

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

1.1. Product identifier

Product form : Mixture
 Product name : FILZYM 150
 Product code : LIQ0378
 Type of product : Detergent

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

REALCO S.A.
 Avenue Albert Einstein, 15
 B-1348 Louvain-la-Neuve - Belgium
 T +32 (0)10 45 30 00 - F +32 (0)10 45 63 63
info@realco.be - www.realco.be

1.4. Emergency telephone number

Emergency number : Int+32-70-245.245

Country	Organisation/Company	Address	Emergency number	Comment
	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn B -1120 Brussels	+32 70 245 245	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 1 H318

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

Danger

Hazardous ingredients :

Amines, coco alkyldimethyl, N-oxides; 2-Ethylhexanol ethoxylate; C6 Alkyl Glucoside

Hazard statements (CLP) :

H318 - Causes serious eye damage

Precautionary statements (CLP) :

P280 - Wear protective gloves, eye protection, face shield
 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, a doctor

EUH-statements :

EUH208 - Contains Protease (Subtilisin). May produce an allergic reaction

2.3. Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Amines, coco alkyldimethyl, N-oxides	(CAS No) 61788-90-7 (EC no) 263-016-9 (REACH-no) 01-2119490061-47	1 - 5	Xn; R22 Xi; R41 Xi; R38 N; R50	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400
2-Ethylhexanol ethoxylate	(CAS No) 26468-86-0	1 - 5	Xi; R41	Eye Dam. 1, H318
Protease (Subtilisin)	(CAS No) 9014-01-1 (EC no) 232-752-2 (REACH-no) 01-2119480434-38	0.1 - 1	Xn; R22 R42 Xi; R41 Xi; R37/38 N; R50	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
C6 Alkyl Glucoside	(CAS No) 54549-24-5 (EC no) 259-217-6 (REACH-no) 01-2119492545-29	1 - 5	Xi; R41	Eye Dam. 1, H318

Full text of R- and H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If on skin, take off contaminated clothing. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air. Assure fresh air breathing.
First-aid measures after skin contact	: Flush with plenty of water.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth.

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

Symptoms/injuries after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/injuries after skin contact	: Redness. Repeated or prolonged skin contact may cause irritation.
Symptoms/injuries after eye contact	: Redness.
Symptoms/injuries after ingestion	: Abdominal pain, nausea.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: All extinguishing agents can be used.
Unsuitable extinguishing media	: None.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not combustible.
Explosion hazard	: Product is not explosive.
Reactivity in case of fire	: Stable under normal conditions of storage, handling and use.

5.3. Advice for firefighters

Precautionary measures fire	: Wear proper protective equipment.
Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Ensure adequate ventilation.
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6.1.1. For non-emergency personnel

Protective equipment : Personal protection. See Heading 8.2.
Emergency procedures : Evacuate area.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. See Heading 8.2.
Emergency procedures : Mark out the contaminated area with signs and prevent access to unauthorized personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Dike for recovery or absorb with appropriate material.
Methods for cleaning up : Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite or kieselguhr. Dilute residue with water.
Other information : Spill area may be slippery.

6.4. Reference to other sections

See Heading 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.
Storage temperature : 4 - 25 °C
Heat and ignition sources : Store away from direct sunlight or other heat sources.
Special rules on packaging : Keep only in original container.
Packaging materials : PEHD.

7.3. Specific end use(s)

Cleaning product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Protease (Subtilisin) (9014-01-1)		
Belgium	Limit value (mg/m ³)	0,00006 mg/m ³

8.2. Exposure controls

Appropriate engineering controls : Ensure adequate air ventilation.
Personal protective equipment : Safety glasses.
Hand protection : In case of repeated or prolonged contact wear gloves. (EN 134)
Eye protection : Chemical goggles or safety glasses. Eye protection (standard EN 166)
Skin and body protection : No special clothing/skin protection equipment is recommended under normal conditions of use
Respiratory protection : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation



Thermal hazard protection : Not applicable.
Environmental exposure controls : Prevent entry to sewers and public waters. Avoid release to the environment.
Other information : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. The equipment must be cleaned thoroughly after each use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light brown.
Odour	: characteristic.
Odour threshold	: Not established.
pH	: 7,2 - 7,6
Relative evaporation rate (butylacetate=1)	: Not tested
Melting point	: Not tested
Freezing point	: Not tested
Boiling point	: Not tested
Flash point	: Not tested
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not applicable
Flammability (solid, gas)	: Not applicable
Vapour pressure	: Not tested
Relative vapour density at 20 °C	: Not tested
Relative density	: 0,995 - 1,095
Solubility	: Material highly soluble in water.
Log Pow	: Not tested
Viscosity, kinematic	: Not tested
Viscosity, dynamic	: Not tested
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Explosive limits	: No data available

9.2. Other information

Additional information : None

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of storage, handling and use.

10.2. Chemical stability

Stable under normal conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

None.

10.5. Incompatible materials

None, to our knowledge.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

2-Ethylhexanol ethoxylate (26468-86-0)

LD50 oral	2000 - 5000 mg/kg
LD50 dermal	2000 - 5000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l

Amines, coco alkyldimethyl, N-oxides (61788-90-7)

LD50 oral rat	300 - 2000 mg/kg (OCED 401)
LD50 dermal rat	> 5000 mg/kg (OCED 402)

Protease (Subtilisin) (9014-01-1)

LD50 oral	1800 mg/kg bodyweight
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Skin corrosion/irritation	: Not classified pH: 7,2 - 7,6
Serious eye damage/irritation	: Causes serious eye damage. pH: 7,2 - 7,6
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

C6 Alkyl Glucoside (54549-24-5)	
LC50, Fish, Oncorhynchus mykiss (Rainbow trout)	> 100 mg/l (96 Hours)
EC50, daphnia, Daphnia magna	> 100 mg/l (48 Hours)
EC50, algae, Scenedesmus quadricauda	> 100 mg/l (72 Hours)
EC50	> 1000 mg/l (4 Hours)
2-Ethylhexanol ethoxylate (26468-86-0)	
LC50, Fish	13 mg/l (96 Hours)
EC50, daphnia, Daphnia magna	6,5 mg/l (48 Hours)
EC50, algae, Scenedesmus subspicatus	6,6 mg/l (72 Hours)
EC50	680 mg/l (4 Hours)
Amines, coco alkyldimethyl, N-oxides (61788-90-7)	
LC50, Fish, Pimephales promelas	1-10 mg/l (96 Hours)
EC50, daphnia, Daphnia magna	1 - 10 mg/l (48 Hours, (OCDE 202))
EC50, algae, Pseudokirchneriella subcapitata	0.1 - 1 mg/l (72 Hours, (OCDE 201))
Protease (Subtilisin) (9014-01-1)	
EC50, daphnia	586 µg /l (48 Hours)
ErC50, algae	830 µg /l (72 Hours)
LC50, fish	8,2 mg/l (96 Hours)

12.2. Persistence and degradability

C6 Alkyl Glucoside (54549-24-5)	
Persistence and degradability	Readily biodegradable.
2-Ethylhexanol ethoxylate (26468-86-0)	
Persistence and degradability	Readily biodegradable. Not established.
Amines, coco alkyldimethyl, N-oxides (61788-90-7)	
Persistence and degradability	Readily biodegradable.
Biodegradation	> 60 % (OECD 301B method)
Protease (Subtilisin) (9014-01-1)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

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Log Pow	Not tested
C6 Alkyl Glucoside (54549-24-5)	
Bioaccumulative potential	Slightly or not bioaccumulative.
2-Ethylhexanol ethoxylate (26468-86-0)	
Bioaccumulative potential	Slightly or not bioaccumulative. Not established.
Amines, coco alkyldimethyl, N-oxides (61788-90-7)	
Bioaccumulative potential	Unlikely.
Protease (Subtilisin) (9014-01-1)	
Log Pow	< 0

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Protease (Subtilisin) (9014-01-1)

Bioaccumulative potential	Not bioaccumulable.
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12.4. Mobility in soil

Amines, coco alkyldimethyl, N-oxides (61788-90-7)

Ecology - soil	low mobility.
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12.5. Results of PBT and vPvB assessment

Component	
Protease (Subtilisin) (9014-01-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Amines, coco alkyldimethyl, N-oxides (61788-90-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
C6 Alkyl Glucoside (54549-24-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Remove to an authorized waste treatment plant.
Sewage disposal recommendations	: May be discharged to wastewater treatment installation.
Waste disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point. WHEN TOTALLY EMPTY, containers are recyclable like any other packing.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 20 01 30 - detergents other than those mentioned in 20 01 29
R code/ D code	: D9 - Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12 (e.g. evaporation, drying, calcination, etc.)

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

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14.4. Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. 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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Detergent Regulation : Labelling of contents:

Component	%
amphoteric surfactants, non-ionic surfactants, anionic surfactants, phosphonates, polycarboxylates	<5%
enzymes	

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Indication of changes:

	Supersedes	Modified	
	Date of issue	Modified	
	Revision date	Modified	
15.1	Detergent Regulation : Labelling of contents	Modified	

Full text of R-, H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1

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Resp. Sens. 1	Sensitisation — Respiratory, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
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
EUH208	Contains . May produce an allergic reaction

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product