

# Safety Data Sheet

## BLACK SILICONE GASKET ML 200



Safety Data Sheet dated 26/9/2024, version 12

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

- 1.1. Product identifier  
Mixture identification:  
Trade name: BLACK SILICONE GASKET ML 200  
Trade code: 0099
- 1.2. Relevant identified uses of the substance or mixture and uses advised against  
Recommended use:  
Liquid seal  
Uses advised against:  
Strictly adhere to the recommended uses.
- 1.3. Details of the supplier of the safety data sheet  
Supplier:  
Arexons S.p.A.  
via Antica di Cassano, 23, 20063  
Cernusco sul Naviglio (MI), Italy  
Arexons S.p.A.  
Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306  
Competent person responsible for the safety data sheet:  
arexons@arexons.it
- 1.4. Emergency telephone number  
Arexons S.p.A.  
Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306  
In England and Wales: NHS 111 - dial 111  
In Scotland: NHS 24 - dial 111  
In Ireland: emergency number 112  
In South Africa: Poison Information Helpline 0861 555 777  
In Malta: emergency number 112

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture  
EC regulation criteria 1272/2008 (CLP):  
Warning, Aerosols 3, Pressurized container: may burst if heated.  
Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.  
Adverse physicochemical, human health and environmental effects:  
No other hazards
- 2.2. Label elements  
Hazard pictograms:  
None
- Warning
- Hazard statements:  
H229 Pressurized container: may burst if heated.  
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements:  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.  
P501 Dispose of contents/container in accordance with applicable regulations.

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Special Provisions:

None

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

None

2.3. Other hazards

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

Other Hazards:

No other hazards

### SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

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

stta	Name	Ident. Number	Classification
$\geq 1\%$ - $< 2\%$	Triacetato di metilsilantriile	CAS: 4253-34-3 EC: 224-221-9 REACH No.: 01-2119962266-32	⚠ 3.2/1B Skin Corr. 1B H314 ⚠ 3.1/4/Oral Acute Tox. 4 H302 EUH014
$\geq 1\%$ - $< 2\%$	Propyltriacetoxysilan	CAS: 17865-07-5 EC: 241-816-9 REACH No.: 01-2119966899-07	⚠ 3.2/1B Skin Corr. 1B H314
$\geq 0,05\%$ - $< 0,1\%$	Octamethylcyclotetrasiloxane	CAS: 556-67-2 EC: 209-136-7 REACH No.: 01-2119529238-36	⚠ 3.7/2 Repr. 2 H361f ⚠ 4.1/C1 Aquatic Chronic 1 H410 M=10. ⚠ 2.6/3 Flam. Liq. 3 H226

SVHC, PBT, vPvB, endocrine disruptor substances:

$\geq 0,05\%$  -  $< 0,1\%$  Octamethylcyclotetrasiloxane

REACH No.: 01-2119529238-36, CAS: 556-67-2, EC: 209-136-7

PBT, vPvB, SVHC

### SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

None

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

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Treatment:  
None

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### SECTION 5: Firefighting measures

- 5.1. Extinguishing media
  - Appropriate Extinguishing Media:
    - To carbon dioxide.
    - To dust.
    - Water spray.
    - Foam for alcohols
  - Not Recommended Extinguishing Media:
    - Do not use direct water jets.
- 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
  - Normal fire-fighting clothing, such as an open-circuit compressed air breathing apparatus (EN 137), flame-resistant suit (EN469), flame-resistant gloves (EN 659) and firefighter's boots (HO A29 or A30).

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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.
  - 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
  - For cleaning up:
    - Avoid flame and/or spark near leak and produced waste. Do not smoke. In case of large spills dike,
    - absorb and shovel up into suitable containers for disposal. Contain small spills with absorbent material.
    - Put dirty material in suitable container. Dispose of dirty material in accordance with local or national regulations.
- 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
  - Avoid contact with skin and eyes, inhalation of vapours and mists.
  - Don't use empty container before they have been cleaned.
  - Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
  - See also section 8 for recommended protective equipment.
  - Advice on general occupational hygiene:
    - Contaminated clothing should be changed before entering eating areas.
    - Do not eat or drink while working.
- 7.2. Conditions for safe storage, including any incompatibilities

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Only store in the original container.

Store at below 50 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

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

Keep away from food, drink and feed.

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

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

None in particular

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Octamethylcyclotetrasiloxane - CAS: 556-67-2

20101.04 - TWA: 120 mg/m<sup>3</sup>, 10 ppm

### DNEL Exposure Limit Values

Triacetato di metilsilantriile - CAS: 4253-34-3

Consumer: 1 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 1 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

Worker Professional: 14.5 mg/kg - Consumer: 7.2 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects

Worker Professional: 25 mg/m<sup>3</sup> - Consumer: 6.3 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Worker Professional: 31 mg/m<sup>3</sup> - Consumer: 5.1 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Short Term, local effects

Propyltriacetoxysilan - CAS: 17865-07-5

Consumer: 6.05 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 12.11 mg/kg - Consumer: 6.05 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects

Worker Professional: 85.39 mg/m<sup>3</sup> - Consumer: 21.06 mg/m<sup>3</sup> - Exposure: Human

Inhalation - Frequency: Long Term, systemic effects

### PNEC Exposure Limit Values

Triacetato di metilsilantriile - CAS: 4253-34-3

Target: Fresh Water - Value: 1 mg/l

Target: Marine water - Value: 0.1 mg/l

Target: 09 - Value: 10 mg/l

Target: Freshwater sediments - Value: 3.4 mg/kg

Target: Marine water sediments - Value: 0.34 mg/kg

Propyltriacetoxysilan - CAS: 17865-07-5

Target: Fresh Water - Value: 0.02441 mg/l

Target: Freshwater sediments - Value: 0.01457 mg/kg

Target: 09 - Value: 10.55 mg/l

Target: Marine water - Value: 0.002441 mg/l

Target: Freshwater sediments - Value: 0.001457 mg/kg

### 8.2. Exposure controls

#### Eye protection:

Eye glasses with side protection.

Compliant with EN 166

#### Protection for skin:

protective clothing

#### Protection for hands:

Nitrile.

Compliant with EN 374.

#### Respiratory protection:

Filter for organic vapours. Type A. (EN14387)

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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

Properties	Value	Method:	Notes:
Physical state:	Liquid	--	--
Colour:	Black	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	Insoluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1,03 g/cm <sup>3</sup>	Internal method	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

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- 9.2. Other information  
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 at normal ambient temperatures and when used as recommended.
- 10.3. Possibility of hazardous reactions  
None
- 10.4. Conditions to avoid  
Stable under normal conditions.
- 10.5. Incompatible materials  
None in particular.
- 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 product:  
BLACK SILICONE GASKET ML 200
- a) acute toxicity  
Not classified  
Based on available data, the classification criteria are not met
  - b) skin corrosion/irritation  
Not classified  
Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Notes: Prodotto testato secondo 92/69/EC - Based on available data, the classification criteria are not met
  - c) serious eye damage/irritation  
Not classified  
Test: Eye Irritant - Route: EYE - Species: Rabbit Negative - Notes: Prodotto testato secondo 92/69/EC - Based on available data, the classification criteria are not met
  - 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:  
Triacetato di metilsilantriile - CAS: 4253-34-3
- a) acute toxicity:

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Test: Respiratory Tract Corrosive - Route: Oral - Species: Rat 1600 mg/kg  
Octamethylcyclotetrasiloxane - CAS: 556-67-2

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 36 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat > 4800 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2400 mg/kg

11.2. Information on other hazards

Endocrine disrupting properties:

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

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## SECTION 12: Ecological information

12.1. Toxicity

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

Triacetato di metilsilantriile - CAS: 4253-34-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae > 500 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish > 500 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 500 mg/l - Duration h: 48

Propyltriacetoxysilan - CAS: 17865-07-5

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae 24 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish 108.89 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 89.59 mg/l - Duration h: 48

Octamethylcyclotetrasiloxane - CAS: 556-67-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish > 500 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 25.2 mg/l - Duration h: 24

12.2. Persistence and degradability

None

N.A.

12.3. Bioaccumulative potential

Octamethylcyclotetrasiloxane - CAS: 556-67-2

Test: BCF - Bioconcentration factor 12400

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

PBT Substances:

$\geq 0,05\%$  -  $< 0,1\%$  Octamethylcyclotetrasiloxane - CAS: 556-67-2

vPvB Substances:

$\geq 0,05\%$  -  $< 0,1\%$  Octamethylcyclotetrasiloxane - CAS: 556-67-2

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

None

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## SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Additional disposal information:

CER 08 04 10 waste adhesives and sealants other than those indicated in 08 04 09

16 05 04\* gases in pressure containers (including halons) containing certain dangerous substances.

"Use in accordance with good working practices, avoiding dispersal in the environment.

Do not discharge into drains, ground water or water courses. Comply with current legislation on the protection of water and soil from pollution (Legislative Decree No. 152 of 3/4/2006).



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Dispose of used product and containers by handing them over to authorised companies, in accordance with the provisions of

Legislative Decree No. 152/2006 (Consolidated Environmental Act, which replaced the Ronchi Decree) as amended.

The used product is to be considered special waste to be classified in accordance with Directive No. 2008/98/EC on waste and related matters. Recover if possible. Send to authorised disposal plants or incineration under controlled conditions (152/2006 art. 184).

Act in accordance with the local and national laws in force.

Contaminated packaging must be emptied as far as possible. After cleaning, send to an authorised centre for recycling or disposal."

#### SECTION 14: Transport information



- 14.1. UN number or ID number  
ADR-UN Number: 1950  
IATA-UN Number: 1950  
IMDG-UN Number: 1950
- 14.2. UN proper shipping name  
ADR-Shipping Name: AEROSOLS  
IATA-Shipping Name: AEROSOLS  
IMDG-Shipping Name: AEROSOLS
- 14.3. Transport hazard class(es)  
ADR-Class: 2  
ADR - Hazard identification number: -  
IATA-Class: 2  
IATA-Label: -  
IMDG-Class: 2  
Sea (IMO): 2
- 14.4. Packing group  
ADR-Packing Group: -  
IATA-Packing group: -  
IMDG-Packing group: -
- 14.5. Environmental hazards  
ADR-Environmental Pollutant: No  
IMDG-Marine pollutant: No  
IMDG-EmS: F-D,  
S-U
- 14.6. Special precautions for user  
ADR-Subsidiary hazards: See SP63  
ADR-S.P.: 190 327 344 625  
ADR-Transport category (Tunnel restriction code): 3 (E)  
IATA-Passenger Aircraft: -  
IATA-Subsidiary hazards: See SP63  
IATA-Cargo Aircraft: -  
IATA-S.P.: -  
IATA-ERG: -  
IMDG-Subsidiary hazards: See SP63  
IMDG-Stowage and handling: SW1 SW22  
IMDG-Segregation: SG69
- 14.7. Maritime transport in bulk according to IMO instruments



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N.A.  
Limited Quantity: 1 L  
Exempted Quantity: E0

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#### SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) n. 2020/878  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)  
Regulation (EU) n. 2020/1182 (ATP 15 CLP)  
Regulation (EU) n. 2021/643 (ATP 16 CLP)  
Regulation (EU) n. 2021/849 (ATP 17 CLP)  
Regulation (EU) n. 2022/692 (ATP 18 CLP)

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

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

Restriction 40

Restriction 70

Volatile Organic compounds - VOCs = 0.09 %

Volatile Organic compounds - VOCs = 0.90 g/Kg

Volatile Organic compounds - VOCs = 0.93 g/l

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)

SVHC Substances:

Substances in candidate list (Art. 59 Reg. 1907/2006, REACH):

Octamethylcyclotetrasiloxane

PBT, vPvB

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.

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

None

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#### SECTION 16: Other information

Text of phrases referred to under heading 3:

- H361f Suspected of damaging the unborn child.
- H410 Very toxic to aquatic life with long lasting effects.
- H226 Flammable liquid and vapour.
- H314 Causes severe skin burns and eye damage.
- H302 Harmful if swallowed.
- EUH014 Reacts violently with water.

Hazard class and hazard category	Code	Description
Aerosols 3	2.3/3	Aerosol, Category 3
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Repr. 2	3.7/2	Reproductive toxicity, Category 2
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

- SECTION 5: Firefighting measures
- SECTION 6: Accidental release measures
- SECTION 7: Handling and storage
- SECTION 9: Physical and chemical properties
- SECTION 13: Disposal considerations

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
Aerosols 3, H229	On basis of test data
Aquatic Chronic 3, H412	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.

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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.
NA:	Not applicable
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.