

## Safety Data Sheet

### Secoclor Extra

Safety Data Sheet dated 04/12/2022 version 13

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

### 1.1. Product identifier

Trade name: Secoclor Extra

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

Recommended use: DETERGENT

FOR PROFESSIONAL USE

Uses advised against: N.A.

### 1.3. Details of the supplier of the safety data sheet

Company:

ESSECO S.r.l. Via San Cassiano 99

28069 - Trecate (NO)

Italy

Enartis - Phone n. +39-0321-790300

Competent person responsible for the safety data sheet: vino@enartis.it

### 1.4. Emergency telephone number

Enartis - Phone n. +39-0321-790300

Malta: 112

## SECTION 2: Hazards identification



### 2.1. Classification of the substance or mixture

#### Regulation (EC) n. 1272/2008 (CLP)

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

Eye Dam. 1 Causes serious eye damage.

Aquatic Acute 1 Very toxic to aquatic life.

Aquatic Chronic 2 Toxic to aquatic life with long lasting effects.

Met. Corr. 1 May be corrosive to metals.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

#### Regulation (EC) No 1272/2008 (CLP):

#### Pictograms and Signal Words



Danger

#### Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P273 Avoid release to the environment.

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

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

1

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

3

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 doctor.

P391 Collect spillage.

#### Special Provisions:

EUH031 Contact with acids liberates toxic gas.

#### Contains

sodium hypochlorite, solution 12-15% Cl active

Sodium Hydroxide; Caustic Soda

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

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

N.A.

#### 3.2. Mixtures

Mixture identification: Secoclor Extra

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

Qty	Name	Ident. Numb.	Classification	Registration Number
$\geq 10 - < 12.5\%$	sodium hypochlorite, solution 12-15% Cl active	CAS:7681-52-9 EC:231-668-3 Index:017-011-00-1	Met. Corr. 1, H290; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Corr. 1, H314, M-Chronic:1, M-Acute:10, EUH031	01-2119488154-34-XXXX
$\geq 1 - < 3\%$	Sodium Hydroxide; Caustic Soda	CAS:1310-73-2 EC:215-185-5 Index:011-002-00-6	Met. Corr. 1, H290; Eye Dam. 1, H318; Skin Corr. 1A, H314	01-2119457892-27-XXXX

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

Wash immediately with water.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

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.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and hazard labelling.

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

Eye damages

Skin Irritation

Erythema

#### 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).

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

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.

### 5.3. Advice for firefighters

Wear suitable protective clothing (helmet, protective clothings, goggles, fire resistant gloves, boots) and protect respiratory organs (self contained breathing apparatus).

Use suitable breathing apparatus .

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

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

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

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## 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.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Dispose of the collected material in accordance with the current regulations.

Wash with plenty of water.

Retain contaminated washing water and dispose it.

### 6.4. Reference to other sections

See also section 8 and 13

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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:

Contaminated 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

Keep away from food, drink and feed.

Incompatible materials:

Keep away from acids.

Instructions as regards storage premises:

Adequately ventilated premises.

### 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Community Occupational Exposure Limits (OEL)

	OEL Type	Ceilin g	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Notes
sodium hypochlorite, solution 12-15% Cl active CAS: 7681-52-9	ACGIH				1.500	0.500	
Sodium Hydroxide;	ACGIH	C			2.000		URT, eye, and skin irr

Caustic Soda  
CAS: 1310-73-2

National	10.000	IDLH
National C	2.000	

**Predicted No Effect Concentration (PNEC) values**

	<b>PNEC Limit</b>	<b>Exposure Route</b>	<b>Exposure Frequency</b>	<b>Remark</b>
sodium hypochlorite, solution 12-15% Cl active CAS: 7681-52-9	0.21 ppb	Fresh Water		
	0.042 ppb	Marine water		

**Derived No Effect Level (DNEL) values**

	<b>Worker Industry</b>	<b>Worker Professional</b>	<b>Consumer</b>	<b>Exposure Route</b>	<b>Exposure Frequency</b>	<b>Remark</b>
sodium hypochlorite, solution 12-15% Cl active CAS: 7681-52-9		1.55 mg/m3	1.55 mg/m3	Human Inhalation		Long Term, local effects
		1.55 mg/m3	1.55 mg/m3	Human Inhalation		Long Term, systemic effects
		3.1 mg/m3	3.1 mg/m3	Human Inhalation		Short Term, local effects
		3.1 mg/m3	3.1 mg/m3	Human Inhalation		Short Term, systemic effects
		3.1 mg/m3	0.26 mg/kg	Human Oral		Long Term, systemic effects
		1.55 mg/m3	3.1 mg/m3	Human Inhalation		Short Term, systemic effects
			3.1 mg/m3	Human Inhalation		Short Term, local effects
Sodium Hydroxide; Caustic Soda CAS: 1310-73-2		1 ppm		Human Inhalation		Long Term, local effects
			1 ppm	Human Inhalation		Long Term, local effects

**8.2. Exposure controls**

Individual protection measures:

Personal protective equipment selections vary based on potential exposure conditions and working conditions.

The final choice of protective equipment will depend upon a risk assessment.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Please see both sections 5 and 6 for information about personal protective equipment to be worn in an emergency (e.g.: fire or unintentional release of the substance).

Eye protection:

Chemical risk goggles (with side protection).

Technical reference standard: UNI EN 166

Protection for skin:

Chemical protection clothing.

Technical reference standard: UNI EN 13034

Wear chemical resistant safety shoes.

Technical reference standard: UNI EN 20345

Protection for hands:

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.

Glove suitability and breakthrough time will differ depending on the specific use conditions.

Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions.

Wear suitable gloves tested to EN374.

NBR (nitrile rubber) (Recommended thickness of the material: 0.4 mm; Permeation time: > 480 min)

Respiratory protection:

Depending on the potential for exposure, select respiratory protective equipment suitable for the specific conditions of use and in

compliance with current legislation.

Half-face mask with combined filter

Technical reference standard for filters to be used in the presence of gases and vapours: UNI EN 14387

Combined filter: B/K-P2 (grey-green-white colour)

Technical reference standard: UNI EN 149

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical State: Liquid

Color: N.A.

Odour: Characteristic

pH:  $\pm 13.00$

Kinematic viscosity: N.A.

Melting point / freezing point:  $\pm 0^{\circ}\text{C}$

Initial boiling point and boiling range:  $\pm 100^{\circ}\text{C}$

Flash point: N.A.

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

Vapour density: N.A.

Vapour pressure: N.A.

Relative density:  $\pm 1.15 \text{ g/mL}$

Solubility in water: 100%

Solubility in oil: 0%

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = N.A.

#### Particle characteristics:

Particle size: N.A. ( Does not apply to liquid. )

### 9.2. Other information

Miscibility: N.A.

Conductivity: N.A.

Evaporation rate: N.A.

No other relevant information

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is an oxidant and it reacts violently with reducing materials. The aqueous solution is a strong base, it reacts violently with acid and it is corrosive.

In contact with acids releases chlorine, toxic gas.

Stable under normal conditions

### 10.2. Chemical stability

Unstable

The content in free chlorine in concentrated solutions decreases because the product tends to dissociate.

### 10.3. Possibility of hazardous reactions

In contact with acids releases chlorine, toxic gas. It reacts with ammonia and amines in solution to form explosive compounds.

Oxidizing agent; it can contribute to the combustion.

### 10.4. Conditions to avoid

Acids

Keep away from heat and direct sunlight.

### 10.5. Incompatible materials

Alkali metals, organic materials. It reacts vigorously with halogens, nitrates, magnesium and azides. The contact with aluminum, tin and zinc causes the release of gaseous hydrogen. Keep away from combustible and reducing substances, acids, food and feedstuffs.

### 10.6. Hazardous decomposition products

Chlorine

## SECTION 11: Toxicological information

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

#### Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
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
	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 on main components of the mixture:

sodium hypochlorite, solution 12-15% Cl active	a) acute toxicity	LC50 Inhalation Rat > 10500 mg/m <sup>3</sup>
		LD50 Oral Rat = 1100 mg/kg
		LD50 Skin Rat > 2000 mg/kg
	b) skin corrosion/irritation	Skin Irritant Skin Positive Eye Irritant Skin Positive
	d) respiratory or skin sensitisation	Respiratory Tract Irritant Inhalation Positive
Sodium Hydroxide; Caustic Soda	a) acute toxicity	LD50 Oral Rabbit = 325 mg/kg
		LD50 Skin Rabbit = 1350 mg/kg
		Respiratory Tract Irritant Positive
	b) skin corrosion/irritation	Skin Corrosive Skin Rabbit Positive Eye Corrosive Rabbit Positive
	d) respiratory or skin sensitisation	Respiratory Sensitization Inhalation Negative Skin Sensitization Skin Negative

### 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.

Eco-Toxicological Information:

Toxic to aquatic life with long lasting effects.

#### List of Eco-Toxicological properties of the product

The product is classified: Aquatic Acute 1(H400), Aquatic Chronic 2(H411)

#### List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
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sodium hypochlorite, solution 12-15% Cl active

CAS: 7681-52-9  
- EINECS: 231-668-3 - INDEX: 017-011-00-1

a) Aquatic acute toxicity : LC50 Fish = 0.06 mg/l 96h - Soft water

a) Aquatic acute toxicity : EC50 Daphnia = 0.141 mg/l 48h

a) Aquatic acute toxicity : EC50 Algae = 0.04 mg/l

b) Aquatic chronic toxicity : NOEC Algae = 0.017 mg/l

b) Aquatic chronic toxicity : NOEC Fish = 0.04 mg/l

b) Aquatic chronic toxicity : NOEC aquatic invertebrates = 0.007 mg/l - oyster sea water

Sodium Hydroxide; Caustic Soda

CAS: 1310-73-2  
- EINECS: 215-185-5 - INDEX: 011-002-00-6

a) Aquatic acute toxicity : LC50 Fish = 189 mg/l 96h

a) Aquatic acute toxicity : EC50 Bacteria = 22 mg/l - „15 min (Photobacterium phosphoreum) (EU, 2007 OECD, 2002)

b) Aquatic chronic toxicity : EC50 Daphnia = 40.4 mg/l 48h

## 12.2. Persistence and degradability

Component	Persistence/Degradability:
Sodium Hydroxide; Caustic Soda	Readily biodegradable

## 12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Value
sodium hypochlorite, solution 12-15% Cl active	Not bioaccumulative	Kow - Partition coefficient	-3.42
Sodium Hydroxide; Caustic Soda	Not bioaccumulative		

## 12.4. Mobility in soil

Component	Mobility in soil
sodium hypochlorite, solution 12-15% Cl active	Mobile
Sodium Hydroxide; Caustic Soda	Mobile

## 12.5. Results of PBT and vPvB assessment

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

## 12.6. Endocrine disrupting properties

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

## 12.7. Other adverse effects

N.A.

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## 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.

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## SECTION 14: Transport information

### 14.1. UN number or ID number

1791

### 14.2. UN proper shipping name

ADR-Shipping Name: IPOCLORITO IN SOLUZIONE

### 14.3. Transport hazard class(es)

ADR-Class: 8

IATA-Class: 8

IMDG-Class: 8

### 14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

#### 14.5. Environmental hazards

Marine pollutant: Yes

Environmental Pollutant: Yes

IMDG-EMS: F-A, S-B

#### 14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Transport category (Tunnel restriction code): (E)

Air (IATA):

IATA-Passenger Aircraft: 852

IATA-Cargo Aircraft: 856

IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisions: A3 A803

Sea (IMDG):

IMDG-Stowage Code: Category B

IMDG-Subsidiary hazards: -

#### 14.7. Maritime transport in bulk according to IMO instruments

N.A.

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### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EU) n. 2020/878

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

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)

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)

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: 3

Restrictions related to the substances contained: None.

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

N.A.

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

Where applicable, refer to the following regulatory provisions :

German Water Hazard Class.

3: Severe hazard to waters

SVHC Substances:



No data available

Reg (CE) N. 648/2004. Contiene:

5-10% Sbiancanti base cloro

< 5% fosfonati

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

Code	Description
EUH031	Contact with acids liberates toxic gas.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
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.

Code	Hazard class and hazard category	Description
2.16/1	Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
3.2/1	Skin Corr. 1	Skin corrosion, Category 1
3.2/1A	Skin Corr. 1A	Skin corrosion, Category 1A
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2

### 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
3.2/1A	On basis of test data (pH)
3.3/1	On basis of test data (pH)
4.1/A1	Calculation method
4.1/C2	Calculation method
2.16/1	On basis of test data

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.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment  
CSR: Chemical Safety Report  
DMEL: Derived Minimal Effect Level  
DNEL: Derived No Effect Level.  
DPD: Dangerous Preparations Directive  
DSD: Dangerous Substances Directive  
EC50: Half Maximal Effective Concentration  
ECHA: European Chemicals Agency  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
ES: Exposure Scenario  
GefStoffVO: Ordinance on Hazardous Substances, Germany.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
IC50: half maximal inhibitory concentration  
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.  
IRCCS: Scientific Institute for Research, Hospitalization and Health Care  
KAFH: KAFH  
KSt: Explosion coefficient.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
LDLo: Leathal Dose Low  
N.A.: Not Applicable  
N/D: Not defined/ Not available  
NIOSH: National Institute for Occupational Safety and Health  
NOAEL: No Observed Adverse Effect Level  
OSHA: Occupational Safety and Health Administration.  
PBT: Persistent, Bioaccumulative and Toxic  
PGK: Packaging Instruction  
PNEC: Predicted No Effect Concentration.  
PSG: Passengers  
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.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
vPvB: Very Persistent, Very Bioaccumulative.  
WGK: German Water Hazard Class.

**Paragraphs modified from the previous revision:**

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