

SAFETY DATA SHEET

WASHCHEMICAL Emulsifier

Commission Regulation (EU) No 2015/830 of 28 May 2015. According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

1.1. Product identifier

Product name WASHCHEMICAL Emulsifier
Product number 7197/22319
UFI UFI: MVWM-007J-600Q-TKGS

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

Identified uses Detergent. Cleaning agent.

1.3. Details of the supplier of the safety data sheet

Supplier WashCo
Unit 11
Arnhem Road
Newbury
Berkshire
RG14 5RU
T: 08000 546 546

1.4. Emergency telephone number

Emergency telephone WashCo: Tel: 08000 546 546 (Mon - Fri 9am-5pm)
National emergency telephone number NHS Direct 111 (GB) National Poisons Information Service Tel: +44 344 892 0111 (UK) - Medical Professionals Only National Poisons Information Centre Tel: +353 (01) 809 2566 (Ireland) - Healthcare Professionals only (24 hour service)

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.
P310 Immediately call a POISON CENTER/ doctor.
Contains PEG-5 C13 Oxo Alcohol, PEG-7-C10 Oxo Alcohol
Detergent labelling 15 - < 30% non-ionic surfactants, 5 - < 15% aliphatic hydrocarbons, < 5% optical brighteners, < 5% perfumes

2.3. Other hazards

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

PEG-5 C13 Oxo Alcohol		15-30%
CAS number: 69011-36-5	EC number: 931-138-8	
Classification Eye Irrit. 2 - H319 Aquatic Chronic 3 - H412		
PEG-7-C10 Oxo Alcohol		10-15%
CAS number: 68439-45-2	EC number: 614-481-5	
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318		
MONOPROPYLENE GLYCOL		5-10%
CAS number: 57-55-6	EC number: 200-338-0	REACH registration number: 01-2119456809-23-XXXX
Classification Not Classified		
ETHANOL		3-5%
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01-2119457610-43-XXXX
Classification Flam. Liq. 2 - H225		
METHANOL		<1%
CAS number: 67-56-1	EC number: 200-659-6	
Classification Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370		
Diethyl phthalate		<1%
CAS number: 84-66-2	EC number: 201-550-6	
Classification Not Classified		

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Non-volatile liquid product.

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Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available. Get medical attention immediately.
Skin contact	Remove contaminated clothing. Rinse immediately with plenty of water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

Inhalation	This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	May cause stomach pain or vomiting.
Skin contact	Skin irritation.
Eye contact	Severe irritation, burning and tearing.

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

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	Fire or high temperatures create: Vapours/gases/fumes of: Oxides of the following substances: Carbon. No unusual fire or explosion hazards noted.
Hazardous combustion products	Fire or high temperatures create: Oxides of: Carbon.

5.3. Advice for firefighters

Protective actions during firefighting	If risk of water pollution occurs, notify appropriate authorities. Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
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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.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Absorb in vermiculite, dry sand or earth and place into containers. Flush spilled material into suitable retaining areas or container with large quantities of water.
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6.4. Reference to other sections

Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in Section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Avoid spilling. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist. Avoid contact with skin and eyes.
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7.2. Conditions for safe storage, including any incompatibilities

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Storage precautions Keep above the chemical's freezing point to avoid rupturing the container. Keep container tightly closed.

Storage class Chemical storage.

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

MONOPROPYLENE GLYCOL

Long-term exposure limit (8-hour TWA): WEL 150 ppm 474 mg/m³ total vapour and particulates

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

ETHANOL

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

Sk

Diethyl phthalate

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³

Short-term exposure limit (15-minute): WEL 10 mg/m³

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

PEG-5 C13 Oxo Alcohol (CAS: 69011-36-5)

DNEL Workers - Inhalation; Long term systemic effects: 294 mg/m³
 Consumer - Dermal; Long term systemic effects: 1250 mg/kg
 Consumer - Oral; Long term systemic effects: 25 mg/kg
 Workers - Dermal; Long term systemic effects: 2080 mg/kg
 Consumer - Inhalation; Long term systemic effects: 87 mg/m³

PNEC Sediment (Freshwater); 0.604 mg/kg
 Soil; 0.1 mg/kg
 Sediment (Marinewater); 0.0604 mg/kg
 Fresh water; 0.074 mg/l
 Intermittent release; 0.015 mg/l
 marine water; 0.0074 mg/l
 STP; 1.4 mg/l

MONOPROPYLENE GLYCOL (CAS: 57-55-6)

DNEL Workers - Inhalation; Long term systemic effects: 186 mg/m³
 Workers - Inhalation; Long term local effects: 10 mg/m³
 General population - Inhalation; Long term systemic effects: 50 mg/m³
 General population - Inhalation; Long term local effects: 10 mg/m³

PNEC - Fresh water; 206 mg/l
 - marine water; 26 mg/l
 - Sediment (Freshwater); 572 mg/l
 - Sediment (Marinewater); 57.2 mg/l
 - Soil; 50 mg/kg dw
 - STP; 20000 mg/l

ETHANOL (CAS: 64-17-5)

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DNEL

Industry - Inhalation; Short term local effects: 1900 mg/m³
 Industry - Dermal; Long term systemic effects: 343 mg/kg/day
 Industry - Inhalation; Long term systemic effects: 950 mg/m³
 Consumer - Inhalation; Short term local effects: 950 mg/m³
 Consumer - Dermal; Long term systemic effects: 206 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 114 mg/m³
 Consumer - Oral; Long term systemic effects: 87 mg/kg/day

PNEC

Industry - Fresh water; Long term 0.96 mg/l
 Industry - marine water; Long term 0.79 mg/l
 Industry - Intermittent release; Long term 2.75 mg/l
 Industry - STP; Long term 580 mg/l
 Industry - Sediment (Freshwater); Long term 3.6 mg/kg
 Industry - Sediment (Marinewater); Long term 2.9 mg/kg
 Industry - Soil; Long term 0.63 mg/kg

METHANOL (CAS: 67-56-1)

DNEL

Industry - Dermal; Short term systemic effects: 40 mg/kg/day
 Industry - Inhalation; Short term systemic effects: 260 mg/m³
 Industry - Dermal; Long term systemic effects: 40 mg/kg/day
 Industry - Inhalation; Long term systemic effects: 260 mg/m³
 Consumer - Dermal; Short term systemic effects: 8 mg/kg/day
 Consumer - Inhalation; Short term systemic effects: 50 mg/m³
 Consumer - Oral; Short term systemic effects: 8 mg/kg/day
 Consumer - Dermal; Long term systemic effects: 8 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 50 mg/m³

PNEC

Industry - Fresh water; Long term 20.8 mg/l
 Industry - marine water; Long term 2.08 mg/l
 Industry - Intermittent release; Long term 1540 mg/l
 Industry - STP; Long term 100 mg/l
 Industry - Sediment (Freshwater); Long term 77 mg/kg

HEXYL CINNAMAL (CAS: 101-86-0)

DNEL

Workers - Inhalation; Long term systemic effects: 0.078 mg/m³
 Workers - Inhalation; Short term local effects: 6.28 mg/m³
 Workers - Dermal; Long term systemic effects: 18.2 mg/kg bw/day
 Workers - Dermal; Long term local effects: 0.525 mg/cm²
 Consumer - Inhalation; Long term systemic effects: 0.019 mg/m³
 Consumer - Inhalation; Short term local effects: 4.71 mg/m³
 Consumer - Dermal; Long term systemic effects: 9.11 mg/kg bw/day
 Consumer - Dermal; Long term local effects: 0.0787 mg/cm²
 Consumer - Dermal; Short term local effects: 0.0787 mg/cm²
 Consumer - Oral; Long term systemic effects: 0.056 mg/kg bw/day

PNEC

Fresh water; 0.00126 mg/l
 marine water; 0.000126 mg/l
 STP; 10 mg/l
 Sediment (Freshwater); 3.2 mg/kg dwt
 Sediment (Marinewater); 0.064 mg/kg dwt
 Soil; 9.51 mg/kg dwt

TETRAHYDROLINALOOL (CAS: 78-69-3)

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DNEL	<p>Workers - Inhalation; Long term systemic effects: 2.75 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 2.5 mg/kg bw/day</p> <p>Workers - Dermal; Short term local effects: 2.76 mg/cm²</p> <p>Consumer - Inhalation; Long term systemic effects: 0.68 mg/m³</p> <p>Consumer - Oral; Long term systemic effects: 0.2 mg/kg bw/day</p> <p>Consumer - Dermal; Long term systemic effects: 1.25 mg/kg bw/day</p> <p>Consumer - Dermal; Short term local effects: 2.76 mg/cm²</p>
PNEC	<p>Fresh water; 0.0089 mg/l</p> <p>marine water; 0.00089 mg/l</p> <p>STP; 450 mg/l</p> <p>Sediment (Freshwater); 0.0821 mg/kg</p> <p>Sediment (Marinewater); 0.00821 mg/kg</p> <p>Soil; 0.0112 mg/kg</p>

GERANIOL (CAS: 106-24-1)

DNEL	<p>Workers - Inhalation; Long term systemic effects: 161.6 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 12.5 mg/kg</p> <p>Consumer - Oral; Long term systemic effects: 13.75 mg/kg</p> <p>Consumer - Inhalation; Long term systemic effects: 47.8 mg/m³</p> <p>Consumer - Dermal; Long term systemic effects: 7.5 mg/kg</p>
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8.2. Exposure controls

Protective equipment



Appropriate engineering controls	No specific ventilation requirements.
Eye/face protection	The following protection should be worn: Chemical splash goggles.
Hand protection	Wear protective gloves made of the following material: Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC).
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Do not eat, drink or smoke when using this product.
Respiratory protection	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Blue-green.
Odour	Mild (or faint).
pH	pH (concentrated solution): 6-8
Relative density	~ 0.985 @ 20°C
Solubility(ies)	Soluble in water.

9.2. Other information

Other information	Not determined.
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SECTION 10: Stability and reactivity

10.1. Reactivity

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

Stability No particular stability concerns.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid Avoid contact with the following materials: Oxidising agents. Reducing agents.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong reducing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 2,764.3

Inhalation

This is unlikely to occur but symptoms similar to those of ingestion may develop.

Ingestion

Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

Skin contact

Irritating to skin.

Eye contact

Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

Acute and chronic health hazards Repeated exposure may cause chronic eye irritation. Mild dermatitis, allergic skin rash.

Toxicological information on ingredients.

PEG-5 C13 Oxo Alcohol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,001.0

Species Rat

ATE oral (mg/kg) 5,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rat

ATE dermal (mg/kg) 2,001.0

PEG-7-C10 Oxo Alcohol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 501.0

Species Rat

ATE oral (mg/kg) 501.0

MONOPROPYLENE GLYCOL

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Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 22,000.0

Species Rat

ATE oral (mg/kg) 22,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rabbit

ETHANOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 10,470.0

Species Rat

ATE oral (mg/kg) 10,470.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 17,100.0

Species Rabbit

ATE dermal (mg/kg) 17,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 124.7

Species Rat

ATE inhalation (vapours mg/l) 124.7

Carcinogenicity

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

Bis-(triazinylamino)-stilbene disulfonic acid derivative (R0130)

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,001.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rabbit

ATE dermal (mg/kg) 2,001.0

METHANOL

Acute toxicity - oral

ATE oral (mg/kg) 100.0

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Acute toxicity - dermal

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 3.0

Specific target organ toxicity - single exposure

STOT - single exposure LOAEL 2000 mg/kg, Oral, Rat

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEC 0.13 mg/l/6hr/day, Inhalation, Rat

d-LIMONENE

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 4,400.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 5,001.0

Species Rabbit

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

HEXYL CINNAMAL

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 3,100.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 3,001.0

Species Rabbit

ATE dermal (mg/kg) 3,001.0

2,4-Dimethylcyclohex-3-ene-1-carbaldehyde

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 3,900.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 2,500.0

Species Rabbit

Camphor

Acute toxicity - inhalation

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ATE inhalation (dusts/mists
mg/l) 1.5

GERANIOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 3,600.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 5,001.0

Species Rabbit

DAMASCONE (DELTA)

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 1,400.0

Species Mouse

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 5,001.0

Species Rabbit

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 30 mg/kg, Oral, Rat

SECTION 12: Ecological information

Ecotoxicity The levels of environmentally hazardous materials are below the limit that would cause the preparation to be classified as Dangerous to the Environment.

12.1. Toxicity

Toxicity Not considered toxic to fish.

Ecological information on ingredients.

PEG-5 C13 Oxo Alcohol

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >1-10 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >1-10 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 1-10 mg/l, Scenedesmus subspicatus
EC₁₀, 72 hours: >0.1-1 mg/l, Skeletonema costatum

Acute toxicity - microorganisms EC₁₀, 17 hours: >2500 mg/l, Activated sludge

PEG-7-C10 Oxo Alcohol

Acute aquatic toxicity

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Acute toxicity - fish	LC ₅₀ , 96 hours: 10-100 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 10-100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: 10-100 mg/l, Algae

MONOPROPYLENE GLYCOL

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 40613 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 43500 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: 19000 mg/l, EC ₅₀ , 96 hours: 19100 mg/l, Skeletonema costatum
Acute toxicity - microorganisms	NOEC, 18 hours: 20000 mg/l, PSEUDOMONAS PUTIDA

ETHANOL

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 13000 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	LC ₅₀ , 48 hours: 12340 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 48 hours: 12900 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC ₅₀ , 4 hours: 5800 mg/l, Activated sludge
Chronic aquatic toxicity	
Chronic toxicity - fish early life stage	NOEC, 24 days: >0.08 mg/l, Pimephales promelas (Fat-head Minnow)
Chronic toxicity - aquatic invertebrates	NOEC, 10 days: 9.6 mg/l, Daphnia magna

Bis-(triazinylamino)-stilbene disulfonic acid derivative (R0130)

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: >100 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: >100 mg/l, Algae
Acute toxicity - microorganisms	EC ₅₀ , : >100 mg/l, Activated sludge

METHANOL

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: 22000 mg/l, Selenastrum capricornutum

d-LIMONENE

WASHCHEMICAL Emulsifier

Acute aquatic toxicity

LE(C) ₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 0.7 mg/l, Pimephales promelas (Fat-head Minnow) LC ₅₀ , 96 hours: 0.8 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.4 mg/l, Daphnia magna EC ₅₀ , 48 hours: 69.6 mg/l, Daphnia
Acute toxicity - aquatic plants	NOEC, 96 hours: 4 mg/l, ErC ₅₀ , 72 hours: 8 mg/l, Desmodesmus subspicatus NOEC, 72 hours: 2.62 mg/l, Desmodesmus subspicatus

Chronic aquatic toxicity

M factor (Chronic)	1
Chronic toxicity - aquatic invertebrates	NOEC, 16 days: estimated 0.115 mg/l, Daphnia magna

HEXYL CINNAMAL

Acute aquatic toxicity

LE(C) ₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 1.7 mg/l, Fish LC ₅₀ , 96 hours: 3.1 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 3.86 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 6.87 mg/l, Pseudokirchneriella subcapitata

Cedr-8-enyl Methyl Ketone (Acetyl Cedrene)

Acute aquatic toxicity

LE(C) ₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Chronic aquatic toxicity	
M factor (Chronic)	1

2,4-Dimethylcyclohex-3-ene-1-carbaldehyde

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 76 mg/l, Daphnia
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GERANIOL

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 14 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 10.8 mg/l, Daphnia
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 13.1 mg/l, Algae

DAMASCONE (DELTA)

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Acute aquatic toxicity

LE(C) ₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 0.97 mg/l, <i>Oryzias latipes</i> (Red killifish)
Acute toxicity - aquatic plants	ErC ₅₀ , 72 hours: 4.54 mg/l, <i>Pseudokirchneriella subcapitata</i> NOEC, 72 hours: 0.883 mg/l, <i>Pseudokirchneriella subcapitata</i>

Chronic aquatic toxicity

M factor (Chronic)	1
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12.2. Persistence and degradability

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.

Ecological information on ingredients.

ETHANOL

Persistence and degradability	The product is biodegradable.
Biological oxygen demand	1000 mg/g
Chemical oxygen demand	1900 mg/g

METHANOL

Persistence and degradability The product is readily biodegradable.

d-LIMONENE

Persistence and degradability Not readily biodegradable.

HEXYL CINNAMAL

Persistence and degradability	Readily biodegradable.
Biodegradation	- 97%: 28 days

GERANIOL

Persistence and degradability	Readily biodegradable.
Biodegradation	- 82%: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

ETHANOL

Partition coefficient	log Pow: -0.35
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METHANOL

Partition coefficient	log Pow: -0.8
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d-LIMONENE

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Partition coefficient log Kow: 2.78-5.03

HEXYL CINNAMAL

Partition coefficient log Pow: 5.3

2,4-Dimethylcyclohex-3-ene-1-carbaldehyde

Partition coefficient log Pow: 2.34

GERANIOL

Partition coefficient log Pow: 2.6

DAMASCONE (DELTA)

Partition coefficient log Pow: 4.2

12.4. Mobility in soil

Mobility The product is non-volatile.

Ecological information on ingredients.

ETHANOL

Henry's law constant $3.3 \times 10^{-6} \text{ atm m}^3/\text{mol @ } ^\circ\text{C}$

Surface tension 24.5 mN/m @ 20°C

METHANOL

Mobility 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.

ETHANOL

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

METHANOL

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 None known.

Ecological information on ingredients.

ETHANOL

Other adverse effects The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.

METHANOL

WASHCHEMICAL Emulsifier

Other adverse effects

The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of in accordance with Local Authority Regulations

EURAL Code

SECTION 14: Transport information

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Transport labels

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

National regulations Health and Safety at Work etc. Act 1974 (as amended).
CHIP
The Control of Substances Hazardous to Health Regulations

EU legislation 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).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments	Revision is due to change of UFI number
Revision date	01/07/2021
Revision	5
Supersedes date	11/02/2019
SDS number	7197/22319

WASHCHEMICAL Emulsifier

Hazard statements in full

H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H370 Causes damage to organs .