

Safety Data Sheet ZINCO 98% HEAVY



Safety Data Sheet dated 9/7/2024, version 1

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

1.1. Product identifier

Mixture identification:

Trade name: ZINCO 98% HEAVY

Trade code: 71.0007/BIS

UFI: X8CE-N19X-F20K-CXA9

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

Recommended use:

Spray painting decorative household, industrial and professional

1.3. Details of the supplier of the safety data sheet

Company:

ARECO ITALIA SPA Via Alfonso Capecelatro, 55 20148 Milano

Centro Antiveleni - Ospedale di Niguarda - Milano - Tel. 0039 02 66101029

Competent person responsible for the safety data sheet:

commerciale@arecoitalia.it


1.4. Emergency telephone number


Centro Antiveleni - Ospedale di Niguarda - Milano - Tel. 0039 02 66101029


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, Skin Irrit. 2, Causes skin irritation.

 Warning, Eye Irrit. 2, Causes serious eye irritation.

 Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

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Hazard pictograms:



Danger

Hazard statements:

H222, H229 Extremely flammable aerosol. Pressurized container: may burst if heated.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H411 Toxic 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.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P273 Avoid release to the environment.
 P391 Collect spillage.
 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

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

Restricted to professional users.

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
$\geq 20\%$ - $< 25\%$	dimethyl carbonate	Index number: 607-013-00-6 CAS: 616-38-6 EC: 210-478-4 REACH No.: 01-21195483 99-23	 2.6/2 Flam. Liq. 2 H225
$\geq 15\%$ - $< 20\%$	propane	Index number: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 REACH No.: 01-21194869	 2.2/1 Flam. Gas 1 H220  2.5/L Press Gas (Liq.) H280









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		44-21	
>= 10% - < 12.5%	xylene	Index number: CAS: EC: REACH No.: 601-022-00-9 1330-20-7 215-535-7 01-21194882 16-32	 2.6/3 Flam. Liq. 3 H226  3.1/4/Dermal Acute Tox. 4 H312  3.1/4/Inhal Acute Tox. 4 H332  3.2/2 Skin Irrit. 2 H315
>= 7% - < 10%	acetone; propan-2-one; propanone	Index number: CAS: EC: REACH No.: 606-001-00-8 67-64-1 200-662-2 01-21194713 30-49	 2.6/2 Flam. Liq. 2 H225  3.3/2 Eye Irrit. 2 H319  3.8/3 STOT SE 3 H336 EUH066
>= 7% - < 10%	butane	Index number: CAS: EC: REACH No.: 601-004-00-0 106-97-8 203-448-7 01-21194746 91-32	 2.2/1 Flam. Gas 1 H220  2.5/L Press Gas (Liq.) H280
>= 5% - < 7%	and isobutane	Index number: CAS: EC: REACH No.: 601-004-00-0 75-28-5 200-857-2 01-21194853 95-27	 2.2/1 Flam. Gas 1 H220  2.5/L Press Gas (Liq.) H280
>= 2.5% - < 5%	zinc powder - zinc dust (stabilized)	Index number: CAS: EC: REACH No.: 030-002-00-7 7440-66-6 231-175-3 01-21194671 74-37	 4.1/A1 Aquatic Acute 1 H400  4.1/C1 Aquatic Chronic 1 H410
>= 1% - < 2.5%	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -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 C8 through C10 and boiling in the range of approximately 135 oC to 210 oC (275oF to 410oF).]	Index number: CAS: EC: REACH No.: 649-356-00-4 64742-95-6 265-199-0 01-21194558 51-35	 2.6/3 Flam. Liq. 3 H226  3.8/3 STOT SE 3 H335  3.10/1 Asp. Tox. 1 H304  3.8/3 STOT SE 3 H336  4.1/C2 Aquatic Chronic 2 H411 EUH066

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>= 0.5% - < 1%	n-butyl acetate	Index number: CAS: EC: REACH No.:	607-025-00-1 123-86-4 204-658-1 01-21194854 93-29	 2.6/3 Flam. Liq. 3 H226  3.8/3 STOT SE 3 H336 EUH066
>= 0.25% - < 0.5%	butan-1-ol; n-butanol	Index number: CAS: EC:	603-004-00-6 71-36-3 200-751-6	 2.6/3 Flam. Liq. 3 H226  3.8/3 STOT SE 3 H335  3.2/2 Skin Irrit. 2 H315  3.3/1 Eye Dam. 1 H318  3.8/3 STOT SE 3 H336  3.1/4/Oral Acute Tox. 4 H302

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

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- 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.
Remove all sources of ignition.
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
Wash with plenty of water.
- 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, 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 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
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
propane - CAS: 74-98-6
ACGIH - Notes: (D, EX) - Asphyxia
VLE short - 1000 ppm
xylene - CAS: 1330-20-7
EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Skin

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ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - URT and eye irr; hematologic eff; CNS impair

acetone; propan-2-one; propanone - CAS: 67-64-1
 EU - TWA(8h): 1210 mg/m³, 500 ppm
 ACGIH - TWA(8h): 250 ppm - STEL: 500 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

butane - CAS: 106-97-8
 ACGIH - STEL: 1000 ppm - Notes: (EX) - CNS impair

and isobutane - CAS: 75-28-5
 ACGIH - STEL: 1000 ppm - Notes: (EX) - CNS impair

VLE short - 1000 ppm

n-butyl acetate - CAS: 123-86-4
 ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr
 EU - TWA(8h): 241 mg/m³, 50 ppm - STEL: 723 mg/m³, 150 ppm

butan-1-ol; n-butanol - CAS: 71-36-3
 ACGIH - TWA(8h): 20 ppm - Notes: Eye and URT irr

DNEL Exposure Limit Values
 N.A.

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:
 Not needed for normal use.

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:	N.A.	--	--
Odour:	Characteristic of solvent	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion	N.A.	--	--

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limit:			
Flash point:	Inf. 0 ° C	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	N0	--	--
Solubility in oil:	SI	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	a 20°C - 4,0 bar a 50°C - 8,0 bar	--	--
Density and/or relative density:	0,75 - 0,80 g/ml	--	--
Relative vapour density:	> of air.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Explosive properties:	N.A.	--	--
Oxidizing 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
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.

SECTION 11: Toxicological information

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Toxicological information of the product:
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 - a) acute toxicity
Not classified
Based on available data, the classification criteria are not met
 - b) skin corrosion/irritation
The product is classified: Skin Irrit. 2 H315
 - c) serious eye damage/irritation

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- The product is classified: Eye Irrit. 2 H319
- 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:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -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 C8 through C10 and boiling in the range of approximately 135 oC to 210 oC (275oF to 410oF).] - CAS: 64742-95-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 6800 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 3400 mg/kg

xylene - CAS: 1330-20-7

LD50 (RAT) ORAL: 5000 MG/KG

acetone; propan-2-one; propanone - CAS: 67-64-1

LD50 (RABBIT) ORAL: 5300 MG/KG

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration \geq 0.1%

SECTION 12: Ecological information

12.1. Toxicity

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

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The product is classified: Aquatic Chronic 2 - H411

zinc powder - zinc dust (stabilized) - CAS: 7440-66-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Daphnia = 0.44 mg/l - Duration h: 96

12.2. Persistence and degradability

None

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- 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. Endocrine disrupting properties
No endocrine disruptor substances present in concentration $\geq 0.1\%$
- 12.7. 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 or ID number
- | | |
|------------------------|------|
| ADR/RID/ADN-UN Number: | 1950 |
| ADR/RID-UN Number: | 1950 |
| ADR/ADN-UN Number: | 1950 |
| ADR-UN number: | 1950 |
| IATA-Un number: | 1950 |
| IMDG-Un number: | 1950 |
- 14.2. UN proper shipping name
- | | |
|---------------------|------------------------------|
| ADR-Shipping Name: | *ENTER PROPER SHIPPING NAME* |
| IATA-Shipping Name: | *ENTER PROPER SHIPPING NAME* |
| IATA-Shipping Name: | AEROSOL |
| IMDG-Shipping Name: | *ENTER PROPER SHIPPING NAME* |
| IMDG-Shipping Name: | AEROSOL |
- 14.3. Transport hazard class(es)
- | | |
|-------------|------|
| ADR-Class: | 2 5F |
| IATA-Class: | 2.1 |
| IATA-Label: | 2.1 |
| IMDG-Class: | 2 |
| IMDG-Class: | 2 |
- 14.4. Packing group
- | | |
|---------------------|---|
| ADR-Packing Group: | - |
| IATA-Packing group: | - |
| IMDG-Packing group: | - |
- 14.5. Environmental hazards
- | | |
|-------------------|------------------|
| Marine pollutant: | Marine pollutant |
|-------------------|------------------|
- 14.6. Special precautions for user
- | | |
|--------------------------|----------|
| IATA-Passenger Aircraft: | ---- |
| IATA-Cargo Aircraft: | 203 |
| IMDG-Page: | F-D, S-U |
- 14.7. Maritime transport in bulk according to IMO instruments

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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. 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
Restriction 40

Restrictions related to the substances contained:

Restriction 28
Restriction 29
Restriction 75

Volatile Organic compounds - VOCs = 590.85 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.00

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, E2

15.2. Chemical safety assessment

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

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SECTION 16: Other information

Text of phrases referred to under heading 3:

- H225 Highly flammable liquid and vapour.
- H220 Extremely flammable gas.
- H280 Contains gas under pressure; may explode if heated.
- H226 Flammable liquid and vapour.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H335 May cause respiratory irritation.
- H304 May be fatal if swallowed and enters airways.
- H411 Toxic to aquatic life with long lasting effects.
- H318 Causes serious eye damage.
- H302 Harmful if swallowed.

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/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
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
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

This safety data sheet has been completely updated in compliance to Regulation 2020/878. 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
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Aquatic Chronic 2, H411	Calculation method

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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.

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.
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.