

Classification
Eye Irrit. 2 - H319

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS **1-5%**

CAS number: 68891-38-3 EC number: 500-234-8 REACH registration number: 01-2119488639-16-XXXX

Classification
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Aquatic Chronic 3 - H412

1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL,N-C8-18 (EVEN NUMBERED) ACYL DERVIS, HYDROXIDES INNER SALTS **1-5%**

CAS number: 97862-59-4 EC number: 931-296-8 REACH registration number: 01-2119488533-30-XXXX

Classification
Eye Dam. 1 - H318
Aquatic Chronic 3 - H412

ALCOHOLS C12 - 14 (7 - 7.5 EO) **1-5%**

CAS number: 68439-50-9

Classification
Eye Dam. 1 - H318
Aquatic Chronic 3 - H412

C9-11 ALCOHOL ETHOXYLATE 6 - 8 MOLES OF EO **1-5%**

CAS number: 68439-46-3

Classification
Acute Tox. 4 - H302
Eye Irrit. 2 - H319

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The full text for all hazard statements is displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

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

Eye contact Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Special protective equipment for firefighters Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Flush contaminated area with plenty of water.

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6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL,N-C8-18 (EVEN NUMBERED) ACYL DERVIS, HYDROXIDES INNER SALTS

Short-term exposure limit (15-minute): 1 ppm 2.9 mg/m³

TETRAPOTASSIUM PYROPHOSPHATE (CAS: 7320-34-5)

DNEL
Workers - Inhalation; Long term systemic effects: 17.63 mg/m³
General population - Inhalation; Long term systemic effects: 4.35 mg/m³

PNEC
- Fresh water; 0.05 mg/l
- marine water; 0.005 mg/l
- STP; 50 mg/l

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS (CAS: 68891-38-3)

DNEL
Workers - Inhalation; Long term systemic effects: 175 mg/m³
Workers - Dermal; Long term systemic effects: 2750 mg/kg/day
General population, Consumer - Oral; Long term systemic effects: 15 mg/kg/day
General population, Consumer - Inhalation; Long term systemic effects: 52 mg/m³
General population, Consumer - Dermal; Long term systemic effects: 1650 mg/kg/day

PNEC
- Fresh water; 0.24 mg/l
- marine water; 0.024 mg/l
- STP; 10000 mg/l
- Sediment (Freshwater); 5.45 mg/kg
- Sediment (Marinewater); 0.545 mg/kg
- Soil; 0.946 mg/kg

1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL,N-C8-18 (EVEN NUMBERED) ACYL DERVIS, HYDROXIDES INNER SALTS (CAS: 97862-59-4)

Ingredient comments SUP = Supplier's recommendation.

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DNEL

Workers - Dermal; Long term systemic effects: 12.5 mg/kg/day
Workers - Inhalation; Long term systemic effects: 44 mg/m³
General population - Dermal; Long term systemic effects: 7.5 mg/kg/day
General population - Oral; Long term systemic effects: 7.5 mg/m³
General population - Inhalation; Long term systemic effects: 13.04 mg/m³

PNEC

- Fresh water; 0.013 mg/l
- marine water; 0.001 mg/l
- Sediment (Freshwater); 11.1 mg/kg/day
- Sediment (Marinewater); 1.11 mg/kg/day
- Soil; 0.85 mg/kg
- STP; 3000 mg/l

ALCOHOLS C12 - 14 (7 - 7.5 EO) (CAS: 68439-50-9)

Ingredient comments No exposure limits known for ingredient(s).

C9-11 ALCOHOL ETHOXYLATE 6 - 8 MOLES OF EO (CAS: 68439-46-3)

Ingredient comments No exposure limits known for ingredient(s).

(R)-P-MENTHA-1,8-DIENE (CAS: 5989-27-5)

DNEL

Workers - Inhalation; Long term systemic effects: 66.7 mg/m³
Workers - Dermal; Long term systemic effects: 9.5 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 16.6 mg/m³
Consumer - Dermal; Long term systemic effects: 4.8 mg/kg/day
Consumer - Oral; Long term systemic effects: 4.8 mg/kg/day

PNEC

Fresh water; 14 µg/l
marine water; 1.4 µg/l
STP; 1.8 mg/l
Sediment (Freshwater); 3.85 mg/kg
Sediment (Marinewater); 0.385 mg/kg
Soil; 0.763 mg/kg

LINALYL ACETATE (CAS: 115-95-7)

DNEL

Industry - Dermal; Long term systemic effects: 2.5 mg/kg/day
Industry - Inhalation; Long term systemic effects: 2.75 mg/m³
Consumer - Inhalation; Long term systemic effects: 0.68 mg/m³
Workers - Dermal; Short term local effects: 8 mg/cm²
Workers - Dermal; Long term local effects: 8 mg/cm²
Consumer - Dermal; Short term local effects: 8 mg/cm²
Consumer - Dermal; Long term local effects: 8 mg/cm²

PNEC

- Fresh water; 0.011 mg/l
- marine water; 0.0011 mg/l
- Sediment (Freshwater); 0.609 mg/kg
- Sediment (Marinewater); 0.0609 mg/kg
- Soil; 0.115 mg/kg
- STP; 10 mg/l

8.2. Exposure controls

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Protective equipment

Appropriate engineering controls	Provide adequate ventilation.
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.
Hand protection	The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374.
Other skin and body protection	Wear suitable protective clothing as protection against splashing or contamination.
Hygiene measures	Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.
Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs. EN 136/140/141/145/143/149

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Yellow. Green.
Odour	Characteristic.
Odour threshold	No information available.
pH	pH (diluted solution): 10.0 - 11.4 @ 5%
Melting point	No information available.
Pour Point	No information available.
Freezing Point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	No information available.
Vapour density	No information available.

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Relative density	1.040 - 1.080 @ 20°C
Bulk density	No information available.
Solubility(ies)	No information available.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	No information available.
Explosive under the influence of a flame	No information available.
Oxidising properties	No information available.

9.2. Other information

Other information	Not determined.
Refractive index	No information available.
Particle size	No information available.
Molecular weight	No information available.
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not determined.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Not determined.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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Acute toxicity - oral

ATE oral (mg/kg)	25,000.0

Skin corrosion/irritation

Skin corrosion/irritation	No information available.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	No information available.

Germ cell mutagenicity

Genotoxicity - in vitro	No information available.

Carcinogenicity

Carcinogenicity	No information available.

Reproductive toxicity

Reproductive toxicity - fertility	No information available.

Specific target organ toxicity - single exposure

STOT - single exposure	No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	No information available.

Aspiration hazard

Aspiration hazard	No information available.

Inhalation	May cause respiratory irritation.
Ingestion	Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
Skin contact	May be slightly irritating to skin.
Eye contact	Causes serious eye damage.

Toxicological information on ingredients.

TETRAPOTASSIUM PYROPHOSPHATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	2,440.0
Species	Rat
ATE oral (mg/kg)	2,440.0

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} > 2000 mg/kg, Dermal, Rabbit OECD 402

Acute toxicity - inhalation

Notes (inhalation LC_{50})	LC_{50} > 1.1 mg/l, Inhalation, Rat OECD 403

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Skin corrosion/irritation

Animal data	Not irritating. Rabbit OECD 404

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye irritation. Rabbit OECD 405

Respiratory sensitisation

Respiratory sensitisation	Based on available data the classification criteria are not met. Not sensitising.

Skin sensitisation

Skin sensitisation	Based on available data the classification criteria are not met. Not sensitising. Mouse OECD 429

Germ cell mutagenicity

Genotoxicity - in vitro	Based on available data the classification criteria are not met. Ames test Negative. OECD 471

Carcinogenicity

Carcinogenicity	There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility	Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure	Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Based on available data the classification criteria are not met.

Aspiration hazard

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

Inhalation	Dust in high concentrations may irritate the respiratory system.
Ingestion	May cause discomfort if swallowed.
Skin contact	Skin irritation should not occur when used as recommended.
Eye contact	Causes serious eye irritation.

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	4,100.0
Species	Rat
ATE oral (mg/kg)	4,100.0

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} >2000 mg/kg, Dermal, Rat

Skin corrosion/irritation

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Skin corrosion/irritation	Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation	Not sensitising.

Skin sensitisation

Skin sensitisation	Not sensitising. Guinea pig

Germ cell mutagenicity

Genotoxicity - in vitro	Based on available data the classification criteria are not met. Ames test OECD 471

Carcinogenicity

Carcinogenicity	Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility	- NOAEL >300 mg/kg, Oral, Rat OECD 416
Reproductive toxicity - development	- NOAEL: >1000 mg/kg, Oral, Rat OECD 414

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	NOAEL >225 mg/kg, Oral, Rat OECD 408

Inhalation	Gas or vapour in high concentrations may irritate the respiratory system.
Ingestion	May cause burns in mucous membranes, throat, oesophagus and stomach.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.

1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL,N-C8-18 (EVEN NUMBERED) ACYL DERVIS, HYDROXIDES INNER SALTS

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	2,335.0
Species	Rat

Skin corrosion/irritation

Animal data	Slightly irritating. Rabbit OECD 404

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage. Rabbit OECD 405

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

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Skin sensitisation	No information available.
Germ cell mutagenicity	
Genotoxicity - in vitro	Gene mutation: Negative. OECD 476
Carcinogenicity	
Carcinogenicity	No information available.
Reproductive toxicity	
Reproductive toxicity - fertility	No evidence of reproductive toxicity in animal studies.
Reproductive toxicity - development	Maternal toxicity: - NOAEL: 100 mg/kg, , Developmental toxicity: - NOAEL: 300 mg/kg, , Teratogenicity: - NOAEL: 1000 mg/kg, , OECD 414
Specific target organ toxicity - single exposure	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard	
Aspiration hazard	No information available.

Inhalation	May cause respiratory system irritation.
Ingestion	Gastrointestinal symptoms, including upset stomach.
Skin contact	Slightly irritating.
Eye contact	Causes serious eye damage. Severe irritation, burning and tearing.

ALCOHOLS C12 - 14 (7 - 7.5 EO)

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	2,000.0
Species	Rat
Notes (oral LD_{50})	OECD 401
Acute toxicity - dermal	
Acute toxicity dermal (LD_{50} mg/kg)	2,000.0
Species	Rabbit
Notes (dermal LD_{50})	OECD 402
Acute toxicity - inhalation	
Acute toxicity inhalation (LC_{50} vapours mg/l)	1.6
Species	Rat
Notes (inhalation LC_{50})	OECD 403

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ATE inhalation (vapours mg/l)	1.6

Skin corrosion/irritation

Animal data	No information available.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation	No information available.

Skin sensitisation

Skin sensitisation	No information available.

Germ cell mutagenicity

Genotoxicity - in vitro	No information available.

Carcinogenicity

Carcinogenicity	No information available.

Reproductive toxicity

Reproductive toxicity - fertility	No information available.

Specific target organ toxicity - single exposure

STOT - single exposure	No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	No information available.

Aspiration hazard

Aspiration hazard	No information available.

Inhalation	Upper respiratory irritation.
Ingestion	Gastrointestinal symptoms, including upset stomach.
Skin contact	Slightly irritating.
Eye contact	Risk of serious damage to eyes.

C9-11 ALCOHOL ETHOXYLATE 6 - 8 MOLES OF EO

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} 300 - 2000 mg/kg, Oral, Rat
ATE oral (mg/kg)	500.0

Skin corrosion/irritation

Animal data	Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage.

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Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation No information available.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard No information available.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing. Harmful by inhalation.

Ingestion Gastrointestinal symptoms, including upset stomach. Harmful if swallowed.

Skin contact May cause defatting of the skin but is not an irritant.

Eye contact Causes serious eye irritation.

SECTION 12: Ecological information

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Ecological information on ingredients.

TETRAPOTASSIUM PYROPHOSPHATE

Ecotoxicity The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL,N-C8-18 (EVEN NUMBERED) ACYL DERVIS, HYDROXIDES INNER SALTS

Ecotoxicity Harmful to aquatic life with long lasting effects.

ALCOHOLS C12 - 14 (7 - 7.5 EO)

Ecotoxicity The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

ALL PURPOSE CLEANER CONC

C9-11 ALCOHOL ETHOXYLATE 6 - 8 MOLES OF EO

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

Toxicity Not considered toxic to fish.

Ecological information on ingredients.

TETRAPOTASSIUM PYROPHOSPHATE

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: > 100 mg/l, Oncorhynchus mykiss (Rainbow trout)
OECD 203

Acute toxicity - aquatic invertebrates EC_{50}, 48 hours: 100 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC_{50}, 72 hours: >100 mg/l, Algae
EC_{50}, 72 hours: > 100 mg/l, Desmodesmus subspicatus
OECD 201

Acute toxicity - microorganisms EC_{50}, 3 hours: >1000 mg/l, Activated sludge
OECD 209

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 96 hours: =100 mg/l, Fish

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

Acute aquatic toxicity

Acute toxicity - fish LC_{50}, 96 hours: >7.1 mg/l, Fish
OECD 203

Acute toxicity - aquatic invertebrates EC_{50}, 48 hours: 7.4 mg/l, Daphnia magna
OECD 202
NOEC, 48 hours: 0.27 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC_{50}, 72 hours: 27.7 mg/l, Algae
OECD 201

1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL,N-C8-18 (EVEN NUMBERED) ACYL DERVIS, HYDROXIDES INNER SALTS

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

$LE(C)_{50}$ 0.1 < L(E)C50 ≤ 1

Acute toxicity - fish LC50, 96 hours: 1.11 mg/l, Pimephales promelas (Fat-head Minnow)
OECD 203

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Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 1.9 mg/l, Daphnia magna OECD 202

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	NOEC, 37 days: 0.135 mg/l, Oncorhynchus mykiss (Rainbow trout) OECD 210
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.3 mg/l, Daphnia magna OECD 211

ALCOHOLS C12 - 14 (7 - 7.5 EO)

Toxicity	The product contains a substance which is harmful to aquatic organisms.

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates	NOEC, : 0.77 mg/l, Daphnia magna

C9-11 ALCOHOL ETHOXYLATE 6 - 8 MOLES OF EO

Toxicity	Not considered toxic to fish.

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

TETRAPOTASSIUM PYROPHOSPHATE

Persistence and degradability	There are no data on the degradability of this product.

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

Persistence and degradability	The product is readily biodegradable.
Biodegradation	- Degradation (%) 100: 28 days

1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL,N-C8-18 (EVEN NUMBERED) ACYL DERVIS, HYDROXIDES INNER SALTS

Persistence and degradability	The product is readily biodegradable.
Biodegradation	- Degradation 91.6%: 28 days OECD 301B

ALCOHOLS C12 - 14 (7 - 7.5 EO)

Persistence and degradability	The surfactant(s) contained in this product 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.

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Biodegradation - Degradation (%) 90:
OECD 301

C9-11 ALCOHOL ETHOXYLATE 6 - 8 MOLES OF EO

Persistence and degradability This surfactant complies 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.

Biodegradation Water - Degradation (%) 60: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

TETRAPOTASSIUM PYROPHOSPHATE

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating. BCF: < 3,

Partition coefficient log Pow: 0.3

1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL,N-C8-18 (EVEN NUMBERED) ACYL DERVIS, HYDROXIDES INNER SALTS

Bioaccumulative potential The product is not bioaccumulating. BCF: 71,

Partition coefficient No information available.

ALCOHOLS C12 - 14 (7 - 7.5 EO)

Bioaccumulative potential No data available on bioaccumulation. BCF: 12.7,

Partition coefficient No information available.

C9-11 ALCOHOL ETHOXYLATE 6 - 8 MOLES OF EO

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient log Pow: 3.11 - 4.19

12.4. Mobility in soil

Mobility Not determined.

Ecological information on ingredients.

TETRAPOTASSIUM PYROPHOSPHATE

ALL PURPOSE CLEANER CONC

Mobility The product is soluble in water.

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

Mobility The product is soluble in water.

1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL,N-C8-18 (EVEN NUMBERED) ACYL DERVIS, HYDROXIDES INNER SALTS

Mobility The product is soluble in water.

ALCOHOLS C12 - 14 (7 - 7.5 EO)

Mobility The product is soluble in water.

C9-11 ALCOHOL ETHOXYLATE 6 - 8 MOLES OF EO

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

TETRAPOTASSIUM PYROPHOSPHATE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL,N-C8-18 (EVEN NUMBERED) ACYL DERVIS, HYDROXIDES INNER SALTS

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

ALCOHOLS C12 - 14 (7 - 7.5 EO)

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

C9-11 ALCOHOL ETHOXYLATE 6 - 8 MOLES OF EO

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not determined.

Ecological information on ingredients.

TETRAPOTASSIUM PYROPHOSPHATE

Other adverse effects Not determined.

1-PROPANAMINIUM, 3-AMINO-N-(CARBOXYMETHYL)-N,N-DIMETHYL,N-C8-18 (EVEN NUMBERED) ACYL DERVIS, HYDROXIDES INNER SALTS

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Other adverse effects Not determined.

ALCOHOLS C12 - 14 (7 - 7.5 EO)

Other adverse effects No information required.

C9-11 ALCOHOL ETHOXYLATE 6 - 8 MOLES OF EO

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Do not puncture or incinerate, even when empty. Waste should be treated as controlled waste.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

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EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).
Restrictions (Annex XVII Regulation 1907/2006)	This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES. Entry number: 3

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
Kow: Octanol-water partition coefficient.
LC_{50}: Lethal Concentration to 50 % of a test population.
LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
vPvB: Very Persistent and Very Bioaccumulative.
IARC: International Agency for Research on Cancer.
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
cATpE: Converted Acute Toxicity Point Estimate.
BCF: Bioconcentration Factor.
BOD: Biochemical Oxygen Demand.
EC_{50}: 50% of maximal Effective Concentration.
LOAEC: Lowest Observed Adverse Effect Concentration.
LOAEL: Lowest Observed Adverse Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
LOEC: Lowest Observed Effect Concentration.
DMEL: Derived Minimal Effect Level.
EL50: Exposure Limit 50
hPa: Hectopascal
LL50: Lethal Loading fifty
OECD: Organisation for Economic Co-operation and Development
POW: Octanol-water partition coefficient
SCBA: self-contained breathing apparatus
STP: Sewage Treatment Plant
VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

Classification procedures according to Regulation (EC) 1272/2008

Eye Dam. 1 - H318: Calculation method.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

11/02/2022

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Version number	1.000
SDS number	63515
SDS status	Approved.
Hazard statements in full	H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
Signature	Jitendra Panchal

Exposure scenario
Industrial use of Ethanol as fuel source

Identification

Product name	Ethanol
REACH registration number	01-2119457610-43-XXXX
CAS number	64-17-5
EC number	200-578-6
EU index number	603-002-00-5
Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 +44 1274 267306 SDS.EMEA@univarsolutions.com

1. Title of exposure scenario

Main title	Industrial use of Ethanol as fuel source
Process scope	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.
Main sector	SU3 Industrial uses

Environment

Environmental release category	ERC7 Use of functional fluid at industrial site

Worker

Process category	PROC16 Use of fuels

2. Conditions of use affecting exposure (Industrial - Environment 1)

Product characteristics

Physical state	Liquid
Concentration details	Covers concentrations up to 100 %.

Amounts used

Regional use tonnage: 30000 tonnes/year
Annual amount used in the EU: 300000 tonnes

Frequency and duration of use

Continuous.
Emission days: 300 days/year

Industrial use of Ethanol as fuel source

Environmental factors not influenced by risk management measures

Dilution Receiving water dilution (fresh or marine): 18000 m³/day

Risk management measures

Good practice Carefully handle the substance to minimise releases.

Technical measures When not in use, keep containers tightly closed. Avoid discharge into drains and the aquatic environment.

STP type Municipal STP.

STP details Assumed domestic sewage treatment plant flow: 2000 m³/day
Removal efficiency (total): 90%

Conditions and measures related to external treatment of waste for disposal

Sludge treatment Sludge is disposed of or recovered.

Disposal method Contain and dispose of waste according to local regulations. Incineration, disposal or recycling at specific offsite provider.

2. Conditions of use affecting exposure (Workers - Health 1)

Product characteristics

Physical state Liquid

Vapour pressure 5.73 kPa @ 20°C

Concentration details Covers concentrations up to 100 %.

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently).

Human factors not influenced by risk management

Potentially exposed body parts Palm of one hand. Covers skin contact area up to 240 cm².

Other given operational conditions affecting workers exposure

Setting Indoor.

Temperature Assumes activities are at ambient temperature (unless stated differently).

Technical conditions and measures at process level (source) to prevent release

Technical protective measures No specific risk management measure identified beyond those operational conditions stated.

Organisational measures to prevent/limit releases, dispersion and exposure

Organisational measures Assumes a good basic standard of occupational hygiene is implemented.

Risk management measures

No specific measures identified.

3. Exposure estimation (Environment 1)

Assessment method ECETOC TRA v2.0 Environment

Environmental exposure STP: Exposure 0.053 mg/l, PNEC 580 mg/l, RCR 0.0000914
Fresh water: Exposure 0.0152 mg/l, PNEC 0.96 mg/l, RCR 0.000158
Soil: Exposure 0.0006 mg/kg, PNEC 0.63 mg/kg, RCR 0.000952
Marine water: Exposure 0.0016 mg/l, PNEC 0.79 mg/l, RCR 0.00203

Industrial use of Ethanol as fuel source

3. Exposure estimation (Health 1)

Assessment method	ECETOC TRA v2.0 Worker
Exposure	Worker - inhalation: Exposure 9.6 mg/m³, DNEL 950 mg/m³, RCR 0.0101 Worker - dermal: Exposure 0.3 mg/kg/day, DNEL 343 mg/kg/day, RCR 0.000875 Worker - all relevant routes: Exposure 1.7 mg/kg/day, DNEL 343 mg/kg/day, RCR 0.00496 Worst case assumption

Exposure scenario
Professional use of Ethanol as fuel source

Identification

Product name	Ethanol
REACH registration number	01-2119457610-43-XXXX
CAS number	64-17-5
EC number	200-578-6
EU index number	603-002-00-5
Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 +44 1274 267306 SDS.EMEA@univarsolutions.com

1. Title of exposure scenario

Main title	Professional use of Ethanol as fuel source
Process scope	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.
Main sector	SU22 Professional uses

Environment

Environmental release category	ERC9a Widespread use of functional fluid (indoor) ERC9b Widespread use of functional fluid (outdoor)

Worker

Process category	PROC16 Use of fuels

2. Conditions of use affecting exposure (Industrial - Environment 1)

Product characteristics

Physical state	Liquid
Concentration details	Covers concentrations up to 100 %.

Amounts used

Regional use tonnage: 380000 tonnes/year
Annual amount used in the EU: 3800000 tonnes

Frequency and duration of use

Continuous.
Emission days: 365 days/year

Professional use of Ethanol as fuel source

Environmental factors not influenced by risk management measures

Dilution	Receiving water dilution (fresh or marine): 18000 m³/day

Risk management measures

Good practice	Carefully handle the substance to minimise releases.
Technical measures	When not in use, keep containers tightly closed. Avoid discharge into drains and the aquatic environment.
STP type	Municipal STP.
STP details	Assumed domestic sewage treatment plant flow: 2000 m³/day Removal efficiency (total): 90%

Conditions and measures related to external treatment of waste for disposal

Sludge treatment	Sludge is disposed of or recovered.
Disposal method	Contain and dispose of waste according to local regulations. Incineration, disposal or recycling at specific offsite provider.

2. Conditions of use affecting exposure (Workers - Health 1)

Product characteristics

Physical state	Liquid
Vapour pressure	5.73 kPa @ 20°C
Concentration details	Covers concentrations up to 100 %.

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently).

Human factors not influenced by risk management

Potentially exposed body parts	Palm of one hand. Covers skin contact area up to 240 cm².

Other given operational conditions affecting workers exposure

Setting	Indoor.
Temperature	Assumes activities are at ambient temperature (unless stated differently).

Technical conditions and measures at process level (source) to prevent release

Technical protective measures	No specific risk management measure identified beyond those operational conditions stated.

Organisational measures to prevent/limit releases, dispersion and exposure

Organisational measures	Assumes a good basic standard of occupational hygiene is implemented.

Risk management measures

No specific measures identified.

3. Exposure estimation (Environment 1)

Assessment method	ECETOC TRA v2.0 Environment
Environmental exposure	STP: Exposure 0.065 mg/l, PNEC 580 mg/l, RCR 0.000112 Fresh water: Exposure 0.0240 mg/l, PNEC 0.96 mg/l, RCR 0.025 Soil: Exposure 0.0273 mg/kg, PNEC 0.63 mg/kg, RCR 0.0433 Marine water: Exposure 0.0016 mg/l, PNEC 0.79 mg/l, RCR 0.00203

Professional use of Ethanol as fuel source

3. Exposure estimation (Health 1)

Assessment method	ECETOC TRA v2.0 Worker
Exposure	Worker - inhalation: Exposure 9.6 mg/m³, DNEL 950 mg/m³, RCR 0.0101 Worker - dermal: Exposure 0.3 mg/kg/day, DNEL 343 mg/kg/day, RCR 0.000875 Worker - all relevant routes: Exposure 1.7 mg/kg/day, DNEL 343 mg/kg/day, RCR 0.00496 Worst case assumption

Exposure scenario
Consumer use of Ethanol as automotive fuel

Identification

Product name	Ethanol
REACH registration number	01-2119457610-43-XXXX
CAS number	64-17-5
EC number	200-578-6
EU index number	603-002-00-5
Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 +44 1274 267306 SDS.EMEA@univarsolutions.com

1. Title of exposure scenario

Main title	Consumer use of Ethanol as automotive fuel
Process scope	Covers consumer uses of automotive fuels only.
Product category	PC13 Fuels.
Main sector	SU21 Consumer uses

Environment

Environmental release category	ERC9a Widespread use of functional fluid (indoor) ERC9b Widespread use of functional fluid (outdoor)

2. Conditions of use affecting exposure (Non-industrial - Environment 1)

Product characteristics

Physical state	Liquid

Amounts used

Annual amount for wide dispersive uses: 3800000 tonnes

Frequency and duration of use

Emission days: 365 days/year

Environmental factors not influenced by risk management measures

Dilution	Receiving surface water flow: 18000 m³/day
Other factors	Covers use at ambient temperatures.

Risk management measures

Consumer use of Ethanol as automotive fuel

Good practice	Carefully pour from containers.
Technical measures	Do not discharge into drains or watercourses or onto the ground.

Conditions and measures related to external treatment of waste for disposal

Waste treatment	This substance is consumed during use and no waste of the substance is generated.

2. Conditions of use affecting exposure (Non-industrial - Health 1)

Product characteristics

Physical state	Liquid
Concentration details	Covers concentrations up to 100 %.

Amounts used

Amount per use: 100 litre

Frequency and duration of use

Covers frequency up to 1 day/week, , .
Application duration: <5 minutes

Other given operational conditions affecting Non-industrial exposure

Setting	Outdoor.
Temperature	Covers use at ambient temperatures.

Other given operational conditions affecting Non-industrial exposure

No specific risk management measure identified beyond those operational conditions stated.

3. Exposure estimation (Environment 1)

Assessment method	ECETOC TRA v2.0 Environment
Environmental exposure	STP: Exposure 0.065 mg/l, PNEC 580 mg/l, RCR 0.000112 Fresh water: Exposure 0.0240 mg/l, PNEC 0.96 mg/l, RCR 0.025 Soil: Exposure 0.0273 mg/kg, PNEC 0.63 mg/kg, RCR 0.0433 Marine water: Exposure 0.0034 mg/l, PNEC 0.79 mg/l, RCR 0.00430

3. Exposure estimation (Health 1)

Assessment method	ConsExpo v4.1
Exposure	Consumer - dermal: Exposure 35.00 mg/kg/day, DNEL 206 mg/kg/day, RCR 0.170 Consumer - inhalation: Exposure 1.54 mg/m³, DNEL 144 mg/m³, RCR 0.0107

Worst case assumption

Exposure scenario
Consumer use of Ethanol as domestic fuel

Identification

Product name	Ethanol
REACH registration number	01-2119457610-43-XXXX
CAS number	64-17-5
EC number	200-578-6
EU index number	603-002-00-5
Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 +44 1274 267306 SDS.EMEA@univarsolutions.com

1. Title of exposure scenario

Main title	Consumer use of Ethanol as domestic fuel
Process scope	Covers consumer uses in liquid fuels.
Product category	PC13 Fuels.
Main sector	SU21 Consumer uses

Environment

Environmental release category	ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

2. Conditions of use affecting exposure (Non-industrial - Environment 1)

Product characteristics

Physical state	Liquid

Amounts used

Annual amount for wide dispersive uses: 10000 tonnes

Frequency and duration of use

Emission days: 365 days/year

Environmental factors not influenced by risk management measures

Dilution	Receiving surface water flow: 18000 m³/day

Consumer use of Ethanol as domestic fuel

Other factors	Covers use at ambient temperatures.

Risk management measures

Good practice	Carefully pour from containers.
Technical measures	Do not discharge into drains or watercourses or onto the ground.

Conditions and measures related to external treatment of waste for disposal

Waste treatment	This substance is consumed during use and no waste of the substance is generated.

2. Conditions of use affecting exposure (Non-industrial - Health 1)

Product characteristics

Physical state	Liquid
Concentration details	Covers concentrations up to 100 %.

Amounts used

Amount per use: 1 litre

Frequency and duration of use

Covers frequency up to 1 day/week, , .
Application duration: <5 minutes

Human factors not influenced by risk management

Potentially exposed body parts	Palm of one hand. Covers skin contact area up to 210 cm².

Other given operational conditions affecting Non-industrial exposure

Setting	Indoor/outdoor use.
Temperature	Covers use at ambient temperatures.

Other given operational conditions affecting Non-industrial exposure

Consumer information	Avoid splashing. If risk of splashing, wear safety goggles or face shield.

No specific risk management measure identified beyond those operational conditions stated.

3. Exposure estimation (Environment 1)

Assessment method	ECETOC TRA v2.0 Environment
Environmental exposure	STP: Exposure 0.340 mg/l, PNEC 580 mg/l, RCR 0.000690 Fresh water: Exposure 0.0447 mg/l, PNEC 0.96 mg/l, RCR 0.0466 Soil: Exposure 0.0003 mg/kg, PNEC 0.63 mg/kg, RCR 0.000476 Marine water: Exposure 0.0044 mg/l, PNEC 0.79 mg/l, RCR 0.00557

3. Exposure estimation (Health 1)

Assessment method	ConsExpo v4.1
Exposure	Consumer - dermal: Exposure 70.00 mg/kg/day, DNEL 206 mg/kg/day, RCR 0.340 Consumer - inhalation: Exposure 0.81 mg/m³, DNEL 144 mg/m³, RCR 0.000563

Worst case assumption