

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

P138SA - P138SA

Master item code: P 138SA

Safety Data Sheet date: 29/12/2023, version 1

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

1.1. Product identifier

Trade name: P138SA
SDS code: P138SA
UFI : GRP6-73QX-9008-RQCW

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

Recommended use:
Penetrant testing

1.3. Details of the supplier of the safety data sheet

Manufacturers:

BABBCO
15, rue des Frères Lumière Z.I. des EBISOIRES 78370 PLAISIR (France)
Tel: +33 (0)1.30.80.81.82
www.babbco.fr

Distributors:

BabbCo-Socomore NDT Division
BABBCO
SHERWIN-BABBCO
Tel: +33 (0)1.30.80.81.82
www.babbco.fr

Competent person responsible for the safety data sheet:

e-mail: regulatoryservice@babbco.fr

1.4. Emergency telephone number

France : ORFILA (INRS) +33 (0)1 45 42 59 59
International : CHEMTEL +1-813-248-0585.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)



Danger, Eye Dam. 1, Causes serious eye damage.



Warning, Skin Sens. 1, May cause an allergic skin reaction.



Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

P138SA - P138SA

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

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 POISON CENTER/doctor/...

P331 Do NOT induce vomiting.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

Special Provisions:

None

Contains

Hydrocarbures, C13-C16, n-alkanes, isoalkanes, cycliques, < 0.03% aromatiques

ALCOHOLC9-C11ISOC10RICHETHOXYLATED

Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 oC to 290 oC (330 oF to 554 oF).]
azodyesimilartoCIsolventred19

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 >= 0.1%






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:

Qty	Name	Ident. Number	Classification
>= 70% - < 80%	Hydrocarbures, C13-C16, n-alkanes, isoalkanes, cycliques, < 0.03% aromatiques	EC: 934-954-2 REACH No.: 01-21198265 92-36	 3.10/1 Asp. Tox. 1 H304
>= 3% - < 5%	ALCOHOLC9-C11ISO C10RICHETHOXYLAT ED	CAS: 78330-20-8	 3.3/1 Eye Dam. 1 H318
>= 3% - < 5%	ISOTRIDECANOL, ETHOXYLATED	CAS: 69011-36-5 EC: 500-241-6 REACH No.: 01-21199763 62-32	 3.1/4/Oral Acute Tox. 4 H302  3.3/1 Eye Dam. 1 H318 Specific Concentration Limits: C >= 10%: Eye Dam. 1 H318 1% <= C < 10%: Eye Irrit. 2 H319
>= 1% - < 3%	Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified; [A complex combination	Index number: 649-424-00-3 CAS: 64742-94-5 EC: 265-198-5	 3.10/1 Asp. Tox. 1 H304

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

P138SA - P138SA

	of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).]		
>= 1% - < 3%	azodyesimilartoCIsolve ntred19	CAS: 56358-09-9 EC: 260-124-8	 3.2/2 Skin Irrit. 2 H315  3.4.2/1B Skin Sens. 1B H317  3.9/2 STOT RE 2 H373
>= 0.001% - < 0.1%	naphthalene	Index number: 601-052-00-2 CAS: 91-20-3 EC: 202-049-5	 3.6/2 Carc. 2 H351  4.1/A1 Aquatic Acute 1 H400  4.1/C1 Aquatic Chronic 1 H410  3.1/4/Oral Acute Tox. 4 H302
>= 0.001% - < 0.1%	1,4-dioxane	Index number: 603-024-00-5 CAS: 123-91-1 EC: 204-661-8	 2.6/2 Flam. Liq. 2 H225  3.6/1B Carc. 1B H350  3.8/3 STOT SE 3 H335  3.3/2 Eye Irrit. 2 H319 EUH066 EUH019

SVHC, PBT, vPvB, endocrine disruptor substances:

>= 0.001% - < 0.1% 1,4-dioxane

Index number: 603-024-00-5, CAS: 123-91-1, EC: 204-661-8

SVHC

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. OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

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 induce vomiting.

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

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

P138SA - P138SA

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:

No particular treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Foam.

Multipurpose powders class ABC

Water haze

Extinguishing media which must not be used for safety reasons:

Spray water

5.2. Special hazards arising from the substance or mixture

Carbon monoxide and carbon dioxide

5.3. Advice for firefighters

Use Self-Contained Breathing Apparatus (SCBA) with chemical protection suit.

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.

6.3. Methods and material for containment and cleaning up

For containment:

Ensure adequate ventilation

For cleaning up:

Ensure adequate ventilation

Absorb spillage as quickly as possible using inert solids such as clay or diatomaceous earth. clay or diatomaceous earth. Store away from other materials. Wash soiled area with water

Dispose contaminated material as waste according to item 13.

Use neutralising agent

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.

Don't use empty container before they have been cleaned.

Before making transfer operations, ensure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Wash hands after use

Contaminated clothing should be changed before entering eating areas.

Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

P138SA - P138SA

7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

Hydrocarbures, C13-C16, n-alcanes, isoalcanes, cycliques, < 0.03% aromatiques
OEL short - 10mg/m³
naphthalene - CAS: 91-20-3
- OEL Type: National - TWA(8h): 50 mg/m³, 10 ppm - Notes: INRS, France
- OEL Type: EU - TWA(8h): 50 mg/m³, 10 ppm
- OEL Type: ACGIH - TWA(8h): 10 ppm - Notes: Skin, A3 - URT irr, cataracts, hemolytic anemia
- OEL Type: National - TWA: 50 mg/m³, 10 ppm - Notes: Ireland OELs
1,4-dioxane - CAS: 123-91-1
- OEL Type: EU - TWA(8h): 73 mg/m³, 20 ppm
- OEL Type: ACGIH - TWA(8h): 20 ppm - Notes: Skin, A3 - Liver dam
- OEL Type: National - TWA: 35 mg/m³, 10 ppm - STEL: 140 mg/m³, 40 ppm

DNEL Exposure Limit Values

N.A.

PNEC Exposure Limit Values

N.A.

Biological Exposure Index

N.A.

8.2. Exposure controls

See below, example of PPE to use.

Eye protection:

Dust protection eye glasses.

Protection for skin:

Chemical protection clothing.

Protection for hands:

NR (natural rubber, natural latex).

Respiratory protection:

Mask with filter "A" , brown colour

Mask with filter "P", white colour

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

Other conditions affecting workers exposure:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Red	--	--
Odour:	N.A.	--	--
Melting point/freezing	N.A.	--	--

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

P138SA - P138SA

point:			
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point (°C):	>100°C	ASTM D93	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	<= 14 mm ² /sec (40 °C)	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	0.835 - 0.855 g/cm ³	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

No other relevant information

Volatile Organic compounds - VOCs = 1.19% %

N.A. = not available

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

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological information of the product:

P138SA

Acute toxicity

Not classified

Based on available data, the classification criteria are not met

ATEmix - Oral 16667 mg/kg bw

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

P138SA - P138SA

Skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

Respiratory or skin sensitisation

The product is classified: Skin Sens. 1 H317

Germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

Carcinogenicity

Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

Aspiration hazard

The product is classified: Asp. Tox. 1 H304

Toxicological information of the main substances found in the product:

Hydrocarbures, C13-C16, n-alcane, isoalcanes, cycliques, < 0.03% aromatiques

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 5266 mg/m3 - Duration: 4h

ISOTRIDECANOL, ETHOXYLATED - CAS: 69011-36-5

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 500 mg/kg

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

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

naphthalene - CAS: 91-20-3

Acute toxicity:

Test: LD50 - Route: Skin - Species: Rat > 2500 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 0.4 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Mouse = 533 mg/kg

1,4-dioxane - CAS: 123-91-1

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 30.000 mg/kg

STOT-repeated exposure:

Route: Oral - Species: Rat > 2 %

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

Other toxicological information:

None.

SECTION 12: Ecological information

12.1. Toxicity

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

P138SA - P138SA

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

P138SA

Not classified for environmental hazards

Based on available data, the classification criteria are not met

Hydrocarbures, C13-C16, n-alcanes, isoalcanes, cycliques, < 0.03% aromatiques

a) Aquatic acute toxicity:

Endpoint: EL50

- Species: *Skeletonema costatum* > 10000 mg/l - Duration h: 72

Endpoint: LL50

- Species: *Daphnia* > 3193 mg/l - Duration h: 48

Endpoint: LL50

- Species: Turbot (*Scophthalmus maximus*) > 1028 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: DSEO-R (NOELR) - Species: *Daphnia* > 1000 mg/l - Duration h: 504

Endpoint: DSEO-R (NOELR) - Species: Fish > 1000 mg/l - Duration h: 672

ISOTRIDECANOL, ETHOXYLATED - CAS: 69011-36-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1 mg/l - Notes: *Cyprinus carpio*

Endpoint: EC50 - Species: *Daphnia* > 1 mg/l

Endpoint: EC50 - Species: Algae > 1 mg/l

naphthalene - CAS: 91-20-3

a) Aquatic acute toxicity:

Endpoint: EL50

- Species: *Daphnia* > 3 mg/l - Duration h: 48

Endpoint: LL50

- Species: Fish > 2 mg/l - Duration h: 96 - Notes: *Oncorhynchus mykiss*

Endpoint: EL50

- Species: Algae = 11 mg/l - Duration h: 72 - Notes: *Pseudokirchneriella subcapitata*

Endpoint: DSEO-R (NOELR) - Species: Algae = 2.5 mg/l - Duration h: 72 - Notes:

Pseudokirchneriella subcapitata

12.2. Persistence and degradability

Hydrocarbures, C13-C16, n-alcanes, isoalcanes, cycliques, < 0.03% aromatiques

Biodegradability: Readily biodegradable - Duration: 28 days - %: 74 - Notes: OECD 306

naphthalene - CAS: 91-20-3

Biodegradability: Biodegradability rate - Duration: 28 days - %: 50

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. Endocrine disrupting properties

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

12.7. Other adverse effects

No harmful effects expected.

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.

Codes of wastes (Décision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):

07 07 04* other organic solvents, washing liquids and mother liquors

Additional disposal information:

Disposal should be in accordance with applicable regional, national and local laws and regulations. Please consult Technical Data Sheet for details.

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

P138SA - P138SA

SECTION 14: Transport information

14.1. UN number or ID number

14.2. UN proper shipping name

ADR-Shipping Name: NA

IATA-Shipping Name: NA

IMDG-Shipping Name: NA

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Maritime transport in bulk according to IMO instruments

N.A.

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. 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 28

Restriction 40

Restriction 75

Listed or in compliance with the following international inventories:

Labelling of detergents (EC Regulations 648/2004 and 907/2006):

N.A.

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

P138SA - P138SA

Labelling of biocides (Regulations 1896/2000, 1687/2002, 2032/2003, 1048/2005, 1849/2006, 1451/2007 and Directive 98/8/EC):

N.A.

N.A.

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

1999/13/EC (VOC directive)

Dir. 2004/42/EC (VOC directive)

SVHC Substances:

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

1,4-dioxane

Carcinogenic, Equivalent level of concern having probable serious effects to human health, Equivalent level of concern having probable serious effects to environment

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

SECTION 16: Other information

N.A.: Not Applicable or Not Available

Full text of phrases referred to in Section 3:

H304 May be fatal if swallowed and enters airways.

H318 Causes serious eye damage.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H225 Highly flammable liquid and vapour.

H350 May cause cancer.

H335 May cause respiratory irritation.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH019 May form explosive peroxides.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

P138SA - P138SA

Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
Carc. 1B	3.6/1B	Carcinogenicity, Category 1B
Carc. 2	3.6/2	Carcinogenicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1

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
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Asp. Tox. 1, H304	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
CCNL - Appendix 1
Insert further consulted bibliography

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The information is considered correct, but it is not exhaustive and it shall be used only as a guide which is based on the current knowledge of the substance or mixture and it is applicable to the safety precautions appropriate for the product.

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.

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))**P138SA - P138SA**

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.
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.
STOT SE:	May cause drowsiness or dizziness
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.