

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))  
HYSO 93**

Regulation (EU) n. 2020/878

**Safety Data Sheet date: 10/1/2023, version 9**

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name: HYSO 93  
SDS code: P20231  
UFI: RKQD-79T8-XV1P-A3X9

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

Recommended use:

Solvent  
Cleaner  
Industrial uses

Uses advised against:

No uses advised against are identified.

**1.3. Details of the supplier of the safety data sheet****Manufacturers:**

Socomore SASU  
Zone Industrielle du Prat - CS 23707 - 56037 VANNES CEDEX - France  
Tel : +33 (0)2 97 43 76 83 - Fax : +33 (0)2 97 54 50 26  
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**Competent person responsible for the safety data sheet:**

techdirsocomore@socomore.com

**1.4. Emergency telephone number**

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

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**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****EC regulation criteria 1272/2008 (CLP)**

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

EUH066 Repeated exposure may cause skin dryness or cracking.

Adverse physicochemical, human health and environmental effects:

No other hazards

**2.2. Label elements**

Hazard pictograms:

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Danger

Hazard statements:

H304 May be fatal if swallowed and enters airways.

Precautionary statements:

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

P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

HYDROCARBONS, C12-C15, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

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:

Qty	Name	Ident. Number	Classification
$\geq 70\%$ - $< 80\%$	HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICIS	EC: 926-141-6 REACH No.: 01- 2119456620 -43	☠ 3.10/1 Asp. Tox. 1 H304 EUH066
$\geq 15\%$ - $< 20\%$	HYDROCARBONS, C12-C15, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICIS	EC: 920-107-4 REACH No.: 01- 2119453414 -43	☠ 3.10/1 Asp. Tox. 1 H304 EUH066
$\geq 0.001\%$	Oleic acid, compound	CAS: 40027-38-1	☠ 3.2/2 Skin Irrit. 2 H315

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- < 0.1%	with (Z)-N-octadec-9-enylpropane-1,3-diamine	EC: 254-754-2 REACH No.: 01-2119974119-29	 3.3/2 Eye Irrit. 2 H319  3.9/2 STOT RE 2 H373  4.1/C2 Aquatic Chronic 2 H411  4.1/A1 Aquatic Acute 1 H400 M=10.
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#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

In case of skin contact:

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 with plenty of water and soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

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 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

##### 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:

Water.

Carbon dioxide (CO<sub>2</sub>).

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.

##### 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.

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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

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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**

Keep away from food, drink and feed.

Incompatible materials:

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**

Occupational exposure limit values

No occupational exposure limit available

DNEL Exposure Limit Values

Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine - CAS: 40027-38-1

Worker Industry: 0.29 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 0.04 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine - CAS: 40027-38-1

Target: Fresh Water - Value: 0.00646 mg/l

Target: Marine water - Value: 0.000646 mg/l

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Target: Microorganisms in sewage treatments - Value: 99.3 mg/l  
 Target: Freshwater sediments - Value: 204 mg/kg  
 Target: Marine water sediments - Value: 20.4 mg/kg  
 Target: Soil (agricultural) - Value: 9.93 mg/kg  
 Target: Water (intermittent discharge) - Value: 0.0041 mg/l

Biological Exposure Index  
 N.A.

#### 8.2. Exposure controls

See below, example of PPE to use.

Eye protection:

Safety goggles (EN 166)

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable gloves type: NF EN374

NBR (nitrile rubber).

PVA (Polyvinyl alcohol).

Respiratory protection:

In case of Aerosol or mist formation, use respiratory protection such as P2 (filters at least 94 % of airborne particles; colour code: White).

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:	Colourless	--	--
Odour:	N.A.	--	--
Melting point/freezing point:	Not Relevant	--	--
Boiling point or initial boiling point and boiling range:	205 °C	NF T67-101	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	0.5-6%	--	--

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Flash point (°C):	82°C	EN ISO 2719	--
Auto-ignition temperature:	260 °C	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	<= 14 mm <sup>2</sup> /sec (40 °C)	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	< 0,01kPa(0,02 mmHg calculé (20°C))	--	--
Density and/or relative density:	0.8	ISO 649, ASTM D1298	--
Relative vapour density:	6.1	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

#### 9.2. Other information

Properties	Value	Method:	Notes
Viscosity:	< 7 mm <sup>2</sup> /s (40°C)	--	--

Volatile Organic compounds - VOCs = 0 g/l

## 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

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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:

N.A.

Toxicological information of the main substances found in the product:

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: OECD TG 401

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Source: OECD TG 402

Test: LC50 - Route: Inhalation > 5000 mg/m3 - Source: OECD TG 403

Reproductive toxicity:

Test: NOAEL - Route: Oral = 1000 mg/kg/d - Source: OECD TG 421

HYDROCARBONS, C12-C15, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: OECD TG 401

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Source: OECD TG 402

Test: LC50 - Route: Inhalation > 5000 mg/m3 - Source: OECD TG 403

Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine - CAS: 40027-38-1

Acute toxicity:

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

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

STOT-repeated exposure:

Test: NOAEL - Route: Oral = 1 mg/kg bw/day

If not differently specified, the information required in Regulation (EU)2020/878 listed below must be considered as N.A.:

Acute toxicity;

Skin corrosion/irritation;

Serious eye damage/irritation;

Respiratory or skin sensitisation;

Germ cell mutagenicity;

Carcinogenicity;

Reproductive toxicity;

STOT-single exposure;

STOT-repeated exposure;

Aspiration hazard.

**11.2. Information on other hazards**

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Endocrine disrupting properties:

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

Other toxicological information:

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Prolonged or repeated contact may dry skin and cause irritation.

Eye contact:

Temporary burning sensation and redness

Inhalation of vapours or aerosols may be irritating to the respiratory tract and mucous membranes.

Inhalation of high concentration vapours causes a narcotic reaction on the central nervous system, and severe lung damage.

Ingestion:

Severe lung damage

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Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine

Acute toxicity:

Ingestion: human, risk of burns of the mouth, esophagus and stomach.

Skin contact:

Irritating to skin.

Eye contact:

Irritating to eyes

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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.

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

a) Aquatic acute toxicity:

Endpoint: LL50

- Species: Rainbow Trout (*Oncorhynchus mykiss*) > 1000 mg/l - Duration h: 96

Endpoint: LL0 - Species: Rainbow Trout (*Oncorhynchus mykiss*) < 1000 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEL - Species: Fish = 0.173 mg/l - Duration h: 672

HYDROCARBONS, C12-C15, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

a) Aquatic acute toxicity:

Endpoint: LL50

- Species: Rainbow Trout (*Oncorhynchus mykiss*) > 1000 mg/l

Endpoint: LL0 - Species: Rainbow Trout (*Oncorhynchus mykiss*) = 1000 mg/l

b) Aquatic chronic toxicity:

Endpoint: NOEL - Species: Worm

Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine - CAS: 40027-38-1

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 0.41 mg/l

Endpoint: LC50 - Species: Fish = 1.34 mg/l - Duration h: 96



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Endpoint: EC50 - Species: Daphnia = 1.4 mg/l - Duration h: 504

Endpoint: NOEC - Species: activated sludge = 993.2 mg/l - Duration h: 3 - Notes: OCDE - 209

b) Aquatic chronic toxicity:

Endpoint: EC10 - Species: Daphnia = 1.35 mg/l - Duration h: 504 - Notes: OCDE - 211

Endpoint: EC10 - Species: Pseudokirchneriella subcapitata (green algae) = 0.323 mg/kg/d -

Notes: OCDE - 201

d) Terrestrial toxicity:

Endpoint: NOEC - Species: Eisenia fetida < 9.932 mg/kg - Duration h: 672 - Notes: OCDE - 222

#### 12.2. Persistence and degradability

HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Biodegradability: Biodegradability rate - Duration: 28 days - %: 77-83%

Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine - CAS: 40027-38-1

Biodegradability: Readily biodegradable - Duration: 28 days - %: 61 - Notes: (in water) OCDE - 301 F

#### 12.3. Bioaccumulative potential

Oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine - CAS: 40027-38-1

Log Kow 2.18 - Notes: Method: calculated

BCF 708 - Notes: Method: calculated

#### 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):

14 06 03\* Other solvents and solvent mixtures

### SECTION 14: Transport information

#### 14.1. UN number or ID number

Not classified as dangerous in the meaning of ADR, IATA and IMDG transport regulations.

#### 14.2. UN proper shipping name

N.A.

#### 14.3. Transport hazard class(es)

N.A.

#### 14.4. Packing group

N.A.

#### 14.5. Environmental hazards

ADR-Environmental Pollutant: No

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IMDG-Marine pollutant: No

**14.6. Special precautions for user**

N.A.

**14.7. Maritime transport in bulk according to IMO instruments**

N.A.

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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. 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)

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:

No restriction.

Listed or in compliance with the following international inventories:

N.A.

The following substance(s) in this product has/have an identification by CAS number either in countries not affected by the REACH regulation or in regulations not yet updated to reflect the new naming convention for hydrocarbon solvents:

HYDROCARBONS, C12-C15, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS (CAS: 64742-47-8)

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HYDROCARBONS, C11-C14, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS (CAS: 64742-47-8)

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

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aliphatic hydrocarbons  $\geq$  30%

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

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)

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

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### 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.

EUH066 Repeated exposure may cause skin dryness or cracking.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

H411 Toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

Hazard class and hazard category	Code	Description
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2

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Eye Irrit. 2	3.3/2	Eye irritation, Category 2
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 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
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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SOCOMORE strongly advises every recipient of this safety data sheet to read it carefully and to consult experts in the field if necessary or appropriate, in order to understand the information it contains, notably the possible dangers associated with this product. The users must ensure the conformity and completeness of this information with regards to their specific use of the product.

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 responsibility of the purchaser/user to ensure that their activities conform with current legislation in force.

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.

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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.
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.