

## Safety Data Sheet

### Secosan Eco

Safety Data Sheet dated 03/02/2023 version 1

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

### 1.1. Product identifier

Trade name: Secosan Eco

### 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 - Trecale (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)

Eye Dam. 1 Causes serious eye damage.

Acute Tox. 4 Harmful if swallowed.

Ox. Sol. 3 May intensify fire; oxidiser.

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

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible materials.

P280 Wear eye/face protection: wear eye glasses with side protection.

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.

P370+P378 In case of fire, use a CO2 fire extinguisher to extinguish.

#### Contains

Sodium Percarbonate; Disodium Carbonate

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: Secosan Eco

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

Qty	Name	Ident. Numb.	Classification	Registration Number
$\geq 40 - < 50$ %	Sodium Percarbonate; Disodium Carbonate	CAS:15630-89-4 EC:239-707-6	Acute Tox. 4, H302; Eye Dam. 1, H318; Ox. Sol. 3, H272	01-2119457268-30-XXXX
$\geq 30 - < 40$ %	Sodium Carbonate	CAS:497-19-8 EC:207-838-8 Index:011-005-00-2	Eye Irrit. 2, H319	01-2119485498-19-XXXX
$< 0.1$ %	Phosphoric acid, Orthophosphoric acid	CAS:7664-38-2 EC:231-633-2 Index:015-011-00-6	Met. Corr. 1, H290; Acute Tox. 4, H302; Skin Corr. 1B, H314	01-21194855924-24-XXXX

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

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

Wash immediately with water.

Wash thoroughly the body (shower or bath).

In case of eyes contact:

Protect uninjured eye.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

In case of Ingestion:

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

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

Eye damages

### 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:

In case of fire, use a CO2 fire extinguisher to extinguish.

Carbon dioxide (CO2).

Foaming

Extinguishing media which must not be used for safety reasons:

full jet of water.

### 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

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

If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent 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.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

Store the product in its original containers; do not mix with other products. Store away from incompatible materials. See also paragraph 10.

Keep away from combustible materials.

Instructions as regards storage premises:

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Cool and adequately ventilated.

### 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	Country	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Notes
Sodium Percarbonate; Disodium Carbonate CAS: 15630-89-4	EU		5				
Sodium Carbonate CAS: 497-19-8	National	ROM ANI A	1.000		3.000		15 minutes average value
	EU		10				
Phosphoric acid, Orthophosphoric acid	EU		1.000		2.000		

CAS: 7664-38-2

MAK	2.000		
ACGIH	1.000	3.000	URT, eye and skin irr

### Predicted No Effect Concentration (PNEC) values

	PNEC Limit	Exposure Route	Exposure Frequency	Remark
Sodium Percarbonate; Disodium Carbonate CAS: 15630-89-4	0.035 mg/l	Fresh Water		

### Derived No Effect Level (DNEL) values

	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
Sodium Percarbonate; Disodium Carbonate CAS: 15630-89-4		5 mg/m3		Human Inhalation		Long Term, local effects
Sodium Carbonate CAS: 497-19-8		10 mg/m3		Human Inhalation		Long Term, local effects
			10 mg/m3	Human Inhalation		Short Term, local effects
Phosphoric acid, Orthophosphoric acid CAS: 7664-38-2		1 mg/m3	36 mg/m3	Human Inhalation		Long Term, local effects
		2 mg/m3		Human Inhalation		Short Term, local effects
		10.7 mg/m3	4.57 mg/m3	Human Inhalation		Long Term, systemic 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:

Wear chemical resistant 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.

Use protective gloves that provides comprehensive protection.

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

UNI EN 420/UNI EN 374

### 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

Mask with filter "P", 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: Solid

Color: N.A.

Odour: Pungent

Odour threshold:

pH: 10,7 (10g/L)

Kinematic viscosity: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: N.A.

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

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 0.88 g/mL

Solubility in water:  $\pm$  100 g/L

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.

### 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

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

The alkaline content of the product causes reactions with acids (exothermic reaction) and with substances that generate acids.

It may generate toxic gases on contact with acids, amides, aliphatic and aromatic amines, carbamates, halogenated organic substances, isocyanates, organic sulphides, nitriles, organophosphates, inorganic sulphides, and polymerisable substances.

It may catch fire on contact with other substances.

### 10.4. Conditions to avoid

Heat

Humidity

### 10.5. Incompatible materials

Avoid contact with moist air, with organic materials, with heavy metal salts, with flammable or combustible materials and with reducing compounds. The product is hygroscopic: exposed to humid air and at temperatures above 40 ° C it tends to get packed.

Avoid contact with combustible materials: the product may explode.

### 10.6. Hazardous decomposition products

None

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## 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

The product is classified: Acute Tox. 4(H302)

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

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 Percarbonate; Disodium Carbonate	a) acute toxicity	LD50 Oral Rat = 2200 mg/kg  LD50 Skin Rabbit > 2000 mg/kg
	b) skin corrosion/irritation	Eye Corrosive Skin Rabbit Positive
Sodium Carbonate	a) acute toxicity	LD50 Oral Rat = 2800 mg/kg LC50 Inhalation Guineapig 0.8 mg/l 2h LC50 Inhalation Mouse = 1.2 mg/l 2h LC50 Inhalation Rat = 2.3 mg/l 2h LD50 Skin Rabbit > 2000 mg/kg
	b) skin corrosion/irritation	Eye Irritant Rabbit Positive
Phosphoric acid, Orthophosphoric acid	a) acute toxicity	LD50 Oral Rat = 1530 mg/kg  LC50 Inhalation Rat > 213 mg/m3 LD50 Skin Rabbit = 2740 mg/kg
	b) skin corrosion/irritation	Skin Corrosive Positive Eye Corrosive Positive
	g) reproductive toxicity	NOAEL Rat = 500 mg/kg
	i) STOT-repeated exposure	NOAEL Rat = 250 mg/kg

**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:

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

Not classified for environmental hazards.

No data available for the product

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

<b>Component</b>	<b>Ident. Numb.</b>	<b>Ecotox Data</b>
Sodium Percarbonate; Disodium Carbonate	CAS: 15630-89-4 - EINECS: 239-707-6	a) Aquatic acute toxicity : LC50 Fish = 70.7 mg/l 96h

Sodium Carbonate CAS: 497-19-8 - a) Aquatic acute toxicity : EC50 Daphnia = 2 mg/l 48h  
EINECS: 207-838-8 - a) Aquatic acute toxicity : LC50 Fish = 300 mg/l 96h  
INDEX: 011-005-00-2

Phosphoric acid, Orthophosphoric acid CAS: 7664-38-2 a) Aquatic acute toxicity : EC50 Crustaceans = 200 mg/l 48h  
- EINECS: 231-633-2 - a) Aquatic acute toxicity : LC50 Fish = 138 mg/l 96h  
INDEX: 015-011-00-6

a) Aquatic acute toxicity : EC50 Daphnia = 265 mg/l 48h

a) Aquatic acute toxicity : EC50 Algae > 100 mg/l 72h

## 12.2. Persistence and degradability

N.A.

## 12.3. Bioaccumulative potential

N.A.

## 12.4. Mobility in soil

N.A.

## 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

3378

### 14.2. UN proper shipping name

ADR-Shipping Name: SODIUM CARBONATE PEROXYHYDRATE

IATA-Technical name: SODIUM CARBONATE PEROXYHYDRATE

IMDG-Technical name: SODIUM CARBONATE PEROXYHYDRATE

### 14.3. Transport hazard class(es)

ADR-Class: 5.1

IATA-Class: 5.1

IMDG-Class: 5.1

### 14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

### 14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-A, S-Q

### 14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 5.1

ADR - Hazard identification number: 50

ADR-Special Provisions: -

ADR-Transport category (Tunnel restriction code): 3 (E)

Air (IATA):

IATA-Passenger Aircraft: 559

IATA-Cargo Aircraft: 563

IATA-Label: 5.1

IATA-Subsidiary hazards: -

IATA-Erg: 5L

IATA-Special Provisions: A803

Sea (IMDG):

IMDG-Stowage Code: Category A SW1

IMDG-Stowage Note: SG59 SGG16

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 967

#### **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: None.

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 :

3: Severe hazard to waters

SVHC Substances:

No data available

Reg. (CE) N. 648/2004 and s.m.i.

It Contains:

> 30% Oxygen-based bleaches

15-30% phosphates

#### **15.2. Chemical safety assessment**

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

**Substances for which a Chemical Safety Assessment has been carried out:**



**SECTION 16: Other information**

Code	Description
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Code	Hazard class and hazard category	Description
2.14/3	Ox. Sol. 3	Oxidising solid, Category 3
2.16/1	Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, 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 according to Regulation (EC) Nr. 1272/2008	Classification procedure
3.3/1	Calculation method
3.1/4/Oral	Calculation method
2.14/3	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.