

Safety Data Sheet dated 4/10/2019, version 1 This version cancels and substitutes any previous version

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

1.1. Product identifier

Mixture identification:

Trade name: ALKALINE ULTRA

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

Recommended use:

Condensers cleaner

1.3. Details of the supplier of the safety data sheet

Company:

ERRECOM SRL

Via Industriale, 14

Corzano (BS) Italy

Tel. +39 030/9719096

Competent person responsible for the safety data sheet:

lab@errecom.it

1.4. Emergency telephone number

+39 02-6610-1029 Poison Control Center Niguarda Ca' Granda - Milano - ITALY

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)



Warning, Skin Irrit. 2, Causes skin irritation.



Danger, Eye Dam. 1, Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

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

Special Provisions:

None

Contains

ethoxylated fatty alcohols

sodium hydroxide

tetrasodium ethylene diamine tetraacetate

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

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

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

Qty	Name	Ident. Numb	er	Classification
>= 15% - < 20%	2-(2-butoxyethoxy)etha	Index number:	603-096-00-8	3.3/2 Eye Irrit. 2 H319
		CAS: EC: REACH No.:	112-34-5 203-961-6 01-21194751	
>= 15% - < 20%	ethoxylated fatty alcohols	CAS:	04-44-XXXX 24938-91-8	3.1/4/Oral Acute Tox. 4 H302 3.3/1 Eye Dam. 1 H318 4.1/C3 Aquatic Chronic 3 H412
>= 2.5% - < 5%	ethanediol	Index number: CAS: EC: REACH No.:	603-027-00-1 107-21-1 203-473-3 01-21194568 16-28-XXXX	3.1/4/Oral Acute Tox. 4 H302
>= 2.5% - < 5%	sodium hydroxide	Index number: CAS: EC: REACH No.:	011-002-00-6 1310-73-2 215-185-5 01-21194578 92-27-XXXX	2.16/1 Met. Corr. 1 H290 3.2/1A Skin Corr. 1A H314 3.3/1 Eye Dam. 1 H318
>= 1% - < 2.5%	tetrasodium ethylene diamine tetraacetate	Index number: CAS: EC:	607-428-00-2 64-02-8 200-573-9	 \$\int \text{3.1/4/Inhal Acute Tox. 4 H332}\$ \$\int \text{3.1/4/Oral Acute Tox. 4 H302}\$ \$\int \text{3.3/1 Eye Dam. 1 H318}\$ \$\int \text{3.9/2 STOT RE 2 H373}\$

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

After contact with skin, wash immediately with soap and plenty of water.

Wash contaminated clothing before using them.

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 opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

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

No information available.

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

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.



Advice on general occupational hygiene:

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool and well ventilated place.

Store away from direct sunlight.

Keep away from food, drink and feed.

Incompatible materials:

Store containers away from any incompatible materials, checking section 10.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Information not available.

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters
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2-(2-butoxyethoxy)ethanol - CAS: 112-34-5

EU - TWA(8h): 67.5 mg/m3, 10 ppm - STEL: 101.2 mg/m3, 15 ppm

ACGIH - TWA(8h): 10 ppm - Notes: (IFV) - Hematologic, liver and kidney eff

ethanediol - CAS: 107-21-1

EU - TWA(8h): 52 mg/m3, 20 ppm - STEL: 104 mg/m3, 40 ppm - Notes: Skin

ACGIH - STEL: 10 mg/m3 - Notes: (I, H), A4 - URT irr

AGW - TWA(8h): 26 mg/m3, 10 ppm - STEL(15min): 52 mg/m3, 20 ppm - Notes: Skin

MAK - TWA(8h): 26 mg/m3, 10 ppm - STEL(15min): 52 mg/m3, 20 ppm - Notes: Skin

VLA - TWA(8h): 52 mg/m3, 20 ppm - STEL(15min): 104 mg/m3, 40 ppm - Notes: Skin

VLEP - TWA(8h): 52 mg/m3, 20 ppm - STEL(15min): 104 mg/m3, 40 ppm - Notes:

Skin

WEL - TWA(8h): 52 mg/m3, 20 ppm - STEL(15min): 104 mg/m3, 40 ppm

TLV - TWA(8h): 125 mg/m3, 50 ppm - STEL(15min): 125 mg/m3, 50 ppm

GVI - TWA(8h): 52 mg/m3, 20 ppm - STEL(15min): 104 mg/m3, 40 ppm - Notes: Skin

TLV - TWA(8h): 52 mg/m3, 20 ppm - STEL(15min): 104 mg/m3, 40 ppm - Notes: Skin

NDS - TWA(8h): 15 mg/m3 - STEL(15min): 20 mg/m3

NPHV - TWA(8h): 52 mg/m3, 20 ppm - STEL(15min): 104 mg/m3, 40 ppm - Notes:

Skin

ESD - TWA(8h): 52 mg/m3, 20 ppm - STEL(15min): 104 mg/m3, 40 ppm - Notes: Skin

OEL - TWA(8h): 52 mg/m3, 20 ppm - STEL(15min): 104 mg/m3, 40 ppm - Notes: Skin

ACGIH - TWA(8h): 25 ppm - STEL: 50 ppm - Notes: (V), A4 - URT irr

sodium hydroxide - CAS: 1310-73-2

ACGIH - STEL: Ceiling 2 mg/m3 - Notes: URT, eye, and skin irr

tetrasodium ethylene diamine tetraacetate - CAS: 64-02-8

TLV - TWA: 10 mg/m3 - Notes: inhalable fraction

TLV - TWA: 3 mg/m3 - Notes: respirable fraction

DNEL Exposure Limit Values

sodium hydroxide - CAS: 1310-73-2

Worker Professional: 1 mg/m3 - Consumer: 1 mg/m3 - Exposure: Human Inhalation -

Frequency: Long Term (repeated)

tetrasodium ethylene diamine tetraacetate - CAS: 64-02-8

Worker Professional: 1.5 mg/m³ - Consumer: 0.6 mg/m³ - Exposure: Human Inhalation

- Frequency: Long Term, systemic effects

Worker Professional: 1.5 mg/m³ - Consumer: 0.6 mg/m³ - Exposure: Human Inhalation

- Frequency: Long Term, local effects

Worker Professional: 3 mg/m³ - Consumer: 1.2 mg/m³ - Exposure: Human Inhalation -

Frequency: Short Term, systemic effects



Worker Professional: 3 mg/m³ - Consumer: 1.2 mg/m³ - Exposure: Human Inhalation -

Frequency: Short Term, local effects

Consumer: 25 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic

effects - Notes: bw/day

Consumer: 25 mg/kg - Exposure: Human Oral - Frequency: Long Term, local effects

PNEC Exposure Limit Values

tetrasodium ethylene diamine tetraacetate - CAS: 64-02-8

Target: Fresh Water - Value: 2.2 mg/l Target: Marine water - Value: 0.22 mg/l

Target: Microorganisms in sewage treatments - Value: 43 mg/l

Target: Soil (agricultural) - Value: 0.72 mg/kg Target: Occasional emission - Value: 1.2 mg/l

8.2. Exposure controls

Eye protection:

Use close safety visors, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

work gloves resistant to penetration (ref. standard EN 374).

Suitable material:

NR (natural rubber, natural latex).

NBR (nitrile rubber).

Material thickness: 0.4 mm minimum.

Break through time: > 480 min

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour: liquid yellow / green

Odour: characteristic

Odour threshold: N.A.
pH: N.A.
Melting point / freezing point: N.A.
Initial boiling point and boiling range: N.A.
Solid/gas flammability: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.
Flash point: N.A.
Evaporation rate: N.A.
Vapour pressure: N.A.

Relative density: 1 g/mL (+20°C/+68°F)

Solubility in water: total Solubility in oil: N.A. Partition coefficient (n-octanol/water): N.A.



Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Viscosity: N.A.
Explosive properties: N.A.
Oxidizing properties: N.A.

9.2. Other information

Miscibility: N.A.
Fat Solubility: N.A.
Conductivity: N.A.
Substance Groups relevant properties N.A.
V.O.C. (w/w): N.A.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

ALKALINE ULTRA

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified



Based on available data, the classification criteria are not met j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met Toxicological information of the main substances found in the product:

ethoxylated fatty alcohols - CAS: 24938-91-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 300-2000 mg/kg

ethanediol - CAS: 107-21-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg Test: LD50 - Route: Skin - Species: Rabbit 9530 mg/kg

sodium hydroxide - CAS: 1310-73-2

b) skin corrosion/irritation:

Test: Skin Corrosive - Route: Skin - Species: Rabbit Positive

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Positive - Source: Guidelines 405 Test OECD

e) germ cell mutagenicity:

Test: Ames test - Species: Salmonella Typhimurium Negative

tetrasodium ethylene diamine tetraacetate - CAS: 64-02-8

a) acute toxicity:

Test: LC50 - Route: Oral - Species: Rat > 2000 mg/kg Test: LD50 - Route: Oral - Species: Rat 1780 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 1 mg/l - Duration: 4h - Notes: 41 h

2-(2-butoxyethoxy)ethanol - CAS: 112-34-5 LD50 (RAT) ORAL: 6560 MG/KG LD50 (RABBIT) SKIN: 4120 MG/KG

ethanediol - CAS: 107-21-1

LD50 (RABBIT) ORAL: 5017 MG/KG BW

SECTION 12: Ecological information

12.1. Toxicity

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

ALKALINE ULTRA

Not classified for environmental hazards

Based on available data, the classification criteria are not met

ethoxylated fatty alcohols - CAS: 24938-91-8

a) Aquatic acute toxicity:

Endpoint: NOEC - Species: Fish > 0.1-1 mg/l Endpoint: NOEC - Species: Daphnia > 0.1-1 mg/l Endpoint: NOEC - Species: Algae > 0.1-1 mg/l

sodium hydroxide - CAS: 1310-73-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 189 mg/l - Duration h: 48

Endpoint: EC0 - Species: Daphnia = 40.4 mg/l - Duration h: 48 - Notes: Species:

Ceriodaphnia dubia

Endpoint: LC50 - Species: Fish 125 mg/l - Duration h: 96 - Notes: Species: Gambusia

affinis

Endpoint: LC50 - Species: Fish 45.4 mg/l - Duration h: 96 - Notes: Species

Oncorhynchus mykiss

tetrasodium ethylene diamine tetraacetate - CAS: 64-02-8



a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: Species: lepomis

macrochirus

Endpoint: EC50 - Species: Daphnia = 625 mg/l - Duration h: 24 - Notes: Species:

Daphnia magna

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 - Notes: Species:

Pseudokirchneriella subcapitata

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: Species: lepomis macrochirus; Nominal concentration. The product has not been tested. The indications are derived from substances / products of similar composition or structure.

Endpoint: EC50 - Species: Daphnia 140 mg/l - Duration h: 48 - Notes: Species:

Daphnia magna

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 - Notes: Species:

Scenedsmus obliquus; Nominal concentration

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 36.9 mg/l - Duration h: 840 - Notes: Species: Brachydanio rerio; OECD TG 210 The indications of the toxic action refer to the analytically determined concentration. The product has not been tested. The indications are derived from substances/products of similar composition or structure. Endpoint: NOEC - Species: Daphnia 25 mg/l - Duration h: 504 - Notes: Species: Daphnia magna; OECD TG 211; Nominal concentration. The product has not been tested. The indications are derived from substances / products of similar composition or structure.

c) Bacteria toxicity:

Endpoint: EC50 > 500 mg/l - Notes: Exposure time: 30' Species: Bacteria

d) Terrestrial toxicity:

Endpoint: LC50 - Species: earthworms 156 mg/kg - Duration h: 336 - Notes: Species: Eisenia foetida; OECD TG 207; The product has not been tested. The indications are derived from substances / products of similar composition or structure.

f) Effects in sewage plants:

Endpoint: EC20 - Species: Microorganisms > 500 mg/l - Duration h: 0.5 - Notes: Species: activated mud; OECD TG 209; Nominal concentration. The correct introduction of low concentrations in a biological purification plant should not compromise the degradation activity of activated sludge. The product has not been tested.

12.2. Persistence and degradability

ethoxylated fatty alcohols - CAS: 24938-91-8

Biodegradability: Readily biodegradable - Test: OECD 301 - Notes: (>70%) OECD 301 F

ethanediol - CAS: 107-21-1

Biodegradability: Readily biodegradable - Test: Solubility in water - Notes: 1000 - 10000 mg/L

12.3. Bioaccumulative potential

ethanediol - CAS: 107-21-1

Bioaccumulation: Very low bioaccumulative - Test: Kow - Partition coefficient 1.360000-tetrasodium ethylene diamine tetraacetate - CAS: 64-02-8

Bioaccumulation: Very low bioaccumulative - Test: BCF - Bioconcentrantion factor 1.8 - Duration: 28 d

12.4. Mobility in soil

ethanediol - CAS: 107-21-1

Mobility in soil: Mobile - Notes: Source: bibliography

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None



SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

IMDG-Marine pollutant: No

14.6. Special precautions for user

N.A.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code 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) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

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)

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 55

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:

H319 Causes serious eye irritation.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

H373 May cause damage to organs (respiratory tract) through prolonged or repeated exposure if inhaled.

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/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
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
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

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
Skin Irrit. 2, H315	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.
TLV: Threshold Limiting Value.
TWA: Time-weighted average
WGK: German Water Hazard Class.