

Safety Data Sheet according to Reg. (EC) n.1907/2006 (REACH) - SOFT LB2

Safety Data Sheet dated 25/3/2024, version 1

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

1.1. Product identifier

Mixture identification:

Trade name:

SOFT LB2

Trade code:

G13-002

UFI:

N5F2-V0T3-W002-D88F

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

Recommended use:

Alkaline liquid laundry detergent. For professional use only.

Products categories: PC35 - washing and cleaning products. This category includes water and solvent based products.

Use at industrial sites (IS). Widespread use by professional workers (PW).

Uses advised against:

Do not use for purposes other than those indicated.

1.3. Details of the supplier of the safety data sheet

Company:

G.B.M. ELETTRICIMICA s.r.l.

Via Fiumicino San Mauro, 120/130 - 47039 – Savignano Sul Rubicone (FC) Italy

tel +39 0541 930058

e-mail: gbm@gbmprodottichimici.it**web site: www.gbmprodottichimici.it**

1.4. Emergency telephone number

+39 0541-930058

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Met. Corr. 1, H290 May be corrosive to metals.

Acute Tox. 4, H302 Harmful if swallowed.

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

Eye Dam. 1, H318 Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P264 Wash hands thoroughly with water after handling.

P280 Wear protective gloves and eye/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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

P312 In case of malaise, contact a POISON CENTRE/doctor.

P390 Absorb spillage to prevent material damage.

Special Provisions:

None

Contains

potassium hydroxide; caustic potash

Phosphonic polymer

Etidronic acid

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Ingredients according to EC Detergents Regulation 648/2004:

<5%: phosphonates, polycarboxylates

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
$\geq 20\%$ - < 30%	potassium hydroxide; caustic potash	Index 019-002-00-8 number: CAS: 1310-58-3 EC: 215-181-3 REACH No.: 01- 2119487136- 33-XXXX	 2.16/1 Met. Corr. 1 H290  3.2/1A Skin Corr. 1A H314  3.3/1 Eye Dam. 1 H318  3.1/4/Oral Acute Tox. 4 H302 Specific Concentration Limits: C $\geq 5\%$: Skin Corr. 1A H314 2% \leq C < 5%: Skin Corr. 1B H314 0,5% \leq C < 2%: Skin Irrit. 2 H315 0,5% \leq C < 2%: Eye Irrit. 2 H319
$\geq 1\%$ - < 5%	Phosphonic polymer		 2.16/1 Met. Corr. 1 H290  3.2/1C Skin Corr. 1C H314  3.3/1 Eye Dam. 1 H318
$\geq 1\%$ - < 5%	Etidronic acid	CAS: 2809-21-4 EC: 220-552-8	 2.16/1 Met. Corr. 1 H290

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		REACH No.: 01-2119510391-53-XXXX	 3.1/4/Oral Acute Tox. 4 H302  3.3/1 Eye Dam. 1 H318
>= 0.25% - < 0.5%	hydrochloric acid ... %	Index number: 017-002-01-X CAS: 7647-01-0 EC: 231-595-7 REACH No.: 01-2119484862-27-XXXX	 3.2/1B Skin Corr. 1B H314  3.8/3 STOT SE 3 H335 Specific Concentration Limits: C >= 25%: Skin Corr. 1B H314 10% <= C < 25%: Skin Irrit. 2 H315 10% <= C < 25%: Eye Irrit. 2 H319 C >= 10%: STOT SE 3 H335

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- Remove contaminated clothing immediately and dispose off safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do NOT induce vomiting.
- Give nothing to eat or drink.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

- Water.
- Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.

5.3. Advice for firefighters

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Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
 - Wear personal protection equipment.
 - Remove persons to safety.
 - See protective measures under point 7 and 8.
- 6.2. Environmental precautions
 - Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
 - Retain contaminated washing water and dispose it.
 - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
 - Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
 - Wash with plenty of water.
- 6.4. Reference to other sections
 - See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
 - Avoid contact with skin and eyes, inhalation of vapours and mists.
 - Don't use empty container before they have been cleaned.
 - Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
 - See also section 8 for recommended protective equipment.
 - Advice on general occupational hygiene:
 - Contaminated clothing should be changed before entering eating areas.
 - Do not eat or drink while working.
- 7.2. Conditions for safe storage, including any incompatibilities
 - Store the product only in its original closed containers, in a cool, dry and well-ventilated areas at temperatures below 0 °C and not higher than 40 °C.
 - Keep away from food, drink and feed.
 - Incompatible materials:
 - None in particular.
 - Instructions as regards storage premises:
 - Adequately ventilated premises.
- 7.3. Specific end use(s)
 - None in particular

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
 - potassium hydroxide; caustic potash - CAS: 1310-58-3
 - ACGIH - STEL: Ceiling 2 mg/m³ - Notes: N.A.
 - hydrochloric acid ... % - CAS: 7647-01-0
 - EC - STEL: 15 mg/m³, 10 ppm
 - EC - TWA: 8 mg/m³, 5 ppm
 - UE - TWA(8h): 8 mg/m³, 5 ppm - STEL: 15 mg/m³, 10 ppm
 - ACGIH - STEL: Ceiling 2 ppm - Notes: N.A.
- DNEL Exposure Limit Values
- Etidronic acid - CAS: 2809-21-4

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Consumer: 1.7 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 1.7 mg/kg b.w./day - Exposure: Human Oral - Frequency: Short Term, systemic effects

Consumer: 2.95 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 17 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 12 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 34 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

hydrochloric acid ... % - CAS: 7647-01-0

Worker Professional: 8 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects - Endpoint: Irritation (respiratory tract)

Worker Professional: 15 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term (acute) - Endpoint: Irritation (respiratory tract)

Consumer: 8 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects - Endpoint: Irritation (respiratory tract)

Consumer: 15 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term (acute) - Endpoint: Irritation (respiratory tract)

PNEC Exposure Limit Values

Etidronic acid - CAS: 2809-21-4

Target: Fresh Water - Value: 0.068 mg/l

Target: Marine water - Value: 0.007 mg/l

Target: Freshwater sediments - Value: 136 mg/kg dry weight

Target: Marine water sediments - Value: 13.6 mg/kg dry weight

Target: Soil - Value: 10 mg/kg dry weight

Target: Secondary poisoning - Value: 3.7 g/kg

Target: Sewage treatment plant - Value: 40 mg/l

8.2. Exposure controls**Eye protection:**

Eye glasses with side protection.

Protection for skin:

Chemical protection clothing.

Protection for hands:

Use protective gloves resistant to chemicals. The choice of hand PPE must be made on the basis of its better resistance to chemical agents, taking into account the results of tests obtained in accordance with EN 374. Because of the great diversity of types, you should follow the instructions of the manufacturers. Suitable materials for short contact (recommended: at least protection index 2, corresponding to > 30 minutes permeation time according to EN 374). Butyl rubber - 0.7 mm thick. Suitable materials for direct and prolonged contact (recommended: protection index 6, corresponding > 460 minutes of permeation time according to EN 374) nitro-caoutchouc (NBR) - 0.4 mm thick.

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	straw yellow	--	--
Odour:	CHARACTERISTIC	--	--
Melting point/freezing point:	Not Relevant	--	--
Boiling point or initial boiling point and boiling range:	Not Relevant	--	--
Flammability:	Non-flammable	--	--
Lower and upper explosion limit:	Not Relevant	--	--
Flash point:	Not Relevant	--	--
Auto-ignition temperature:	Not Relevant	--	--
Decomposition temperature:	Not Relevant	--	--
pH:	13	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	SOLUBLE	--	--
Solubility in oil:	Not Relevant	--	--
Partition coefficient n-octanol/water (log value):	Not Relevant	--	--
Vapour pressure:	Not Relevant	--	--
Density and/or relative density:	1.25 ± 0.05 kg/l	--	--
Relative vapour density:	Not Relevant	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes
Explosive properties:	ABSENT	--	--
Miscibility:	MISCIBLE	--	--
Oxidizing properties:	ABSENT	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

It may generate flammable gases on contact with halogenated organic substances, and elementary metals.

10.4. Conditions to avoid

Avoid contact with acids.

10.5. Incompatible materials

Do not mix with acids, oxidizing and / or reducing agents. Aluminum, light metals.

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Avoid contact with strong oxidizing and reducing agents, strong acids and bases

10.6. Hazardous decomposition products

Under normal conditions of storage and use, are not known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

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a) acute toxicity

The product is classified: Acute Tox. 4 H302

ATEmix - Oral 1440,73 mg/kg bw

b) skin corrosion/irritation

The product is classified: Skin Corr. 1A H314

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

d) respiratory or skin sensitisation

Not classified

No data available for the product

e) germ cell mutagenicity

Not classified

No data available for the product

f) carcinogenicity

Not classified

No data available for the product

g) reproductive toxicity

Not classified

No data available for the product

h) STOT-single exposure

Not classified

No data available for the product

i) STOT-repeated exposure

Not classified

No data available for the product

j) aspiration hazard

Not classified

No data available for the product

Toxicological information of the main substances found in the product:

potassium hydroxide; caustic potash - CAS: 1310-58-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 333 mg/kg

Etidronic acid - CAS: 2809-21-4

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 7940 mg/kg bw

Test: LD50 - Route: Oral - Species: Rabbit = 1100 mg/kg bw

hydrochloric acid ... % - CAS: 7647-01-0

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 45.6 mg/l - Duration: 5min

b) skin corrosion/irritation:

Test: Skin Corrosive - Route: Skin - Species: Rabbit Positive - Causes severe skin burns

c) serious eye damage/irritation:

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Test: Eye Corrosive - Route: Eyes - Species: Rabbit Positive - Causes serious eye damage

h) STOT-single exposure:

Test: Respiratory Tract Irritant Positive - May irritate the respiratory tract

i) STOT-repeated exposure:

Test: NOAEL(C) - Route: Inhalation - Species: Rat = 20 ppm

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information**12.1. Toxicity**

Adopt good working practices, so that the product is not released into the environment.

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Not classified for environmental hazards

Based on available data, the classification criteria are not met potassium hydroxide; caustic potash - CAS: 1310-58-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 80 mg/l - Duration h: 96

Etidronic acid - CAS: 2809-21-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 527 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 7.2 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish = 368 mg/l - Duration h: 96

hydrochloric acid ... % - CAS: 7647-01-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 3.25 pH - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 4.92 pH - Duration h: 48

Endpoint: EC50 - Species: Algae = 4.7 pH - Duration h: 72

12.2. Persistence and degradability

None

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Biodegradability: The formulation does not contain surfactants.

The organic substances are eliminated in normal wastewater treatment plants.

Etidronic acid - CAS: 2809-21-4

Biodegradability: Non-readily biodegradable

12.3. Bioaccumulative potential

hydrochloric acid ... % - CAS: 7647-01-0

Bioaccumulation: Not bioaccumulative

12.4. Mobility in soil

hydrochloric acid ... % - CAS: 7647-01-0

Mobility in soil: The product is very volatile

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7. Other adverse effects

None

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

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Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

- 14.1. UN number or ID number
- | | |
|-----------------|------|
| ADR-UN number: | 3266 |
| RID-UN Number: | 3266 |
| ADN-UN Number: | 3266 |
| IATA-Un number: | 3266 |
| IMDG-Un number: | 3266 |
- 14.2. UN proper shipping name
- | | |
|---------------------|---|
| ADR-Shipping Name: | Basic corrosive inorganic liquid, N.O.S. (mixture containing potassium hydroxide) |
| IATA-Shipping Name: | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (potassium hydroxide) |
| IMDG-Shipping Name: | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (potassium hydroxide) |
- 14.3. Transport hazard class(es)
- | | |
|-------------------------------------|----|
| ADR-Class: | 8 |
| ADR-Label: | 8 |
| ADR - Hazard identification number: | 80 |
| RID-Class: | 8 |
| ADN-Class: | 8 |
| IATA-Class: | 8 |
| IATA-Label: | 8 |
| IMDG-Class: | 8 |
- 14.4. Packing group
- | | |
|---------------------|-----|
| RID-Packing Group: | III |
| ADN-Packing Group: | III |
| ADR-Packing Group: | III |
| IATA-Packing group: | III |
| IMDG-Packing group: | III |
- 14.5. Environmental hazards
- | | |
|-----------|---------|
| IMDG-EMS: | F,A-S,B |
|-----------|---------|
- ADN-Environmentally hazardous in tank-vessels:
- 14.6. Special precautions for user
- | | |
|---|--|
| ADR-Transport category (Tunnel restriction code): | E |
| IMDG-Shipping Name: | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (potassium hydroxide) |
- 14.7. Maritime transport in bulk according to IMO instruments
N.A.

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- Dir. 98/24/EC (Risks related to chemical agents at work)
 - Dir. 2000/39/EC (Occupational exposure limit values)
 - Regulation (EC) n. 1907/2006 (REACH)
 - Regulation (EC) n. 1272/2008 (CLP)
 - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
 - Regulation (EU) n. 2020/878
 - Regulation (EU) n. 286/2011 (ATP 2 CLP)
 - Regulation (EU) n. 618/2012 (ATP 3 CLP)
 - Regulation (EU) n. 487/2013 (ATP 4 CLP)

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Regulation (EU) n. 944/2013 (ATP 5 CLP)
 Regulation (EU) n. 605/2014 (ATP 6 CLP)
 Regulation (EU) n. 2015/1221 (ATP 7 CLP)
 Regulation (EU) n. 2016/918 (ATP 8 CLP)
 Regulation (EU) n. 2016/1179 (ATP 9 CLP)
 Regulation (EU) n. 2017/776 (ATP 10 CLP)
 Regulation (EU) n. 2018/669 (ATP 11 CLP)
 Regulation (EU) n. 2018/1480 (ATP 13 CLP)
 Regulation (EU) n. 2019/521 (ATP 12 CLP)
 Regulation (EU) n. 2020/217 (ATP 14 CLP)
 Regulation (EU) n. 2020/1182 (ATP 15 CLP)
 Regulation (EU) n. 2021/643 (ATP 16 CLP)
 Regulation (EU) n. 2021/849 (ATP 17 CLP)
 Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

Restriction 75

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Corr. 1C	3.2/1C	Skin corrosion, Category 1C
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2

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STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Met. Corr. 1, H290	On basis of test data
Acute Tox. 4, H302	Calculation method
Skin Corr. 1A, H314	Calculation method
Eye Dam. 1, H318	Calculation method

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.



PRODOTTI PER LAVANDERIE

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TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.