

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

1.1 Product identifier

Trade name: Fresh Lemon 2000

Index number: Not specified, mixture

Registration number: Not specified, mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against Cleaning agent/ Cleaner

Uses advised against None known

1.3. Details of the supplier of the safety data sheet

TECHNIQUA HANDELS GmbH

Hartleitnerstraße 3

A-4653 Eberstalzell

Tel: +43 (0) 7241 213 79

E-Mail: office@techniqua.at

1.4 Emergency telephone number

Poisoning Information Centre (VIZ), Stubenring 6, A-1010 Vienna, Emergency call

0-24 hrs: +43 1 406 43 43, Office hours: Monday to Friday, 8 to 16 hrs, Tel.: +43 1 406 68 98

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05 GHS07

Signal word Danger

Hazard-determining components of labelling:

Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides

Amides, C8-18 (even-numbered) and C18-unsatd, N,N-bis(hydroxyethyl)

d-Limonene

Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing mist, vapours or spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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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 or doctor.

P501 Dispose of contents or container in accordance with local, regional, national or international regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** No PBT.

· **vPvB:** No vPvB.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 85409-22-9 EINECS: 287-089-1	Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides ----- Skin Corr. 1B, H314; Aquatic Acute 1, H400; Acute Tox. 4, H302	10%
EC number: 931-329-6 Reg.nr.: 01-2119490100-53-0027	Amides, C8-18 (even-numbered) and C18-unsatd, N,N-bis(hydroxyethyl) ----- Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315	<2%
CAS: 5989-27-5 EINECS: 227-813-5 Index number: 601-029-00-7 RTECS: GW 6360000 Reg.nr.: 01-2119529223-47-	d-Limonene ----- Flam. Liq. 3, H226; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥0.1-<0.25%
CAS: 68411-30-3 EINECS: 270-115-0 Reg.nr.: 01-2119489428-22-	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts ----- Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	<1.5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1. Description of first aid measures**

Immediately remove any clothing soiled by the product.

When symptoms occur or in case of doubt, seek medical advice.

Resuscitation should be provided in life-threatening conditions as follows:

If not breathing – artificial respiration must be initiated immediately, using mouth-to-mouth resuscitation;

Cardiac arrest – indirect heart massage must be initiated immediately;

Unconsciousness – the victim must be placed in a stabilized position.

If vomiting occurs, keep the victim's head below the hips to avoid the aspiration of vomit into the lungs.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water.

Seek medical treatment.

· **After swallowing:**

Do not induce vomiting.

Seek medical treatment.

Provided the patient is conscious:

Wash mouth out with water.

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- Give affected person drink plenty of water in small sips (dilution effect).*
- **4.2 Most important symptoms and effects, both acute and delayed**
Burns.
Irritant to skin.
Causes serious eye irritation.
May cause sensitization by skin contact.
- **Information for doctor:** None
- **4.3 Indication of any immediate medical attention and special treatment needed** Symptomatic treatment

SECTION 5: Firefighting measures

- **5.1. Extinguishing media**
Incombustible
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Not known
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon oxides (CO, CO₂)
Nitrogen oxides (NO_x)
Sulphur oxides (SO₂, SO₃).
- **5.3. Advice for firefighters**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Tray remove material from fire area if this can be done without risk.
Suppress (knock down) gasses / vapors / mists with a water spray jet.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Do not breathe vapours, aerosols.
Ensure adequate ventilation
- **6.2 Environmental precautions**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Pick up mechanically.
Collect in properly labeled containers.
In a closed container transfer to the designated location for disposal.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**
The product is not flammable.

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Store-houses must meet the fire safety requests for buildings. The technical equipment must comply with regulations.

- **7.2. Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1. Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **DNELs** No data available.
- **PNECs** No data available.
- **Additional information:** The SDS is legally based on documents effective at the release thereof.

· 8.2 Exposure controls

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Store protective clothing separately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Do not eat, drink, smoke or sniff while working.

Set up eyewash and safety showers are close to the workstation.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

· **Limitation and supervision of exposure into the environment**

Follow conditions of handling and storage.

Areas provide against leakage into waterways, soil and drainage.

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SECTION 9: Physical and chemical properties

· 9.1. Information on basic physical and chemical properties

· Appearance:

Form:	Fluid
Colour:	Yellow
· Odour:	Pleasant
· Odour threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	100 °C

· Flash point: Not applicable.

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

· Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapour pressure at 20 °C: 23 hPa

· Density: Not determined.

· Relative gas density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with water:

Fully miscible.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

Dynamic: Not determined.

Oxidising properties: No data available.

· Solvent content:

Organic solvents: 1.0 %

Water: 88 %

VOC (EC) 1,00 %

Solids content: 11 %

· 9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity Under normal conditions stable.

· 10.2. Chemical stability No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions No dangerous reactions known.

· 10.4 Conditions to avoid

Strong heating.

Strong solar radiation for a long time.

· 10.5 Incompatible materials

strong oxidizers.

strong acids.

strong bases

· 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

In case of fire:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

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Sulphur oxides (SOx)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **a) Acute toxicity**

Amides, C8-18 (even-numbered) and C18-unsatd, N,N-bis(hydroxyethyl)

Oral	LDLo	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

5989-27-5 d-Limonene

Oral	LD50	4400 mg/kg (rat)
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85409-22-9 Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides

Oral	LD50	344 mg/kg (rat)
Dermal	LD50	3340 mg/kg (rabbit)

111-42-2 Diethanolamine

Oral	LD50	1600 mg/kg (rat)
Dermal	LD50	>8200 mg/kg (rabbit)
Inhalative	LC50/4 h	3.34 mg/l (rat)

68411-30-3 Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Oral	LD50	1080 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

67-63-0 Propan-2-ol

Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

6381-92-6 Ethylenediaminetetraacetic acid disodium salt dihydrate

Oral	LD50	2800 mg/kg (rat)
Inhalative	LC50/4 h	1000-5000 mg/m ³ (rat) (OECD 403)

77-92-9 Citric acid

Oral	LD50	5040 mg/kg (mouse)
Dermal	LD50	>2000 mg/kg (rabbit)

- **b) Skin corrosion/irritation**

Causes severe skin burns and eye damage.

- **c) Serious eye damage/irritation**

Causes serious eye damage.

- **d) Respiratory or skin sensitization**

May cause an allergic skin reaction.

- **e) Germ cell mutagenicity** Based on available data, the classification criteria are not met.

- **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) STOT-single exposure** Based on available data, the classification criteria are not met.

- **i) STOT-repeated exposure** Based on available data, the classification criteria are not met.

- **j) Aspiration hazard** Based on available data, the classification criteria are not met.

- **11.2. Potential acute health effects**

After swallowing:

Gastric and intestinal problems.

- **After eye contact:** Highly corrosive effects.

- **After skin contact:**

Highly corrosive effects.

May cause an allergic skin reaction.

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· **After inhalation:** May cause respiratory irritation.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

Amides, C8-18 (even-numbered) and C18-unsatd, N,N-bis(hydroxyethyl)

EC50/48 h	3.2 mg/l (daphnia) (<i>Daphnia magna</i>)
LC50/96 h	4.9 mg/l (fish) (<i>Brachydanio rerio</i>)
	2.4 mg/l (fish) (<i>Oncorhynchus mykiss</i>)
EC50/72 h	3.9 mg/l (algae) (<i>Scenedesmus subspicatus</i>)
	6 mg/l (bacteria) (<i>Pseudomonas putida</i>)
NOEC/28 d	0.32 mg/l (fish) (<i>Oncorhynchus mykiss</i>)
NOEC/21 d	0.07 mg/l (daphnia) (<i>Daphnia magna</i>)
NOEC	0.3 mg/l (algae) (72 h, <i>Scenedesmus subspicatus</i>)
LOEC	1 mg/l (fish) (28 d, <i>Oncorhynchus mykiss</i>)

85409-22-9 Quaternary ammonium compounds, benzyl-C12-14-alkyldimethyl, chlorides

EC50/48 h	0.016 mg/l (daphnia) (<i>Daphnia magna</i>)
LC50/96 h	0.28 mg/l (fish) (<i>Pimephales promelas</i>)
EC50/72 h	0.049 mg/l (algae) (<i>Pseudokirchneriella subcapitata</i>)
EC50/3 h	7.75 mg/l (bacteria) (aktivovaný kal)
NOEC/35 d	0.032 mg/l (fish) (<i>Pimephales promelas</i>)
NOEC/21 d	0.0042 mg/l (daphnia) (<i>Daphnia magna</i>)

111-42-2 Diethanolamine

EC50/48 h	55 mg/l (daphnia) (<i>Daphnia magna</i>)
LC50/96 h	1460 mg/l (fish) (<i>Pimephales promelas</i>)
EC50/96 h	2.2 mg/l (algae) (<i>Pseudokirchneriella subcapitata</i>)
NOEC/21 d	0.78 mg/l (daphnia) (<i>Daphnia magna</i>)
LOEC	1.56 mg/l (daphnia) (21 d, <i>Daphnia magna</i>)

68411-30-3 Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

EC50/48 h	2.9 mg/l (daphnia) (<i>Daphnia magna</i>)
NOEC	0.23 mg/l (fish) (72 d, <i>Oncorhynchus mykiss</i>)
	0.63 mg/l (fish) (196 d, <i>Pimephales promelas</i>)
LOEC	1.2 mg/l (fish) (196 d, <i>Pimephales promelas</i>)

67-63-0 Propan-2-ol

EC50/48 h	>100 mg/l (daphnia) (<i>Daphnia magna</i>)
LC50/48 h	>100 mg/l (fish) (<i>Leuciscus idus melanotus</i>)
EC50/72 h	>100 mg/l (algae) (<i>Scenedesmus subspicatus</i>)

· **12.2 Persistence and degradability** A part of the components is biodegradable.· **12.3 Bioaccumulative potential** No information available.· **12.4 Mobility in soil** No further relevant information available.

· General notes:

Harmful to fish.

Harmful to aquatic organisms

· **12.5 Results of PBT and vPvB assessment** Does not meet the criteria for inclusion.· **PBT:** Not applicable.· **vPvB:** Not applicable.

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· **12.6 12.6. Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1. Waste treatment methods**

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

Dilute aqueous solutions can be discharged into sewage treatment plants equipped for capture of nitrogen compounds.

Prevent waste formation or provide waste reduction to minimum if possible.

Disposal operations within accordance with local and national regulations.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN1760

· **14.2 UN proper shipping name**

· **ADR**

Void

· **IMDG, IATA**

CORROSIVE LIQUID, N.O.S.

· **14.3 Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class**

8 Corrosive substances.

· **Label**

8

· **14.4 Packing group**

· **ADR, IMDG, IATA**

III

· **14.5 Environmental hazards**

None.

· **Marine pollutant:**

No

· **14.6 Special precautions for user**

Warning: Corrosive substances.

· **Danger code (Kemler):**

80

· **EMS Number:**

F-A,S-B

· **14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **Transport category**

3

· **Tunnel restriction code**

E

· **IMDG**

· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

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· UN "Model Regulation":

Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.
- **15.2 Chemical safety assessment** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

- **Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Skin Sens. 1: Skin sensitisation – Category 1
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3