

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

### **1.1. Product identifier**

Product code : Hygienfresh Wet& Fresh Hydrorepellent  
Trades code : A48-505  
Product line: Hygienfresh

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

Sectors of use:

Industrial Manufacturing[SU3], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Uses advised against

Private households (= general public = consumers)[SU21]

### **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.

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.

Supplemental Hazard statement Code(s):  
not applicable

Precautionary statements:

Prevention

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.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

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

Content of VOC ready to use condition: 0,00 %

### 2.3. Other hazards

It Contains :

dodecamethylcyclohexasiloxane - SVHC PBT

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
Poly[3-((2-aminoethyl)amino)propyl]methyl(dimethyl)siloxane, hydroxy-terminated	> 5 <= 10%	Skin Irrit. 2, H315; Eye Irrit. 2, H319		102782-92-3	600-354-1	
2-(2-butoxyethoxy)ethanol	> 1 <= 5%	Eye Irrit. 2, H319	603-096-00-8	112-34-5	203-961-6	
ethylene glycol monoethyl ether	> 1 < 3%	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Corr. 1B, H314	603-178-00-3	112-25-4	203-951-1	01-2119486 575-24
dodecamethylcyclohexasiloxane - SVHC PBT	> 0,1 <= 1%	Aquatic Chronic 4, H413		540-97-6	208-762-8	

## 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

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 eye irritation persists: Get medical advice/attention.

### **SECTION 5. Firefighting measures**

#### **5.1. Extinguishing media**

Advised extinguishing agents:

Water spray, CO<sub>2</sub>, 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 a mask, gloves and protective clothing. Suitable: LaTeX, nitrile, PVC

Delete all naked flames and potential sources of ignition. Do not smoke.

Provide adequate ventilation.

Evacuate danger area and, where appropriate, 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.

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/m<sup>3</sup> STEL 15 ppm 101.2 mg/m<sup>3</sup>

MAK DFG 10 ppm 67 mg/m<sup>3</sup>

---

**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

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

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:

Use according to good working practices to avoid pollution into 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	transparent liquid	
Odour	characteristic	
Odour threshold	not determined	
pH	5-6	
Melting point/freezing point	not determined	
Initial boiling point and boiling range	not determined	
Flash point	96 °C	ASTM D92

Physical and chemical properties	Value	Determination method
Evaporation rate	irrelevant	
Flammability (solid, gas)	nonflammable	
Upper/lower flammability or explosive limits	not determined	
Vapour pressure	23 hPa @ 25 °C	
Vapour density	not determined	
Relative density	0.99 -1.01 g/cm <sup>3</sup>	
Solubility	Completely soluble in water	
Water solubility	Completely soluble in water	
Partition coefficient: n-octanol/water	not determined	
Auto-ignition temperature	535 °C	
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: 0,00 %

## 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 = 49.200,0 mg/kg  
ATE(mix) dermal = 49.156,7 mg/kg  
ATE(mix) inhal = ∞

- (a) acute toxicity: based on available data, the classification criteria are not met.
- (b) skin corrosion/irritation: If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.
- (c) serious eye damage/irritation: If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.  
2-(2-butoxyethoxy)ethanol: Eyes-rabbit Result: Mild eye irritation-24h
- (d) respiratory or skin sensitization: based on available data, the classification criteria are not met.
- (e) germ cell mutagenicity: 2-(2-butoxyethoxy)ethanol: Mutagenicity-Bacterial,: negative +/-activation

Chromosomal aberration,: negative +/-activation

Mutagenicity-Mammalian,: negative +/-activation

- (f) carcinogenicity: based on available data, the classification criteria are not met.
- (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 exposure: ethylene glycol monohexyl ether: Repeated dose toxicity - rat - male and female - Dermal - No observed harmfulness - 222 mg / kg - Lower level of observed harmfulness - 44 mg / kg  
RTECS: KL2450000
- (j) aspiration hazard: based on available data, the classification criteria are not met.

Related to contained substances:

Poly[3-((2-aminoethyl)amino)propyl]methyl(dimethyl)siloxane, hydroxy-terminated:  
LD50 (rat) Oral (mg/kg body weight) = 2000  
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

2-(2-butoxyethoxy)ethanol:

INHALATION RISK: A harmful contamination of air can be 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

ethylene glycol monohexyl ether:

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its aerosol, through the skin and by ingestion.

INHALATION RISK: No indication can be given about the rate at which a harmful concentration in the air is reached on evaporation of this substance at 20 °C.

EFFECTS OF SHORT-TERM EXPOSURE: The substance is severely irritating to the eyes, the skin and the respiratory tract

EFFECTS OF REPEATED OR LONG-TERM EXPOSURE: The substance may have effects on the blood

ACUTE RISKS / SYMPTOMS

INHALATION Cough. Sore throat. Burning sensation. Shortness of breath.

ACUTE CAN BE ABSORBED! Redness. Ache.

EYES Redness. Ache.

INGESTION Abdominal pain. Nausea. He retched. Diarrhea.

LD50 Oral - rat - female - 738 mg / kg  
(OECD TG 401)  
LD50 Dermal - on rabbit - male - 757.35 mg / kg  
(OECD TG 402)  
Intravenous LD50 - on rabbit - female - 22.97 mg / kg  
LD50 (rat) Oral (mg/kg body weight) = 738  
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 737,35

dodecamethylcyclohexasiloxane:

Eye contact: May temporarily incommode.  
LD50 oral rat > 24134 mg / kg  
LD50 dermal rabbit > 16 ml / kg  
LC50 inhalation rat (lethal concentration)  
Toxicity information > 2700 mg / m<sup>3</sup> (lethal concentration: inhalation, rat)  
LD50 (rat) Oral (mg/kg body weight) = 24134  
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 16  
CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 2700

## SECTION 12. Ecological information

### 12.1. Toxicity

Related to contained substances:

Poly[3-((2-aminoethyl)amino)propyl]methyl(dimethyl)siloxane, hydroxy-terminated:  
EC50 (Water flea (Daphnia magna), 48 d): > 100 mg/l  
C(E)L50 (mg/l) = 100

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 Desmodemus 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

ethylene glycol monohexyl ether:

Toxicity to fish Static test CL50 - Pimephales promelas (American chub) - 140 mg / l - 96 h  
(OECD TG 203)  
Toxicity to daphnia and other aquatic invertebrates  
Static test CE50 - Daphnia magna (Large water flea) - 145 mg / l - 48 h  
Toxicity to algae static test EC50 - Desmodemus subspicatus (Scenedesmus subspicatus) - 198.31 mg / l - 72 h

C(E)L50 (mg/l) = 140

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

### 12.2. Persistence and degradability

Related to contained substances:

Poly[3-((2-aminoethyl)amino)propyl]methyl(dimethyl)siloxane, hydroxy-terminated:  
BOD/COD ratio: 84.5% (OECD 302B/ISO 9888)



**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

**ethylene glycol monohexyl ether:**

Aerobic biodegradability - Exposure time 28 d

Result: 96.8% - R

**dodecamethylcyclohexasiloxane:**

The volatile siloxanes with low molecular weight have a low water solubility and evaporate in the air. Volatile siloxanes with low molecular weight degrade in the air by reacting with hydroxyl radicals, which are the major degradation process for most chemicals in the atmosphere. The volatile siloxanes with low molecular weight present in the soil, are eliminated through several simultaneous processes such as volatilization, hydrolysis and degradation catalyzed with clay.

### **12.3. Bioaccumulative potential**

Related to contained substances:

**2-(2-butoxyethoxy)ethanol:**

The substance is not expected to bioaccumulate.

**dodecamethylcyclohexasiloxane:**

The volatile low molecular weight siloxanes bioconcentrated in fish exposed to laboratory control conditions that are not representative of the conditions found in the environment.

### **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**

It Contains :

dodecamethylcyclohexasiloxane - SVHC PBT

### **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

dodecametilcicloesasilossano D6

\*\*\*\* Not translated \*\*\*\*

REGULATION (EU) No 1357/2014 - waste:

HP4 - Irritant — skin irritation and eye damage

**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 hazard statements exposed to point 3

- H315 = Causes skin irritation.
- H319 = Causes serious eye irritation.
- H302 = Harmful if swallowed.
- H312 = Harmful in contact with skin.
- H314 = Causes severe skin burns and eye damage.
- H413 = May cause long lasting harmful effects to aquatic life.

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.

---