

# Safety Data Sheet

## SYSTEM PM215 PROTETTIVO MOTORE E METALLI - ENGINE AND METAL PROTECTIVE SPRAY



### Safety Data Sheet dated 6/7/2019, version 5

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

##### 1.1. Product identifier

Mixture identification:

Trade name:

SYSTEM PM215 PROTETTIVO MOTORE E METALLI -  
ENGINE AND METAL PROTECTIVE SPRAY

Trade code:

4215

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

##### 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](mailto:arexons@arexons.it)

##### 1.4. Emergency telephone number

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Centro Antiveleni di Pavia IRCCS- Fondazione Maugeri tel. +39 (0)382 24444 (h24; it, en)

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

In Ireland: Beaumont Hospital - National Poisons Information Centre 01 809 2166 (7days, 8:00 - 22:00)

In South Africa: Poison Information Helpline 0861 555 777

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#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

- ◆ Danger, Aerosols 1, Extremely flammable aerosol. Pressurized container: may burst if heated.
- ◆ Warning, Eye Irrit. 2, Causes serious eye irritation.
- ◆ Warning, STOT SE 3, May cause drowsiness or dizziness.

Adverse physicochemical, human health and environmental effects:

No other hazards

##### 2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H222+H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

# Safety Data Sheet

## SYSTEM PM215 PROTETTIVO MOTORE E METALLI - ENGINE AND METAL PROTECTIVE SPRAY



P103 Read label before use.

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

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P271 Use only outdoors or in a well-ventilated area.

P405 Store locked up.

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.

### Special Provisions:

None

### Contains

Butanone

n-butyl acetate

### 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

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## 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:

>= 40% - < 50% Hydrocarbons, C3-4

REACH No.: 01-2119486557-22, Index number: 649-199-00-1, CAS: 68476-40-4, EC: 270-681-9

◇ 2.2/1 Flam. Gas 1 H220

◇ 2.5/L Press. Gas (Liq.) H280

DECLK (CLP)\*

>= 30% - < 40% Butanone

REACH No.: 01-2119457290-43, Index number: 606-002-00-3, CAS: 78-93-3, EC: 201-159-0

◇ 2.6/2 Flam. Liq. 2 H225

◇ 3.3/2 Eye Irrit. 2 H319

◇ 3.8/3 STOT SE 3 H336

EUH066

>= 15% - < 20% 4-methylpentan-2-one

REACH No.: 01-2119473980-30, Index number: 606-004-00-4, CAS: 108-10-1, EC: 203-550-1

◇ 2.6/2 Flam. Liq. 2 H225

◇ 3.1/4/Inhal Acute Tox. 4 H332

◇ 3.3/2 Eye Irrit. 2 H319

◇ 3.8/3 STOT SE 3 H335

EUH066

>= 2% - < 3% n-butyl acetate

REACH No.: 01-2119485493-29, Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1

◇ 2.6/3 Flam. Liq. 3 H226

◇ 3.8/3 STOT SE 3 H336

EUH066



## Safety Data Sheet

### SYSTEM PM215 PROTETTIVO MOTORE E METALLI - ENGINE AND METAL PROTECTIVE SPRAY

\*DECLK (CLP): Substance classified in accordance with Note K, Annex VI of EC Regulation (EC) 1272/2008. The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w 1,3-butadiene (Einecs No 203-450-8). If the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 should apply. This note applies only to certain complex oil-derived substances in Part 3.

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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.

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.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

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#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

Appropriate Extinguishing Media:

Not Recommended Extinguishing Media:

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

##### 5.3. Advice for firefighters

Use suitable breathing apparatus .

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

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

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#### SECTION 6: Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

##### 6.2. Environmental precautions

## Safety Data Sheet

# SYSTEM PM215 PROTETTIVO MOTORE E METALLI - ENGINE AND METAL PROTECTIVE SPRAY



Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.  
Retain contaminated washing water and dispose it.

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

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

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

Wash with plenty of water.

### 6.4. Reference to other sections

See also section 8 and 13

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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

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:

Cool and adequately ventilated.

### 7.3. Specific end use(s)

None in particular

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Hydrocarbons, C3-4 - CAS: 68476-40-4

MAK - TWA: 2400 mg/m<sup>3</sup>, 1000 ppm

TLV TWA - 1900 mg/m<sup>3</sup>, 800 ppm

Butanone - CAS: 78-93-3

20101.13 - TWA(8h): 600 mg/m<sup>3</sup>, 200 ppm - STEL(): 900 mg/m<sup>3</sup>, 300 ppm

20101.06 - TWA(8h): 600 mg/m<sup>3</sup>, 200 ppm - STEL(): 900 mg/m<sup>3</sup>, 300 ppm

EU - TWA(8h): 600 mg/m<sup>3</sup>, 200 ppm - STEL: 900 mg/m<sup>3</sup>, 300 ppm

ACGIH - TWA(8h): 200 ppm - STEL: 300 ppm - Notes: BEI - URT irr, CNS and PNS impair

4-methylpentan-2-one - CAS: 108-10-1

20101.11 - TWA: 208 mg/m<sup>3</sup>, 50 ppm

20101.12 - TWA: 83 mg/m<sup>3</sup>, 20 ppm

EU - TWA(8h): 83 mg/m<sup>3</sup>, 20 ppm - STEL: 208 mg/m<sup>3</sup>, 50 ppm

ACGIH - TWA(8h): 20 ppm - STEL: 75 ppm - Notes: A3, BEI - URT irr, dizziness, headache

n-butyl acetate - CAS: 123-86-4

ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr

### DNEL Exposure Limit Values

4-methylpentan-2-one - CAS: 108-10-1

Worker Professional: 83 mg/m<sup>3</sup> - Consumer: 14.7 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Long Term (repeated)

Worker Professional: 208 mg/m<sup>3</sup> - Consumer: 115.2 mg/m<sup>3</sup> - Exposure: Human

## Safety Data Sheet

# SYSTEM PM215 PROTETTIVO MOTORE E METALLI - ENGINE AND METAL PROTECTIVE SPRAY



Inhalation - Frequency: Short Term (acute)

Worker Professional: 11.8 mg/kg - Consumer: 4.2 mg/kg - Exposure: Human Dermal - Frequency: Long Term (repeated)

### PNEC Exposure Limit Values

N.A.

### 8.2. Exposure controls

#### Eye protection:

Use close fitting safety goggles, don't use eye lens.

#### Protection for skin:

No special precaution must be adopted for normal use.

#### Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

#### Respiratory protection:

Use adequate protective respiratory equipment.

#### 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:
Appearance and colour:	Aerosol	--	--
Odour:	Characteristic	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash point:	<-40°C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	0,845 g/cm3	--	--
Solubility in water:	Insoluble	--	--

## Safety Data Sheet

### SYSTEM PM215 PROTETTIVO MOTORE E METALLI - ENGINE AND METAL PROTECTIVE SPRAY



Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	N.A.	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

#### 9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

NA=not applicable

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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

None

##### 10.4. Conditions to avoid

Stable under normal conditions.

##### 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

##### 10.6. Hazardous decomposition products

None.

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#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

Toxicological information of the product:

SYSTEM PM215 ENGINE PROTECTIVE FILM

###### a) acute toxicity

Based on available data, the classification criteria are not met

###### b) skin corrosion/irritation

Based on available data, the classification criteria are not met

## Safety Data Sheet

### SYSTEM PM215 PROTETTIVO MOTORE E METALLI - ENGINE AND METAL PROTECTIVE SPRAY



c) serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319

d) respiratory or skin sensitisation

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Based on available data, the classification criteria are not met

f) carcinogenicity

Based on available data, the classification criteria are not met

g) reproductive toxicity

Based on available data, the classification criteria are not met

h) STOT-single exposure

The product is classified: STOT SE 3 H336

i) STOT-repeated exposure

Based on available data, the classification criteria are not met

j) aspiration hazard

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Butanone - CAS: 78-93-3

a) acute toxicity:

Test: Respiratory Tract Corrosive - Route: Oral - Species: Rat 2737 mg/kg

Test: Respiratory Tract Corrosive - Route: Inhalation - Species: Rat 23.5 mg/l - Duration: 8h

b) skin corrosion/irritation:

Test: Eye Corrosive - Route: Skin - Species: Rabbit 6840 mg/kg

4-methylpentan-2-one - CAS: 108-10-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 2080 mg/kg - Notes: OCSE 401

Test: LD50 - Route: Skin - Species: Rabbit > 20 ml/kg - Notes: OCSE 402

Test: LC50 - Route: Inhalation - Species: Rat 2000 Ppm - Notes: OCSE 43

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin Positive

c) serious eye damage/irritation:

Test: Eye Irritant - Route: EYE Positive

d) respiratory or skin sensitisation:

Negative

e) germ cell mutagenicity:

Test: Mutagenesis Negative

f) carcinogenicity:

Test: Carcinogeneticy Negative

i) STOT-repeated exposure:

Negative

## SECTION 12: Ecological information

### 12.1. Toxicity

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

Hydrocarbons, C3-4 - CAS: 68476-40-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Daphnia = 14.22 mg/l - Duration h: 48

4-methylpentan-2-one - CAS: 108-10-1

## Safety Data Sheet

# SYSTEM PM215 PROTETTIVO MOTORE E METALLI - ENGINE AND METAL PROTECTIVE SPRAY



### a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 179 mg/l - Duration h: 96 - Notes: OCSE 203

Endpoint: EC50 - Species: Daphnia > 200 mg/l - Duration h: 48

### b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia 30 mg/l - Duration h: 504

Endpoint: NOEC - Species: Algae > 146 mg/l - Duration h: 168

### 12.2. Persistence and degradability

None

4-methylpentan-2-one - CAS: 108-10-1

Biodegradability: Readily biodegradable

### 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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

## SECTION 14: Transport information



### 14.1. UN number

ADR-UN Number: 1950

IATA-UN Number: 1950

IMDG-UN Number: 1950

### 14.2. UN proper shipping name

ADR-Shipping Name: AEROSOLS, flammable

ADR-Shipping Name: AEROSOLS

IATA-Shipping Name: AEROSOLS, flammable

IMDG-Shipping Name: AEROSOLS, flammable

### 14.3. Transport hazard class(es)

ADR-Class: 2

ADR - Hazard identification number: -

IATA-Class: 2

IATA-Label: 2.1

IMDG-Class: 2

Sea (IMO): 2 UN 1950

### 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

### 14.6. Special precautions for user

## Safety Data Sheet

# SYSTEM PM215 PROTETTIVO MOTORE E METALLI - ENGINE AND METAL PROTECTIVE SPRAY



ADR-Subsidiary hazards:	See SP63
ADR-S.P.:	190 327 344 625
ADR-Transport category (Tunnel restriction code):	2 (D)
IATA-Passenger Aircraft:	203
IATA-Subsidiary hazards:	See SP63
IATA-Cargo Aircraft:	203
IATA-S.P.:	A145 A167 A802
IATA-ERG:	10L
IMDG-EmS:	F-D, S-U
IMDG-Subsidiary hazards:	See SP63
IMDG-Stowage and handling:	SW1 SW22
IMDG-Segregation:	SG69

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No

Limited Quantity: 1 L

Exempted Quantity: E0

## SECTION 15: Regulatory information

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

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

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

Regulation (EC) n. 1907/2006 (REACH)

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

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

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

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

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

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

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

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

No restriction.

Volatile Organic compounds - VOCs = 87.09 %

Volatile Organic compounds - VOCs = 870.89 g/Kg

Volatile Organic compounds - VOCs = 735.90 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)

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

Seveso III category according to Annex 1, part 1

Product belongs to category: P3a

15.2. Chemical safety assessment

# Safety Data Sheet

## SYSTEM PM215 PROTETTIVO MOTORE E METALLI - ENGINE AND METAL PROTECTIVE SPRAY



No Chemical Safety Assessment has been carried out for the mixture.  
Substances for which a Chemical Safety Assessment has been carried out:  
None

### SECTION 16: Other information

Text of phrases referred to under heading 3:

- H220 Extremely flammable gas.
- H280 Contains gas under pressure; may explode if heated.
- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H226 Flammable liquid and vapour.

Hazard class and hazard category	Code	Description
Flam. Gas 1	2.2/1	Flammable gas, Category 1
Aerosols 1	2.3/1	Aerosol, Category 1
Press. Gas (Liq.)	2.5/L	Gases under pressure (Liquefied gas)
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3

Paragraphs modified from the previous revision:

SECTION 7: Handling and storage  
SECTION 14: Transport information

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 1, H222+H229	On basis of test data
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method

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

## Safety Data Sheet

### SYSTEM PM215 PROTETTIVO MOTORE E METALLI - ENGINE AND METAL PROTECTIVE SPRAY



Main bibliographic sources:

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

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
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.