

## Safety Data Sheet

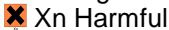

### RESFOAM 1 KM FLEX

Safety Data Sheet dated 05/07/2012, version 1

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


- 1.1. Product identifier  
Trade name: RESFOAM 1 KM FLEX
- 1.2. Relevant identified uses of the substance or mixture.  
Recommended use:  
Polyurethane foam  
Polyurethane foam  
Uses advised against:  
==
- 1.3. Details of the supplier of the safety data sheet  
Supplier:  
MAPEI S.p.A. -Via Cafiero 22 - Milan -ITALY  
Competent person responsible for the safety data sheet:  
sicurezza@mapei.it
- 1.4. Emergency telephone number  
MAPEI S.p.A. - Tel. +(39)02376731 - (office hours)  
Poison Centre - Ospedale di Niguarda - Milan - Tel. +39/02/66101029

#### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture  
Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:  
Properties / Symbols:  
Carcinogenic category 3  
 Xn Harmful  
 Xi Irritant
- R Phrases:  
R20 Harmful by inhalation.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R40 Limited evidence of a carcinogenic effect.  
R42/43 May cause sensitization by inhalation and skin contact.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- Adverse physicochemical, human health and environmental effects:  
No other hazards

#### 2.2. Label elements



- Xn  
Symbols:  
 Xn Harmful
- R Phrases:  
R20 Harmful by inhalation.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R40 Limited evidence of a carcinogenic effect.  
R42/43 May cause sensitization by inhalation and skin contact.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- S Phrases:

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S23 Do not breathe gas/fumes/vapour/spray  
S36/37 Wear suitable protective clothing and gloves.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S9 Keep container in a well-ventilated place.

Contents:

methyloxirane, polymer with oxirane, ether with 1,2,3-propanetriol, polymer with 1.1, methylenebis (isocyanatobenzene)  
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate;

Special Provisions:

Contains isocyanates. See information supplied by the manufacturer.

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 EEC directive 67/548 and CLP regulation and corresponding classification:

50% - 75% methyloxirane, polymer with oxirane, ether with 1,2,3-propanetriol, polymer with 1.1, methylenebis (isocyanatobenzene)

CAS: 112898-48-3

Carc. Cat. 3,Xn,Xi; R40-20-42/43-48/20-36/37/38

⚠ 3.1/4/Inhal Acute Tox. 4 H332

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.8/3 STOT SE 3 H335

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.1/1-1A-1B Resp. Sens. 1, 1A, 1B H334

⚠ 3.4.2/1-1A-1B Skin Sens. 1, 1A, 1B H317

⚠ 3.9/2 STOT RE 2 H373

⚠ 3.6/2 Carc. 2 H351

25% - 50% propylene carbonate

REACH No.: 01-2119537232-48-xxxx, Index number: 607-194-00-1, CAS: 108-32-7, EC: 203-572-1

Xi; R36

⚠ 3.3/2 Eye Irrit. 2 H319

20% - 25% diphenylmethane-4,4'-diisocyanate;

REACH No.: 01-2119457014-47-XXXX, Index number: 615-005-00-9, CAS: 101-68-8, EC: 202-966-0

Carc. Cat. 3,Xn,Xi; R20-36/37/38-40-42/43-48/20

⚠ 3.1/4/Inhal Acute Tox. 4 H332

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.8/3 STOT SE 3 H335

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.4.1/1-1A-1B Resp. Sens. 1, 1A, 1B H334

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- ⚠ 3.4.2/1-1A-1B Skin Sens. 1, 1A, 1B H317
- ⚠ 3.9/2 STOT RE 2 H373
- ⚠ 3.6/2 Carc. 2 H351

#### 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.

Wash thoroughly the body (shower or bath).

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.

Wash immediately with water for at least 10 minutes.

###### In case of Ingestion:

Do NOT induce vomiting.

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

A suspension of activated charcoal in water, or petroleum jelly may be administered.

###### In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

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

The product is harmful following acute exposure to it and poses a serious health threat if inhaled.

If brought into contact with the eyes, the product causes irritation that may last for over 24h, if inhaled, it causes irritation to the airways, and if brought into contact with the skin it causes significant inflammation with erythema, scabs, and oedema

The product may present a risk of carcinogenesis.

If inhaled, the product may cause sensitisation of the airways, and if brought into contact with the skin it may cause sensitisation of the skin.

This product is harmful: serious harm (functional disorders or significant morphological changes that are toxicology-related) may be caused by repeated or prolonged exposure to the product by inhalation.

##### 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:

(see paragraph 4.1)

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

Suitable extinguishing media:

None in particular.

Water.

Extinguishing media which must not be used for safety reasons:

None in particular.

##### 5.2. Special hazards arising from the substance or mixture

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Do not inhale explosion and combustion gases.  
Burning produces heavy smoke.  
The original ingredients or unidentified toxic and/or irritant compounds may be present in the combustion fumes.

#### 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.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Provide adequate ventilation.  
Use appropriate respiratory protection.  
See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

Limit leakages with earth or sand.  
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

Rapidly recover the product, wearing protective clothing.  
Suitable material for taking up: absorbing material, organic, sand  
Wash with plenty of water.  
Retain contaminated washing water and dispose it.

#### 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.  
Use localized ventilation system.  
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.  
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

Always keep the containers tightly closed.  
Always keep in a well ventilated place.  
Keep away from food, drink and feed.  
Incompatible materials:  
None in particular.  
Instructions as regards storage premises:  
Cool and adequately ventilated.

#### 7.3. Specific end use(s)

None in particular

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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methyloxirane, polymer with oxirane, ether with 1,2,3-propanetriol, polymer with 1.1, methylenebis (isocyanatobenzene) - CAS: 112898-48-3

ACGIH, 0.005 ppm

diphenylmethane-4,4'-diisocyanate; - CAS: 101-68-8

ACGIH, 0.005 ppm

SUVA - LTE mg/m<sup>3</sup>: 0.02 mg/m<sup>3</sup> - STE mg/m<sup>3</sup>: 0.02 mg/m<sup>3</sup>

NDS - LTE mg/m<sup>3</sup>: 0.03 mg/m<sup>3</sup>

NDSP - LTE mg/m<sup>3</sup>: 0.09 mg/m<sup>3</sup>

#### DNEL Exposure Limit Values

propylene carbonate - CAS: 108-32-7

Worker Industry: 50 mg/kg - Exposure: Human Dermal Long Term, systemic effects

Worker Industry: 20 mg/m<sup>3</sup> - Exposure: Human Inhalation Long Term, local effects

Worker Industry: 176 mg/m<sup>3</sup> - Exposure: Human Inhalation Long Term, systemic effects

Consumer: 25 mg/kg - Exposure: Human Dermal Long Term, systemic effects

Consumer: 43.5 mg/m<sup>3</sup> - Exposure: Human Inhalation Long Term, systemic effects

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

Consumer: 10 mg/m<sup>3</sup> - Exposure: Human Inhalation Long Term, local effects

diphenylmethane-4,4'-diisocyanate; - CAS: 101-68-8

Worker Industry: 50 mg/kg - Exposure: Human Dermal Short Term, systemic effects

Worker Industry: 0.1 mg/m<sup>3</sup> - Exposure: Human Inhalation Short Term, systemic effects

Worker Industry: 0.1 mg/m<sup>3</sup> - Exposure: Human Inhalation Short Term, local effects

Worker Industry: 0.05 mg/m<sup>3</sup> - Exposure: Human Inhalation Long Term, systemic effects

Worker Industry: 0.05 mg/m<sup>3</sup> - Exposure: Human Inhalation Long Term, local effects

Consumer: 25 mg/kg - Exposure: Human Dermal Short Term, systemic effects

Consumer: 0.05 mg/m<sup>3</sup> - Exposure: Human Inhalation Short Term, systemic effects

Consumer: 20 mg/kg - Exposure: Human Oral Short Term, systemic effects

Consumer: 0.05 mg/m<sup>3</sup> - Exposure: Human Inhalation Short Term, local effects

Consumer: 0.025 mg/m<sup>3</sup> - Exposure: Human Inhalation Long Term, systemic effects

Consumer: 0.025 mg/m<sup>3</sup> - Exposure: Human Inhalation Long Term, local effects

#### PNEC Exposure Limit Values

propylene carbonate - CAS: 108-32-7

Target: Marine water - Value: 0.09 mg/l

Target: Fresh Water - Value: 0.09 mg/l

Target: Microorganisms in sewage treatments - Value: 7400 mg/l

Target: Soil (agricultural) - Value: 0.81 mg/kg

diphenylmethane-4,4'-diisocyanate; - CAS: 101-68-8

Target: Fresh Water - Value: 1 mg/l

Target: Marine water - Value: 0.1 mg/l

Target: Soil (agricultural) - Value: 1 mg/kg

Target: Microorganisms in sewage treatments - Value: 1 mg/l

#### 8.2. Exposure controls

##### Eye protection:

Safety goggles.

Use close fitting safety goggles, 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:

Suitable materials for safety gloves; EN 374:

Polychloroprene - CR: thickness  $\geq 0,5$ mm; breakthrough time  $\geq 480$ min.

Nitrile rubber - NBR: thickness  $\geq 0,35$ mm; breakthrough time  $\geq 480$ min.

Butyl rubber - IIR: thickness  $\geq 0,5$ mm; breakthrough time  $\geq 480$ min.

Fluorinated rubber - FKM: thickness  $\geq 0,4$ mm; breakthrough time  $\geq 480$ min.

##### Respiratory protection:

Use adequate protective respiratory equipment.

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Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Thermal Hazards:

None

Environmental exposure controls:

None

In case of insufficient ventilation use mask with AK2 filters (EN 141).

#### SECTION 9: Physical and chemical properties

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

Appearance:	liquid
Colour:	light yellow
Odour:	typical
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:	> 150 °C
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	1,10 g/cm <sup>3</sup> (23°C)
Vapour density (air=1):	N.A.
Solubility in water:	insoluble
Solubility in oil:	soluble
Viscosity:	2000-3000 mPa.s (23°C)

Auto-ignition temperature:	N.A.
Explosion limits(by volume):	N.A.
Decomposition temperature:	N.A.
Partition coefficient (n-octanol/water):	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.

#### 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

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth, alloys in powder or vapours) and powerful reducing agents.

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It may generate toxic gases on contact with oxidising mineral acids, and powerful oxidising agents.

It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.

#### 10.4. Conditions to avoid

Stable under normal conditions.

#### 10.5. Incompatible materials

None in particular.

#### 10.6. Hazardous decomposition products

None.

It releases carbon dioxide in contact with water

It polymerises on heating

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Route(s) of entry:

Ingestion: Yes

Inhalation: Yes

Contact: No

Toxicological information related to the product:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

Toxicological information of the mixture:

N.A.

Toxicological information of the main substances found in the mixture:

propylene carbonate - CAS: 108-32-7

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 32319 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 3000 mg/kg

diphenylmethane-4,4'-diisocyanate; - CAS: 101-68-8

a) acute toxicity:

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

Test: LD50 - Route: Skin - Species: Rabbit > 9400 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 490 mg/kg - Duration: 4h

Test: LC50 - Route: Inhalation - Species: Rat = 2.24 mg/l - Duration: 1h

Corrosive/Irritating Properties:

Skin:

The product can cause irritation by contact.

Eye:

The product can cause irritation by contact

Sensitizing Properties:

Frequent contact may cause sensitization.

Carcinogenic Effects:

May cause cancer

Mutagenic Effects:

No effects are known.

Teratogenic Effects:

No effects are known.

Additional Information:

Susceptibility to skin irritation and sensitization varies from person to person.

In a sensitized individual the allergic dermatitis may not appear until after several days or weeks of frequent and prolonged contact.

Therefore, even though the skin irritation potential is slight, skin contact should be avoided. Once sensitization has occurred, exposure of the skin to very small quantities of the material may cause

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erythema and edema.

For this reason, the contact with the skin should be avoided. Once sensitization has occurred, exposures to small amounts of material may cause erythema and edema locally.

Carcinogenic category 3

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

#### SECTION 12: Ecological information

##### 12.1. Toxicity

Not available data on the mixture

Aquatic toxicity: the preparation is not to be considered toxic to the aquatic environment based on components.

LC50>100mg/l - aquatic species (calculated data following 1999/45/EC Directive).

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

propylene carbonate - CAS: 108-32-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 5300 mg/l - Duration h: 96

##### 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

vPvB Substances: None - PBT Substances: None

##### 12.6. Other adverse effects

None

Not available data on the mixture

#### 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.

91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

Disposal of not hardened product (EC waste code) : 08 04 09

The suggested European waste code is just based on the composition of the product.

According to the specific process or application field a different waste code may be necessary.

#### SECTION 14: Transport information

##### 14.1. UN number

Not classified as dangerous in the meaning of transport regulations.



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UN Number:	==
14.2. UN proper shipping name	N.A.
14.3. Transport hazard class(es)	
Rail/Road(RID/ADR):	no dangerous good
ADR-Upper number:	NA
Air (ICAO/IATA):	no dangerous good
Sea (IMO/IMDG):	no dangerous good
	N.A.
14.4. Packing group	N.A.
14.5. Environmental hazards	
ADR Environmental Pollutant:	
Marine pollutant:	No
	N.A.
14.6. Special precautions for user	N.A.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	No

#### SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)  
Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Dir. 2006/8/EC  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP)  
Regulation (EU) n. 453/2010 (Annex I)  
Regulation (EU) n. 286/2011 (ATP 2 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:  
None  
REACH Regulation (1907/2006)

REACH Regulation (1907/2006) – All. XVII: N.A.  
REACH Regulation n° 1907/2006 (REACH) – Art. 59 (Substances in "Candidate List"): N.A.  
CLP Regulation n° 1272/2008 (CLP) and s.m.i.  
Directive n° 1999/45/CE (Dangerous Preparation) and s.m.i.  
Directive n° 67/548/CEE (Substances) and s.m.i.  
Legislative Decree no. 81 of the 9th of April 2008 Title XI "Dangerous substances - Chapter I - Protection against chemical agents"  
Directive 2000/39/CE and s.m.i. (Professional threshold limit)  
Legislative Decree no. 152 of the 3rd of April 2006 and subsequent modifications and additions. (Environmental regulations)  
Directive 105/2003/CE (Seveso III): N.A.  
ADR Agreement – IMDG Code – IATA Regulation  
VOC (2004/42/EC) : N.A. g/l

TSCA (USA) : ALL INGREDIENTS LISTED OR EXEMPTED  
DSL/NDL (CANADA) : ALL INGREDIENTS LISTED ON DSL OR EXEMPTED

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#### 15.2. Chemical safety assessment

No

#### SECTION 16: Other information

Text of phrases referred to under heading 3:

R20 Harmful by inhalation.

R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

R40 Limited evidence of a carcinogenic effect.

R42/43 May cause sensitization by inhalation and skin contact.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

H351 Suspected of causing cancer.

This safety data sheet has been completely updated in compliance to Regulation 453/2010/EU.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX'S - Dangerous properties of industrial materials

Istituto Superiore di Sanità - Inventario Nazionale Sostanze Chimiche

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.

This MSDS cancels and replaces any preceding release.

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

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

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ICAO:	Association" (IATA). 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.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
OEL:	European threshold limit value
VLE:	Threshold Limiting Value.
WGK:	German Water Hazard Class.
TSCA:	United States Toxic Substances Control Act Inventory
DSL:	DSL - Canadian Domestic Substances List
N.A.:	N.A.
N.D.:	