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

1.1. Product identifier

Product code : Hygienfresh Detergente Oil Remover
Trades code : A39-535
Product line: Hygienfresh

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

Deo concentrated detergent
Sectors of use:
Industrial Manufacturing[SU3], 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:
GHS05, GHS07

Hazard Class and Category Code(s):
Skin Irrit. 2, Skin Sens. 1, Eye Dam. 1

Hazard statement Code(s):
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.

If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.
The product, if brought into contact with skin can cause skin sensitization.
If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

2.2. Label elements

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

Pictogram, Signal Word Code(s):
GHS05, GHS07 - Danger

Hazard statement Code(s):
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.

Supplemental Hazard statement Code(s):
not applicable

Precautionary statements:
Prevention
P264 - Wash your hand thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
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.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

Contains:
Potassium dodecylbenzenesulfonate, Fatty alcohol ethoxylate, tetrasodium ethylenediaminetetraacetate, Coconut diethanolamide , diethanolamine, Steareth-21, 2,4-dimethylcyclohex-3-ene-1-carbaldehyde, Orange dye
0,01% of the mixture consists of components whose toxicity is unknown.

Contains (Reg.EC 648/2004):
5% < 15% non-ionic surfactants, anionic surfactants,< 5% perfumes, Dye, EDTA and salts thereof

Content of VOC ready to use condition: 0,06 %

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

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Index	CAS	EINECS	REACh
Potassium dodecylbenzenesulfonate	> 5 <= 10%	Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Dam. 1, H318		27177-77-1	248-296-2	
Fatty alcohol ethoxylate	> 5 <= 10%	Acute Tox. 4, H302; Eye Dam. 1, H318		64425-86-1		02-2119548515-35-0000
2-(2-butoxyethoxy)ethanol	> 1 <= 5%	Eye Irrit. 2, H319	603-096-00-8	112-34-5	203-961-6	

Substance	Concentration	Classification	Index	CAS	EINECS	REACh
Coconut diethanolamide	> 1 <= 5%	Skin Irrit. 2, H315; Eye Irrit. 2, H319		68603-42-9	271-657-0	
tetrasodium ethylenediaminetetraacetate	> 0,1 <= 1%	Acute Tox. 4, H302; Eye Dam. 1, H318	607-428-00-2	64-02-8	200-573-9	
diethanolamine	> 0,1 <= 1%	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%	Skin Irrit. 2, H315; Eye Dam. 1, H318		9005-00-9	500-017-8	
Orange dye	<= 0,1%	Eye Dam. 1, H318; Aquatic Chronic 3, H412		55809-98-8	259-830-9	

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
Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

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 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
Wear protective gloves/protective clothing/eye protection/face protection.
At work do not eat or drink.
Contaminated work clothing should not be allowed out of the workplace.

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.

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:
2-(2-butoxyethoxy)ethanol:
CVE: TWA 10 ppm 67.5 mg/m3 STEL 15 ppm 101.2 mg/m3
MAK DFG 10 ppm 67 mg/m3

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

Public domain (administration, education, entertainment, services, craftsmen):
No specific monitoring foreseen

Individual protection measures:

(a) Eye / face protection
When handling the pure product use safety glasses (spectacles cage) (EN 166).

(b) Skin protection

(i) Hand protection
When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other
When handling the pure product wear full protective skin 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	straw yellow liquid	
Odour	characteristic	
Odour threshold	not determined	
pH	7,5 - 8,5 @ 1%	
Melting point/freezing point	not determined	
Initial boiling point and boiling range	> 100 °C	
Flash point	not determined	ASTM D92
Evaporation rate	irrelevant	
Flammability (solid, gas)	irrelevant	
Upper/lower flammability or explosive limits	not determined	
Vapour pressure	irrelevant	
Vapour density	not determined	
Relative density	1,010 - 10,020 g/cm3	
Solubility	soluble in water	
Water solubility	completely soluble	
Partition coefficient: n-octanol/water	not determined	
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: 0,06 %

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 solfide, 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 = 6.218,3 mg/kg
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞

(a) acute toxicity: based on available data, the classification criteria are not met.
(b) skin corrosion/irritationIf brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.
Coconut diethanolamide: Irritating
diethanolamine: irritating
(c) serious eye damage/irritation: If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.
2-(2-butoxyethoxy)ethanol: Eyes-rabbit Result: Mild eye irritation-24h
Coconut diethanolamide: Acute Irritazione\Corrosione eyes
diethanolamine: Severely irritating
(d) respiratory or skin sensitization: The product, if brought into contact with skin can cause skin sensitization.
Coconut diethanolamide: Non-sensitizing
(e) germ cell mutagenicity: 2-(2-butoxyethoxy)ethanol: Mutagenicity-Bacterial,: negative +/-activation

Chromosomal aberration,: negative +/-activation

Mutagenicity-Mammalian,: negative +/-activation
(f) carcinogenicity: Coconut diethanolamide: IARC Group 2B carcinogen-possible carcinogenic to humans
diethanolamine: IARC: Group 3-3: not classifiable regarding its carcinogenicit for man
(g) reproductive toxicity: based on available data, the classification criteria are not met.
(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
(i) specific target organ toxicity (STOT) repeated exposurebased on available data, the classification criteria are not met.
(j) aspiration hazard: based on available data, the classification criteria are not met.

Related to contained substances:
Potassium dodecylbenzenesulfonate:
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

Fatty alcohol ethoxylate:
LD50 (rat) Oral (mg/kg body weight) = 3100

2-(2-butoxyethoxy)ethanol:
INHALATION RISK: A harmful contamination of air sar reached slowly for evaporation of this substance at 20 C; However, for spraying or scattering, much more quickly.
Effects of short-term exposure: the substance is irritating to eyes the effects of REPEATED EXPOSURE or long term: the liquid degreasing the skin features.

ACUTE HAZARDS/symptoms dry SKIN.
EYE Redness. Pain.
LD50 (rat) Oral (mg/kg body weight) = 1720
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2700
CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 374

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

tetrasodium ethylenediaminetetraacetate:
Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animals: Acute oral toxicity (LD50): >2000 mg/kg [Rat].
Chronic Effects on Humans: May cause damage to the following organs: upper respiratory tract, skin, eyes.
Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals: Not available.
Special Remarks on Chronic Effects on Humans: Not available.
Special Remarks on other Toxic Effects on Humans: Acute Potential Health effects: Skin: May cause skin irritation.
Eyes:
May cause eye irritation. Inhalation: May cause irritation of the respiratory tract. Ingestion: May cause gastrointestinal tract
irritation. The toxicological properties of this substance have not been fully investigated.
LD50 (rat) Oral (mg/kg body weight) = 2000

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:
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

2-(2-butoxyethoxy)ethanol:
Toxic to fish Lc50-lepomismacrochirus-1,300 mg/l-96 h CL0-Leuciscus idus (dare or Golden)-> 1,000 mg/l-48 h Toxic to daphnia and other aquatic invertebrates: Ec50 Daphnia magna (water Flea grande)-2850 mg/l-48 h for Toxic Algae Desmodesmus subspicatus CI50-(green)-100 mg/l >-12:0 am Toxic to bacteria Lc50-Acinetobacter-1,170 mg/l-4:0 pm
C(E)L50 (mg/l) = 1300

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

tetrasodium ethylenediaminetetraacetate:
Ecotoxicity: Ecotoxicity in water (LC50): 760 mg/l 96 hours [Bull gill sunfish]. 59.8 mg/l 96 hours [Fathead Minnow].
BOD5 and COD: Not available.
Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation: Not available.
C(E)L50 (mg/l) = 500

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 > Oncohynchus 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).

2-(2-butoxyethoxy)ethanol:
The substance miscible in water and would leach into the groundwater, be lost in groundwater and be biologically degraded.
85% (28 d, Ready Biodegradability: Modified MITI Test (s)) readily biodegradable

tetrasodium ethylenediaminetetraacetate:
Partly biodegradable according to OECD test
-BOD5: 50 mg O2/g
-COD: 260 mg O2/g

12.3. Bioaccumulative potential

Related to contained substances:
2-(2-butoxyethoxy)ethanol:
The substance is not expected to bioaccumulate.

tetrasodium ethylenediaminetetraacetate:
None of the components bio-accumulative

12.4. Mobility in soil

Related to contained substances:
2-(2-butoxyethoxy)ethanol:
The high idrosolubilit and low octanol/water partition coefficient indicates that adsorption to suspended solids and sediments are not significant

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

Related to contained substances:
2-(2-butoxyethoxy)ethanol:
Restrictions relating to the product or to substances contained in annex XVII to Regulation (EC) 1907/2006.
3 product section.
Substances.
Point. 55 BUTYL DIGLYCOL

15.2. Chemical safety assessment

The supplier has made an assessment of chemical safety

SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 1.2. Relevant identified uses of the substance or mixture and uses advised against, 2.1. Classification of the substance or mixture, 2.2. Label elements, 2.3. Other hazards, 3.2 Mixtures, 4.1. Description of first aid measures, 4.3. Indication of any immediate medical attention and special treatment needed, 7.1. Precautions for safe handling, 8.1. Control parameters, 8.2. Exposure controls, 9.2. Other information, 11.1. Information on toxicological effects, 12.1. Toxicity, 12.2. Persistence and degradability, 12.3. Bioaccumulative potential, 12.4. Mobility in soil, 13.1. Waste treatment methods, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Description of the hazard statements exposed to point 3
H302 = Harmful if swallowed.
H315 = Causes skin irritation.
H317 = May cause an allergic skin reaction.
H318 = Causes serious eye damage.
H319 = Causes serious eye irritation.
H373 = May cause damage to organs through prolonged or repeated exposure .
H412 = Harmful to aquatic life with long lasting effects.

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.