

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

1.1. Product identifier

Product code : Hygienfresh Detergente Delicati & Lana
Trades code : A39-510
Product line: Hygienfresh

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

Detergent for wool and delicates
Industrial Manufacturing[SU3], Private households (= general public = consumers)[SU21], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Uses advised against
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

Tintolav s.r.l. - Via M. D'Antona 7 - 10028 Trofarello (TO) Tel. 011/649.68.27 Fax 011/649.67.42

Email: info@tintolav.com - Sito internet: www.tintolav.com

Email tecnico competente: a.conedera@tintolav.com

National contact: Malta: Emergency Ambulance 112
Accident & Emergency Department 2545 4030

1.4. Emergency telephone number

The UK National Poisons Emergency number +44 (0)870 600 6266
London: Emergency 24 hour telephone +44 (0) 207188 0100

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:
GHS07

Hazard Class and Category Code(s):
Skin Irrit. 2, Eye Irrit. 2

Hazard statement Code(s):
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.

2.1.2 Classification according to Directive 1999/45/EEC:

Classification:
Xi; R41

Nature of special risks attributed:
R41 - Risk of serious damage to eyes.

If brought into contact with eyes, the product causes significant irritations which may last for more than 24 hours, if brought into contact with skin, it causes significant inflammation with erythema, scabs, or edema

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

GHS07 - Warning



Hazard statement Code(s):

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

Precautionary statements:

General

P102 - Keep out of reach of children.

Prevention

P264 - Wash your hand thoroughly after handling.

Response

P302+P352 - IF ON SKIN: Wash with plenty of water and soap

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

Contains (Reg. EC 648/2004):

5% < 15% anionic surfactants, < 5% perfumes, Miscela di: 5-cloro-2-metil-2H-isotiazol-3-one [EC no. 247-500-7]; 2-metil-2H-isotiazol-3-one [EC no. Dye, non-ionic surfactants, Benzyl salicylate, Amyl cinnamal, Butylphenyl methylpropional

Content of VOC ready to use condition: 0 %

2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrelevant

3.2 Mixtures

Refer to paragraph 16 for full text of risk phrases and hazard statements

| Substance | Concentration | Classification | Index | CAS | EINECS | REACH |
|--|---------------|--|-------|------------|-----------|-------------------------------|
| Dodecylbenzenesulphonic acid, compound with 2,2',2''nitrilotriethanol (1:1). | > 5 <= 10% | Xi; R36/38 Xi; R41 Skin Irrit. 2, H315; Eye Irrit. 2, H319 | | 27323-41-7 | 248-406-9 | |
| Fatty alcohol ethoxylate | > 1 <= 5% | Xn; R22 Xi; R41 Acute Tox. 4, H302; Eye Dam. 1, H318 | | 64425-86-1 | | 02-2119548 515-35-000 0 |
| Sodium dodecylbenzenesulfonate | > 1 <= 5% | Xn; R22 Xi; R36/37/38 Xi; R41 Acute Tox. 4, H302; Acute Tox. 4, H312; | | 25155-30-0 | 246-680-4 | |

| Substance | Concentration | Classification | Index | CAS | EINECS | REACH |
|-----------------------------|---------------|--|--------------|------------|-----------|----------------------|
| | | Skin Irrit. 2, H315; Eye Irrit. 2, H319 | | | | |
| Coconut diethanolamide | > 1 <= 5% | Xi; R38 Xi; R41 Skin Irrit. 2, H315; Eye Irrit. 2, H319 | | 68603-42-9 | 271-657-0 | |
| Sodium Lauryl Ether sulfate | > 0,1 <= 1% | Xi; R38 Xi; R41 Skin Irrit. 2, H315; Eye Irrit. 2, H319 | | 68891-38-3 | 500-234-8 | 01-2119488 639-16 |
| Lanolin, ethoxylated | > 0,1 <= 1% | Skin Irrit. 2, H315; Aquatic Chronic 4, H413 | | 61790-81-6 | | |
| Cocoamidopropyl Betaine | > 0,1 <= 1% | Xi; R36/38 N; R50 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Acute 1, H400 | | 61789-40-0 | 263-058-8 | |
| diethanolamine | <= 0,1% | Xn; R22 R48/22 Xi; R38 Xi; R41 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT RE 2, H373 | 603-071-00-1 | 111-42-2 | 203-868-0 | |
| Steareth-21 | <= 0,1% | Xi; R41 Skin Irrit. 2, H315; Eye Dam. 1, H318 | | 9005-00-9 | 500-017-8 | |

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Take contaminated clothing Immediately off.

Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.

In case of contact with skin, wash immediately with water and soap

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Ingestion:

Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

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

No data available.

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

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If medical advice is needed, have product container or label at hand.

SECTION 5. Firefighting measures**5.1. Extinguishing media**

Advised extinguishing agents:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

SECTION 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Wear mask, gloves and protective clothing. Suitable: LaTeX, nitrile, PVC

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.

Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors

At work do not eat or drink.

See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Store in a cool place, away from sources of heat and direct exposure of sunlight.

7.3. Specific end use(s)

Industrial Manufacturing:

Handle with extreme caution.

Store in a well ventilated place away from heat sources.

Private households (= general public = consumers):

Handle with care.

Store in ventilated place away from heat sources,

Keep the container tightly closed.

Public domain (administration, education, entertainment, services, craftsmen):

Handle with care. Store in a ventilated area and away from heat, keep the container tightly closed.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Related to contained substances:

diethanolamine

TLV: 2 mg/m (cute) (ACGIH 2002).

Mak: cancerogenicit class: Class 3A; Sh, H (2002)

8.2. Exposure controls

Appropriate engineering controls:

Industrial Manufacturing:

No specific monitoring foreseen

Private households (= general public = consumers):

No specific checks planned

Public domain (administration, education, entertainment, services, craftsmen):

No specific monitoring foreseen

Individual protection measures:

(a) Eye / face protection



Not needed for normal use.

(b) Skin protection

(i) Hand protection

Manipulate with gloves. The gloves should be checked before being used. Use a technique suitable for the removal of gloves (without touching the outside of the glove) to avoid skin contact with this product dispose of contaminated gloves after use in accordance with the legislation and good laboratory practices. Wash and dry your hands. Selected protective gloves shall comply with the requirements of EU Directive 89/686/EEC and EN 374 standards arising therefrom.

Full contact

Material: nitrile rubber

minimum thickness: 0.11 mm

permeation time: 480 min

(ii) Other

Wear normal work clothing.

(c) Respiratory protection

Not needed for normal use.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Related to contained substances:

diethanolamine

Do not let this chemical contaminates the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical and chemical properties | Value | Determination method |
|--|--------------------|----------------------|
| Appearance | pink liquid | |
| Odour | characteristic | |
| Odour threshold | not determined | |
| pH | 6 - 7 al 1% | |
| Melting point/freezing point | 0 °C | |
| Initial boiling point and boiling range | 100 °C | |
| Flash point | not determined | ASTM D92 |
| Evaporation rate | irrelevant | |
| Flammability (solid, gas) | not determined | |
| Upper/lower flammability or explosive limits | not determined | |
| Vapour pressure | not determined | |
| Vapour density | not determined | |
| Relative density | 1,00 - 1,05 g/cm3 | |
| Solubility | completely soluble | |
| Water solubility | completely soluble | |
| Partition coefficient: n-octanol/water | not determined | |

| Physical and chemical properties | Value | Determination method |
|----------------------------------|----------------|----------------------|
| Auto-ignition temperature | not determined | |
| Decomposition temperature | not determined | |
| Viscosity | not determined | |
| Explosive properties | not explosive | |
| Oxidising properties | non-oxidizing | |

9.2. Other information

Content of VOC ready to use condition: 0 %

SECTION 10. Stability and reactivity**10.1. Reactivity**

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

It can generate inflammable gases to contact with elementary metals, nitrides, inorganic sulfide, strong reducing agents.

It can generate toxic gases to contact with inorganic sulfide, strong reducing agents.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information**11.1. Information on toxicological effects**

ATE(mix) oral = 24.176,3 mg/kg

ATE(mix) dermal = 114.285,7 mg/kg

ATE(mix) inhal = 0,0 mg/l/4 h

(a) acute toxicity: not applicable

(b) skin corrosion/irritation If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.

Dodecylbenzenesulphonic acid, compound with 2,2',2''nitrilotriethanol (1:1): Irritating

Sodium dodecylbenzenesulfonate: Skin irritation-not irritating (2.5%), moderate irritation (5%), moderate-severe irritation (47-50%).

Coconut diethanolamide: Irritating

Sodium Lauryl Ether sulfate: Acute effects: contact with eyes will cause irritation; symptoms may include: redness, edema, pain and tears.

Through contact with the skin has irritation with erythema, edema, dryness and cracking.

Lanolin, ethoxylated: Species: Rabbit no irritation method. Draize Test

Remarks. The swab tests conducted on volunteers proved irritating properties

diethanolamine: irritating

(c) serious eye damage/irritation: If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

Dodecylbenzenesulphonic acid, compound with 2,2',2''nitrilotriethanol (1:1): Irritating

Sodium dodecylbenzenesulfonate: Eye irritation-mild irritation (1%); moderate irritation (5%), and severe irritation (47-50%)

Coconut diethanolamide: Acute Irritazione\Corrosione eyes

Lanolin, ethoxylated: Species: Rabbit irritation method. Draize Test

diethanolamine: Severely irritating

(d) respiratory or skin sensitization: Coconut diethanolamide: Non-sensitizing

(e) germ cell mutagenicity: not applicable

(f) carcinogenicity: Sodium dodecylbenzenesulfonate: IARC: no component of this product present at levels greater than or equal to 0.1% identified as known or anticipated carcinogen by IARC.

Coconut diethanolamide: IARC Group 2B carcinogen-possible carcinogenic to humans

diethanolamine: IARC: Group 3-3: not classifiable regarding its carcinogenicity for man

(g) reproductive toxicity: not applicable

(h) specific target organ toxicity (STOT) single exposure: not applicable

(i) specific target organ toxicity (STOT) repeated exposure: Dodecylbenzenesulphonic acid, compound with 2,2',2''nitrilotriethanol (1:1): Rabbit 90-day dermal NOAEL > 5 mg/kg bw (only dose tested)

(j) aspiration hazard: not applicable

Related to contained substances:

Dodecylbenzenesulphonic acid, compound with 2,2',2''nitrilotriethanol (1:1):

LD50 (rat) Oral (mg/kg body weight) = 1653

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 4199

Fatty alcohol ethoxylate:

LD50 (rat) Oral (mg/kg body weight) = 3100

Sodium dodecylbenzenesulfonate:

LD50 (rat) Oral (mg/kg body weight) = 438

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

Coconut diethanolamide

Ingestion: oral rat LD50: > 2,000 mg/kg

Eye contact: irritating to the eye (rabbit). Can cause irreversible damage to the eye.

Skin contact: moderately irritating for a single application (4 h-rabbit)

Readily biodegradable in accordance with the criteria of Directive 67/548 and subsequent modifications.

LD50 (rat) Oral (mg/kg body weight) = 5000

Sodium Lauryl Ether sulfate

LD50 (alcohols, C12-14, ethoxylated, sulfated, sodium salts; CAS No.: 68891-38-3)

Via Inhalation Administration:

Test species: rat

Value: 4100 mg/kg

Specification: LD50 (alcohols, C12-14, ethoxylated, sulfated, sodium salts; CAS No.: 68891-38-3)

Via Dermal intake:

Test species: rat

Value: > 2000 mg/kg

LD50 (rat) Oral (mg/kg body weight) = 2000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000
CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 4100

Lanolin, ethoxylated

Prepared non-hazardous within the meaning of the EEC direttiva 1999/45 and 67/548

LD50 (rat) Oral (mg/kg body weight) = 21300

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 10000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 200

Cocoamidopropyl Betaine

LD50/oral toxicity: rat: > 4900 mg/kg

Primary skin irritation: not irritating. Primary mucosal irritation: rabbit: irritant Eye

Additional indications:

-Sensitization: no sensitizing

-Mutagenicity: non-mutagenic (Ames Assay)

-No known evidence of carcinogenicity and teratogenicity effects

LD50 (rat) Oral (mg/kg body weight) = 4900

diethanolamine

ROUTES of EXPOSURE: the substance can be absorbed into the body by inhalation of its fumes and ingestion.

INHALATION RISK: A dangerous air contamination will not be reached or the sar only very slowly by evaporation of the substance at 20 C.

Effects of short-term exposure: the substance is corrosive to the eyes.

Effects of REPEATED EXPOSURE or long-term repeated or prolonged Contact may cause skin sensitization. The substance may have effects on the liver kidneys ACUTE HAZARDS/symptoms EYES Reddening. Pain. Severe deep burns.

INGESTION abdominal pain. Burning sensation.

N O T and not bring home work clothes.

LD50 (rat) Oral (mg/kg body weight) = 710

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 1220

Steareth-21:

LD50 (rat) Oral (mg/kg body weight) = 15000

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:

Dodecylbenzenesulphonic acid, compound with 2,2',2''nitrilotriethanol (1:1).

C(E)L50 (mg/l) = 2,6

Fatty alcohol ethoxylate

Ittiotossicit:

LC50 (96 h) 1-10 mg/l, Brachydanio rerio

Aquatic invertebrates:

EC50 (48 h) 1-10 mg/l Daphnia magna

Aquatic plants:

EC50 (72 h) 1-10 mg/l Scenedesmus subspicatus

Microorganisms/effects on activated sludge:

CE10 > 1,000 mg/l, activated sludge (DEV-L2)

Chronic toxic to aquatic invertebrates:

NOEC (21 d), 0.33 mg/l Daphnia magna

C(E)L50 (mg/l) = 1

Sodium dodecylbenzenesulfonate

C(E)L50 (mg/l) = 1,67

Coconut diethanolamide

Acute/prolonged toxicity to fish: (83d) 2.52 mg/l (brachydanio rerio)

Acute toxicity to Aquatic Invertebrates: EC50 (12:0 am) 2.8 mg/l (daphnia Magna)

Primary: Biodegradabilit > 90% (OECD)

Easy Biodegradabilit: 60% > (manometric Tests, O2 consumption)

Theoretical O2 demand (thod) 2.52 mg O2/mg.

Chemical O2 demand (COD): 2.51 mg O2/mg.

C(E)L50 (mg/l) = 2,39

Sodium Lauryl Ether sulfate

LC50 (alcohols, C12-14, ethoxylated, sulfated, sodium salts; CAS No.: 68891-38-3)

Parametro: Fish

Danio Rerio

Value = 7.1 mg/l

For. test: 96 h

Specification: EC50 (alcohols, C12-14, ethoxylated, sulfated, sodium salts; CAS No.: 68891-38-3)

Parametro: Daphnia

Daphnia magna

Value = 7.2 mg/l

For. test: 48 h

Specification: EC50 (alcohols, C12-14, ethoxylated, sulfated, sodium salts; CAS No.: 68891-38-3)

Parametro: Algae

Scenedesmus subspicatus

Value = 27 mg/l

C(E)L50 (mg/l) = 7,1

Cocoamidopropyl Betaine

In accordance with the criteria set forth in regulation biodegradabilit detergents n. 648/2004.

Ecotoxicit:

Persistence and degradabilit: Biodegradabilit: 90% > (OECD 302B)

LC10 (Gold Orfen DIN 38412): 2.5 mg/l

LC100 (Gold Orfen DIN 38412): 5.0 mg/l

C(E)L50 (mg/l) = 0,55

diethanolamine

The substance is harmful to aquatic organisms.

Aquatic toxic

Specification: EC50 (2.2-IMINODIETANOLO; CAS No.: 111-42-2)

Parametro: Daphnia

Daphnia magna

Value = 55 mg/l

For. test: 48 h

Specification: EC50 (2.2-IMINODIETANOLO; CAS No.: 111-42-2)

Parametro: Algae

Pseudokirchneriella subcapitata

Value = 2.2 mg/l

For. test: 96 h

Specification: LC50 (2.2-IMINODIETANOLO; CAS No.: 111-42-2)

Parametro: Fish

Pimephales promelas

Value = 1460 mg/l

For. test: 96 h

C(E)L50 (mg/l) = 2,2

Steareth-21

LC50/83d > Oncorhynchus mykiss-5.6 mg/l

C(E)L50 (mg/l) = 5,6

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

Related to contained substances:

Fatty alcohol ethoxylate

Disposal considerations:

> = 90% the bismuth active substance (OECD guideline 303A)

60% > CO₂ formation of theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, c. 4-C)

Readily biodegradable (according to OECD criteria).

Sodium Lauryl Ether sulfate

Easily biodegradable

Lanolin, ethoxylated

57.1%

method: OECD TG 301 and

Remark: Inherently Biodegradable

Cocoamidopropyl Betaine

100%

after 28 days

12.3. Bioaccumulative potential

Related to contained substances:

Sodium dodecylbenzenesulfonate

Bioaccumulation-28 leptomismacrochirus d -64 g/l

Bioconcentration factor (BCF): 220

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Operate according to local or national regulations

SECTION 14. Transport information

14.1. UN number

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

SECTION 15. Regulatory information

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

No data available.

15.2. Chemical safety assessment

The supplier has made an assessment of chemical safety

SECTION 16. Other information

16.1. Other information

Description of the sentences of risk set out in paragraph 3

R22 = Harmful if swallowed.

R36 = Irritating to eyes.

R37 = Irritating to respiratory system.

R38 = Irritating to skin.

R41 = Risk of serious damage to eyes.

R48 = Danger of serious damage to health by prolonged exposure.

R50 = Very toxic to aquatic organisms.

Description of the hazard statements exposed to point 3

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H302 = Harmful if swallowed.

H318 = Causes serious eye damage.

H312 = Harmful in contact with skin.

H413 = May cause long lasting harmful effects to aquatic life.

H400 = Very toxic to aquatic life.

H373 = May cause damage to organs through prolonged or repeated exposure .

Classification based on data of all mixture components

Main normative references:

Directive 1999/45/EC

Directive 2001/60/EC

Regulation 1272/2008/EC

Regulation 2010/453/EC

** The information contained herein is based on our knowledge at the date above.

Related solely to the product and do not constitute a guarantee of a particular quality.

It is the duty of the user to ensure that these are appropriate and complete information regarding the specific use intended.

This data sheet cancels and replaces any previous edition.
