

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

1.1. Product identifier

Product form : Mixture
Product name : DEGRAZYM
Product code : LIQ0541
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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Full text of H-phrases: 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) :



GHS07

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H315 - Causes skin irritation
H319 - Causes serious eye irritation

Precautionary statements (CLP) :

P280 - Wear protective gloves, eye 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
P332+P313 - If skin irritation occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Alcohols, C12-C14, ethoxylated,sulfates sodium salts	(CAS No) 68891-38-3 (EC no) 500-234-8 (REACH-no) 01-2119488639-16	5 - 15	Skin Irrit. 2, H315 Eye Dam. 1, H318
2-methoxymethylethoxypropanol substance with a Community workplace exposure limit	(CAS No) 34590-94-8 (EC no) 252-104-2 (REACH-no) 01-2119450011-60	1 - 5	Not classified
1-methoxy-2-propanol, monopropylene glycol methyl ether	(CAS No) 107-98-2 (EC no) 203-539-1 (EC index no) 603-064-00-3 (REACH-no) 01-2119457435-35	1 - 5	Flam. Liq. 3, H226 STOT SE 3, H336
Alcohols, C12-15, ethoxylated EO (2-5)	(CAS No) 68439-50-9 (EC no) 500-213-3	0.1 - 1	Eye Dam. 1, H318 Aquatic Acute 1, H400
Amines, coco alkyldimethyl, N-oxides	(CAS No) 61788-90-7 (EC no) 263-016-9	1 - 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400

Name	Product identifier	Specific concentration limits
Alcohols, C12-C14, ethoxylated,sulfates sodium salts	(CAS No) 68891-38-3 (EC no) 500-234-8 (REACH-no) 01-2119488639-16	(5 =< C < 10) Eye Irrit. 2, H319 (C >= 10) Eye Dam. 1, H318

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

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). If on skin, take off contaminated clothing.
- First-aid measures after inhalation : Remove victim to fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Flush with plenty of water.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking, tears or redness persist.
- First-aid measures after ingestion : Rinse mouth.

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

- Symptoms/injuries after inhalation : Cough.
- Symptoms/injuries after skin contact : Redness. Repeated or prolonged skin contact may cause irritation.
- Symptoms/injuries after eye contact : Redness, pain. Blurred vision.
- 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.
- Hazardous decomposition products in case of fire : Thermal decomposition generates : carbon oxides (CO and CO₂).

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.

6.1.1. For non-emergency personnel

- Protective equipment : Personal protection. See Heading 8.2.
- Emergency procedures : Evacuate area. Spill area may be slippery.

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6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection. Personal 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. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Dike for recovery or absorb with appropriate material.
Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Dilute residue with water. Rinse with plenty of water.
Other information : Use suitable disposal containers. 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

- Technical measures : Install a retention tank.
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.
Storage area : Protect from freezing. Keep away from food, drink and animal feeding stuffs.
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

No additional information available

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 : None necessary.



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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
Colour : Green.

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Odour	: characteristic.
Odour threshold	: Not determined
pH	: 8,5 - 9
Relative evaporation rate (butylacetate=1)	: Not tested
Relative evaporation rate (ether=1)	: Not tested
Melting point	: Not tested
Freezing point	: Not tested
Boiling point	: Not tested
Flash point	: Not tested
Critical temperature	: Not tested
Auto-ignition temperature	: Not tested
Decomposition temperature	: Not tested
Flammability (solid, gas)	: Not applicable
Vapour pressure	: Not tested
Relative vapour density at 20 °C	: Not applicable
Relative density	: 0,97 - 1,07
Solubility	: Material highly soluble in water.
Log Pow	: Not tested
Log Kow	: Not tested
Viscosity, kinematic	: Not tested
Viscosity, dynamic	: Not tested
Explosive properties	: Product is not explosive.
Oxidising properties	: Not applicable.
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

Stable under normal conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

Stable under normal conditions of storage, handling and use.

10.4. Conditions to avoid

None, to our knowledge.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

In the event of fire, may decompose : Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

2-methoxymethylethoxypropanol (34590-94-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
Alcohols, C12-C14, ethoxylated,sulfates sodium salts (68891-38-3)	
LD50 oral rat	> 2000 mg/kg
1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)	
LD50 oral rat	4016 mg/kg
LD50 dermal rabbit	2000 mg/kg May produce skin irritation.
LC50 inhalation rat (mg/l)	27596 mg/l (6hours)May cause irritation to the respiratory tract.
Alcohols, C12-15, ethoxylated EO (2-5) (68439-50-9)	
LD50 oral rat	> 2000 mg/kg

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Skin corrosion/irritation	: Causes skin irritation. pH: 8,5 - 9
Serious eye damage/irritation	: Causes serious eye irritation. pH: 8,5 - 9
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

2-methoxymethylethoxypropanol (34590-94-8)	
LC50, Fish, Pimephales promelas	> 10000 mg/l (96 Hours)
EC50, daphnia, Daphnia magna	> 100 mg/l (48 Hours)
EC50, algae	> 100 mg/l (72 Hours)
Alcohols, C12-C14, ethoxylated,sulfates sodium salts (68891-38-3)	
LC50, Fish, Leuciscus idus (golden orfe)	1-10 mg/l (96 Hours)
1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)	
LC50, Fish, Leuciscus idus (golden orfe)	6812 mg/l (96 Hours)
EC50, daphnia, Daphnia magna	23300 mg/l (48 Hours)
Alcohols, C12-15, ethoxylated EO (2-5) (68439-50-9)	
LC50, fish	< 1 mg/l (96 Hours)
EC50, daphnia	< 1 mg/l (48 Hours)
Amines, coco alkyldimethyl, N-oxides (61788-90-7)	
LC50, Fish, acute, Danio rerio	10-100 mg/l (96 Hours, (OECD 203))
EC50, daphnia, Daphnia magna	4.4 mg/l (48 Hours, (US-EPA))
EC50, algae, Pseudokirchneriella subcapitata	0.11 mg/l (96 Hours, (US-EPA))
EC50, Bacteria, Pseudomonas putida	190 mg/l (16 Hours, (DIN 38412 part 8))

12.2. Persistence and degradability

DEGRAZYM	
Biodegradation	> 99 % (OECD 302B method)
2-methoxymethylethoxypropanol (34590-94-8)	
Persistence and degradability	Biodegradable.
Biodegradation	77 - 84 % 28 days
Alcohols, C12-C14, ethoxylated,sulfates sodium salts (68891-38-3)	
Biodegradation	> 70 % (OECD 302B method)
1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)	
Persistence and degradability	Readily biodegradable.
Alcohols, C12-15, ethoxylated EO (2-5) (68439-50-9)	
Persistence and degradability	Readily biodegradable.
Amines, coco alkyldimethyl, N-oxides (61788-90-7)	
Persistence and degradability	Readily biodegradable.
Biodegradation	> 80 % (OECD 302 B)

12.3. Bioaccumulative potential

DEGRAZYM	
Log Pow	Not tested
Log Kow	Not tested
2-methoxymethylethoxypropanol (34590-94-8)	
Bioaccumulative potential	Not expected.
1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)	
Bioaccumulative potential	Not bioaccumulable.

12.4. Mobility in soil

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2-methoxymethylethoxypropanol (34590-94-8)	
Ecology - soil	Soluble in water.
1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)	
Ecology - soil	Soluble in water.

12.5. Results of PBT and vPvB assessment

Component	
2-methoxymethylethoxypropanol (34590-94-8)	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
1-methoxy-2-propanol, monopropylene glycol methyl ether (107-98-2)	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)	: Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods	: Refer to manufacturer/supplier for information on recovery/recycling.
Waste disposal recommendations	: WHEN TOTALLY EMPTY, containers are recyclable like any other packing. Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Collect all waste in suitable and labelled containers and dispose according to local legislation. Avoid release to the environment.
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

Not regulated for transport

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

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

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14.5. Environmental hazards

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

14.6. Special precautions for user

14.6.1. Overland transport

14.6.2. Transport by sea

14.6.3. Air transport

14.6.4. Inland waterway transport

Not subject to ADN : No

14.6.5. Rail transport

Carriage prohibited (RID) : No

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 substances with Annex XVII restrictions

DEGRAZYM is not on the REACH Candidate List

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Detergent Regulation : Labelling of contents:

Component	%
anionic surfactants	5-15%
non-ionic surfactants	<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

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

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H226	Flammable liquid and vapour
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
R10	Flammable
R38	Irritating to skin
R41	Risk of serious damage to eyes
R50	Very toxic to aquatic organisms
R67	Vapours may cause drowsiness and dizziness
N	Dangerous for the environment

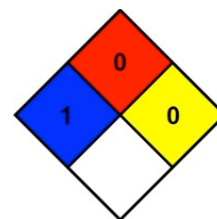
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Xi	Irritant
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- NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
- NFPA fire hazard : 0 - Materials that will not burn.
- NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



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