

SAFETY DATA SHEET

WASHCHEMICAL Biological Laundry Detergent

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

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

1.1. Product identifier

Product name WASHCHEMICAL Biological Laundry Detergent
 Product number 7206/22498
 UFI UFI: 4NXM-J0F3-Y005-RN3R

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 Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide, Alcohols, C13-15, branched and linear, ethoxylated
 Detergent labelling 15 - < 30% phosphates, 5 - < 15% anionic surfactants, < 5% enzymes, < 5% non-ionic surfactants, < 5% optical brighteners, < 5% perfumes, Contains 1,2-BENZOISOTHIAZOL-3(2H)-ONE

2.3. Other hazards

WASHCHEMICAL Biological Laundry Detergent

Linalool 0.0043%		
CAS number: 78-70-6	EC number: 201-134-4	REACH registration number: 01-2119474016-42-0000
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317		
Alpha-IsoMethyl Ionone 0.0017%		
CAS number: 127-51-5	EC number: 204-846-3	
Classification Aquatic Chronic 2 - H411		
Diethyl phthalate <1%		
CAS number: 84-66-2	EC number: 201-550-6	
Classification Not Classified		
CITRAL 0.00062%		
CAS number: 5392-40-5	EC number: 226-394-6	REACH registration number: 01-2119462829-23-0000
Classification Skin Irrit. 2 - H315 Skin Sens. 1 - H317		
GERANIOL 0.00031%		
CAS number: 106-24-1	EC number: 203-377-1	
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317		
potassium hydroxide <1%		
CAS number: 1310-58-3	EC number: 215-181-3	REACH registration number: 01-2119487136-33-XXXX
Classification Met. Corr. 1 - H290 Acute Tox. 4 - H302 Skin Corr. 1A - H314 Eye Dam. 1 - H318		

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	May cause severe eye irritation.

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.
Unsuitable extinguishing media	None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards	None known.
Hazardous combustion products	Does not decompose when used and stored as recommended.

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.
For non-emergency personnel	Prevent further leakage or spillage if safe to do so. Keep away from incompatible products.
For emergency responders	Avoid discharge into drains or watercourses or onto the ground.

6.2. Environmental precautions

Environmental precautions	Collect and dispose of spillage as indicated in Section 13.
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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. Inform authorities if large amounts are involved.
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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. See Section 11 for additional information on health hazards.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Avoid spilling. Avoid contact with skin and eyes.
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Advice on general occupational hygiene When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

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

Storage class Unspecified 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

GLYCERINE VEG

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

subtilisin

Long-term exposure limit (8-hour TWA): WEL 0.00004 mg/m³

Sen

ETHANEDIOL

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

Short-term exposure limit (15-minute): WEL 104 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

potassium hydroxide

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit.

Sen = Capable of causing occupational asthma.

PENTASODIUM TRIPHOSPHATE (CAS: 7758-29-4)

DNEL	Workers - Dermal; Short term systemic effects: 0.375 mg/kg bw/day Workers - Inhalation; Short term systemic effects: 0.661 mg/m ³ Workers - Dermal; Long term systemic effects: 0.375 mg/kg bw/day Workers - Inhalation; Long term systemic effects: 0.661 mg/l General population - Dermal; Short term systemic effects: 0.375 mg/kg General population - Inhalation; Short term systemic effects: 0.66 mg/kg bw/day General population - Oral; Short term systemic effects: 0.75 mg/kg General population - Oral; Long term systemic effects: 0.75 mg/kg bw/day General population - Inhalation; Long term systemic effects: 0.661 mg/m ³ General population - Dermal; Long term systemic effects: 0.375 mg/kg bw/day
PNEC	- Fresh water; 0.005 mg/l - marine water; 0.005 mg/l - Intermittent release, Fresh water; 0.05 mg/l - Sediment (Freshwater); 0.19 mg/kg dw - Soil; 0.14 mg/kg dw

Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

DNEL	Workers - Dermal; Long term systemic effects: 85 mg/kg bw/day Workers - Inhalation; Long term systemic effects: 6 mg/m ³ Consumer - Dermal; Long term systemic effects: 42.5 mg/kg bw/day Consumer - Inhalation; Long term systemic effects: 1.5 mg/m ³ Consumer - Oral; Long term systemic effects: 0.425 mg/kg bw/day
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PNEC

- Fresh water; 0.268 mg/l
- marine water; 0.0268 mg/l
- Intermittent release; 0.055 mg/l
- STP; 5.6 mg/l
- Sediment (Freshwater); 8.1 mg/kg dw
- Sediment (Marinewater); 8.1 mg/kg dw
- Soil; 35 mg/kg dw

Distyryl Biphenyl Derivative (CAS: 27344-41-8)

DNEL

Workers - Dermal; Long term systemic effects: 53 mg/kg
 Consumer - Dermal; Long term systemic effects: 19 mg/kg
 Consumer - Oral; Long term systemic effects: 1.9 mg/kg
 Workers - Inhalation; Long term systemic effects: 20.5 mg/m³

PNEC

Fresh water; 0.0625 mg/l
 marine water; 0.00625 mg/l
 Intermittent release; 0.1028 mg/l
 STP; 100 mg/l
 Sediment (Freshwater); 198000 mg/kg
 Sediment (Marinewater); 19800 mg/kg
 Soil; 1 mg/kg

subtilisin (CAS: 9014-01-1)

DNEL

Workers - Dermal; Short term local effects: 0.2 %
 Professional/Consumers - Dermal; Short term local effects: 0.2 %

DMEL

Workers - Inhalation; Long term local effects: 60 ng/m³
 Professional/Consumers - Inhalation; Long term local effects: 15 ng/m³

PNEC

Fresh water; 0.06 µg/l
 marine water; 0.006 µg/l
 STP; 65000 µg/l

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	Safety glasses with side-shields (EN 166).
Hand protection	In case of repeated or prolonged contact wear gloves. Chemical resistant PVC gloves (to European standard EN 374 or equivalent)
Other skin and body protection	No specific clothing required
Respiratory protection	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Opaque liquid. Liquid.
Colour	White.
Odour	Perfume.
pH	pH (diluted solution): 7-8 @ 1 %
Melting point	> 10°C
Initial boiling point and range	> 100°C @ 760 mm Hg
Relative density	~ 1.21 @ 20°C
Solubility(ies)	Miscible with water.
Viscosity	1750-2200 cP @ 20°C

9.2. Other information

Other information	Not available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stability No particular stability concerns.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not 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 No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Oxides of the following substances: Carbon. Sulphur.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 16,778.52

Inhalation

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

Ingestion

May cause discomfort if swallowed.

Skin contact

Skin irritation should not occur when used as recommended.

Eye contact

Risk of serious damage to eyes.

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

Toxicological information on ingredients.

PENTASODIUM TRIPHOSPHATE

Acute toxicity - oral

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

Species Rat

ATE oral (mg/kg) 2,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 4,641.0

Species Rabbit

ATE dermal (mg/kg) 4,641.0

Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

Acute toxicity - oral

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

Species Rat

ATE oral (mg/kg) 2,001.0

Acute toxicity - dermal

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

Species Rat

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 85 mg/kg, Oral, Rat LOAEL 145 mg/kg, Oral, Rat NOAEL 440 mg/kg, Dermal, Mouse

GLYCERINE VEG

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 12,600.0

Species Rat

ATE oral (mg/kg) 12,600.0

Alcohols, C13-15, branched and linear, ethoxylated

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 500.0

Species Rat

Carboxymethyl Cellulose

Acute toxicity - oral

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

Species Rat

ATE oral (mg/kg) 2,001.0

Acute toxicity - dermal

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

Species Rabbit

ATE dermal (mg/kg) 2,001.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀
dust/mist mg/l) 5.6

Species Rat

ATE inhalation (dusts/mists
mg/l) 5.6

Distyryl Biphenyl Derivative

Acute toxicity - oral

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

Species Rat

Acute toxicity - dermal

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

Species Rat

ATE dermal (mg/kg) 2,001.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀
dust/mist mg/l) 3.9

Species Rat

subtilisin

Acute toxicity - oral

ATE oral (mg/kg) 500.0

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

1,2-benzisothiazol-3(2H)-one

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - inhalation

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ATE inhalation (vapours mg/l) 0.5

Allyl Amyl Glycolate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 302.0

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 1,105.0

ATE dermal (mg/kg) 1,100.0

TETRAHYDROLINALOOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 8,270.0

Species Rat

Acute toxicity - dermal

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

Species Rabbit

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

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

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potassium hydroxide

Acute toxicity - oral

ATE oral (mg/kg) 500.0

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

Environmental information currently available for the ingredients of this preparation indicates that it does not contain any ingredients currently classified as Dangerous for the Environment.

12.1. Toxicity

Toxicity

Not considered toxic to fish.

Ecological information on ingredients.

PENTASODIUM TRIPHOSPHATE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, : >1850 mg/l,

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >100 mg/l, Daphnia magna

Acute toxicity - aquatic plants ErC50, : 160 mg/l, Desmodosmus subspicatus

Chronic aquatic toxicity

Chronic toxicity - fish early life stage LOEC, 96 hours: 5 mg/l, Fish

Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 1-10 mg/l, Fish

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

Acute toxicity - aquatic plants IC₅₀, 72 hours: 10-100 mg/l, Algae
EC10, 72 days: 1.5 mg/l, Algae

Acute toxicity - microorganisms EC₅₀, 17 hours: 63 mg/l, PSEUDOMONAS PUTIDA

Chronic aquatic toxicity

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Chronic toxicity - fish early life stage NOEC, 72 days: 0.1-1 mg/l, Oncorhynchus mykiss (Rainbow trout)

Chronic toxicity - aquatic invertebrates EC₂₀, 32 days: 0.27 mg/l, Freshwater invertebrates

GLYCERINE VEG

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >5000 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >10000 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: >2900 mg/l, Algae

Alcohols, C13-15, branched and linear, ethoxylated

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 1-10 mg/l, Brachydanio rerio (Zebra Fish)

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

Acute toxicity - microorganisms EC₁₀, : >1000 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, : >0.1-<1 mg/l,

Carboxymethyl Cellulose

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >21000 mg/l, Oncorhynchus mykiss (Rainbow trout)

Distyryl Biphenyl Derivative

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >10 - <100 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: >1000 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: >10 - <100 mg/l, Scenedesmus subspicatus

Acute toxicity - microorganisms EC₅₀, 4 hours: >1000 mg/l, Activated sludge

subtilisin

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: 8.2 mg aep/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 586 micro grams aep/l, Daphnia

Acute toxicity - aquatic plants ErC₅₀, 72 hours: 830 micro grams aep/l, Algae

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d-LIMONENE

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, Desmodemus subspicatus NOEC, 72 hours: 2.62 mg/l, Desmodemus 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

1,2-benzisothiazol-3(2H)-one

Acute aquatic toxicity

LE(C) ₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 1.6 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 2.94 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 0.11 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC ₂₀ , 3 hours: 3.3 mg/l, Activated sludge

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

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Allyl Amyl Glycolate

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

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

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 76 mg/l, Daphnia

GERANIOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 14 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 10.8 mg/l, Daphnia

Acute toxicity - aquatic plants EC₅₀, 72 hours: 13.1 mg/l, Algae

Oxacyclohexadecen-2-one

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

M factor (Chronic) 1

potassium hydroxide

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 44 (24h) mg/l, Fish

DAMASCONE (DELTA)

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: 0.97 mg/l, Oryzias latipes (Red killifish)

Acute toxicity - aquatic plants ErC50, 72 hours: 4.54 mg/l, Pseudokirchneriella subcapitata
NOEC, 72 hours: 0.883 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

M factor (Chronic) 1

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.

subtilisin

WASHCHEMICAL Biological Laundry Detergent

Persistence and degradability Readily biodegradable.

d-LIMONENE

Persistence and degradability Not readily biodegradable.

HEXYL CINNAMAL

Persistence and degradability Readily biodegradable.

Biodegradation - 97%: 28 days

TETRAHYDROLINALOOL

Persistence and degradability Readily biodegradable.

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.

subtilisin

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Pow: < 0

d-LIMONENE

Partition coefficient log Kow: 2.78-5.03

HEXYL CINNAMAL

Partition coefficient log Pow: 5.3

TETRAHYDROLINALOOL

Partition coefficient log Pow: 3.3

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.

WASHCHEMICAL Biological Laundry Detergent

subtilisin

Mobility

Not applicable.

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.

subtilisin

Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects

None known.

Ecological information on ingredients.

subtilisin

Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods

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

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

WASHCHEMICAL Biological Laundry Detergent

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 addition of UFI number
Revision date	06/07/2021
Revision	6
Supersedes date	22/05/2019
SDS number	7206/22498
Hazard statements in full	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.