

# Material Safety Data Sheet according to (EC) 1907/2006



Tradename:

**IMPRIMO® LC IBT**

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

### 1.1. Product identifier

Name of product: **IMPRIMO® LC IBT**

UFI: 12DW-842T-7T3W-QJS5

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

#### Use of the substance/mixture

Methacrylate based resin for DLP-systems with 385 nm light sources.

#### Uses advised against

Private households (= general public)

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer / distributor

SCHEU-DENTAL GmbH

Am Burgberg 20

D-58642 Iserlohn

Tel. +49 (2374) 9288-0

Fax +49 (2374) 9288-90

eMail: [service@SCHEU-DENTAL.com](mailto:service@SCHEU-DENTAL.com)

Internet: [www.SCHEU-DENTAL.com](http://www.SCHEU-DENTAL.com)

**1.4. Emergency telephone number:** +49 (2374) 9288-0

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2, H315

Eye Irrit. 2, H319

Skin Sens. 1/1A/1B, H317

Repr. 1A/B, H360

STOT SE 3, H335

Aquatic Chronic 3, H412

### 2.2. Label elements

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Signal word: Danger

Pictograms: GHS07, GHS08



#### Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.
H412	Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.

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P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+352	IF ON SKIN: Wash with plenty of water/soap.
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see label).
P332+313	If skin irritation occurs: Get medical advice/attention.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P337+313	If eye irritation persists: Get medical advice/attention.
P362+364	Take off contaminated clothing and wash it before reuse.
P403+233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container acc. to official regulations.

**Special labelling of particular preparations:**

none

**2.3. Other hazards**

No risks worthy of mention.

**SECTION 3: Composition / information on ingredients****3.1. Substances**

not applicable

**3.2. Mixtures**

Mixture with, among others, the following ingredients and other non-hazardous admixtures

**Composition/information on ingredients**

Stoff:	CAS-No.:	REACH-No.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	41637-38-1		25 – 45 %	Skin Irrit. 2, H315; Skin Sens. 1/1A/1B, H317; Eye Irrit. 2, H319; STOT SE 3, H335	ATE (dermal) = 2000 ATE (oral) = 2000 ATE (inhalativ) = No value can be determined
Tetrahydrofurfuryl methacrylate (Tetrahydrofuran-2-yl)methyl methacrylate	2455-24-5	01-2120748481-53-XXXX	25 – 45 %	Skin Sens. 1/1A/B, H317; Repr. 1A/B, H360D; Aquatic Chronic 3, H412	M = 1 ATE (dermal) = No value can be determined ATE (oral) = No value can be determined ATE (inhalativ) = No value can be determined
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxid	75980-60-8		≤ 2 %	Repr. 2, H361; Skin Sens. 1/1A/1B, H317; Aquatic Chronic 2, H411	M = 0 ATE (dermal) = 2000 ATE (oral) = 5000 ATE (inhalativ) = 2000

Full text of H- and EUH-phrases: see Section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures**

**General Information:** In case of accident or unwellness, seek medical advice immediately. Take off immediately all contaminated clothing.

**In case of inhalation:** Provide fresh air. Seek medical attention if problems persist.

**Following skin contact:** After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

**After eyes contact:** In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Consult an ophthalmologist.

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**After ingestion:** Rinse mouth immediately and drink plenty of water. No administration in cases of unconsciousness or cramps. Do NOT induce vomiting. Consult a physician.

**4.2. Most important symptoms and effects, both acute and delayed**

May cause sensitization by skin contact.

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

First Aid, decontamination, treatment of symptoms.

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**SECTION 5: Firefighting measures**

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**5.1. Extinguishing media**

**Suitable extinguishing media**

ABC-powder, BC-powder, alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

Water spray jet. Excess water. Full water jet. Excess water.

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

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

**5.3. Advice for firefighters**

**General information**

Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers. Use water spray jet to protect personnel and to cool endangered containers.

**Special protective equipment for fire-fighters:**

In case of fire: Wear self-contained breathing apparatus. Wear chemical resistant suit.

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**SECTION 6: Accidental release measures**

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

Wear personal protection equipment. Remove persons to safety. Remove all sources of ignition. Provide adequate ventilation.

**6.2. Environmental precautions**

Do not allow to enter into surface or drains. Do not allow to enter into soil/subsoil.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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**SECTION 7: Handling and Storage**

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**7.1. Precautions for safe handling**

**Advice on safe handling**

When using do not eat, drink, smoke, sniff. Use only in well-ventilated areas. All work processes must always be designed so that the following is excluded: Inhalation

**Precautions against fire and explosion**

Usual measures for fire prevention.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep container tightly closed and in a well-ventilated place. Keep container tightly closed and in a cool, well-ventilated place. Protect against: UV-radiation/sunlight.

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## Hints on joint storage

Do not store together with: Oxidizing agent. Organic peroxides. Keep away from food, drink and animal feedingstuffs.

## 7.3 Specific end use(s)

Observe instructions for use.

## SECTION 8: Exposure controls / personal protection

### 8.1. Control parameters

#### occupational exposure limit value

Substance	CAS-No.	Source	Occupational exposure limit value: [ppm]	Occupational exposure limit value: [mg/m <sup>3</sup> ]	Limitation of exposure peaks:	Remark:

#### Substance with a common (EC) occupational exposure limit value

Substance	CAS-No.	Source	Occupational exposure limit value: [ppm]	Occupational exposure limit value: [mg/m <sup>3</sup> ]	Limitation of exposure peaks:	Remark:

### DNEL/PNEC values

#### DNEL value

Substance:	CAS-No.:	DNEL/DMEL
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	41637-38-1	worker inhalative short-term, systemic 3,52 mg/m <sup>3</sup> worker dermal short-term, systemic 2 xxx(mg/m <sup>3</sup> /24h) population inhalative short-term, systemic 870 µg/m <sup>3</sup> population dermal short-term, systemic 1 xxx(µg/m <sup>3</sup> /24h) population short-term, systemic 500 xxx(µg/m <sup>3</sup> /24h)
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxid	75980-60-8	worker inhalative long-term, systemic 0,822 mg/m <sup>3</sup> worker dermal long-term, systemic 0,233 mg/kg bw/day population inhalative long-term, systemic 0,145 mg/m <sup>3</sup> population dermal long-term, systemic 0,0833 mg/kg bw/day population oral long-term, systemic 0,0833 mg/kg bw/day

#### PNEC-Wert

Substance:	CAS-No.:	PNEC
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxid	75980-60-8	aquatic, freshwater 1,4 µg/l aquatic, marine water 0,14 µg/l sediment, freshwater 115 µg/kg dw sediment, marine water 11,5 µg/kg dw soil 22,2 µg/kg dw

### Additional information

None.

### 8.2. Exposure controls

#### Occupational exposure controls.

Provide adequate ventilation as well as local exhaustion at critical locations. Technical measures and the application of suitable work processes have priority over personal protection equipment.

#### General protection and hygiene measures

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Apply skin care products after work. Wash contaminated clothing prior to re-use.

#### Personal protection equipment

Only wear fitting, comfortable and clean protective clothing.

#### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

#### Hand protection

Suitable gloves type: NBR (Nitrile rubber)

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**Eye/face protection**

Eye glasses with side protection.

**Body protection:**

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Only wear fitting, comfortable and clean protective clothing. Barrier creams are not substitutes for body protection.

**Environmental exposure controls.**

Refer to chapter 7. No further action is necessary.

**Consumer exposure controls**

Refer to chapter 7. No further action is necessary.

**Exposure Scenario**

Skin contact

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

<b>Physical state:</b>	Liquid
<b>Colour:</b>	pink-opaque
<b>Odour:</b>	ester-like
<b>Odour threshold:</b>	-

**Safety relevant basis data**

	Parameter	Value	Unit	Remark
<b>Melting point/freezing point:</b>				No data available
<b>Initial boiling point and boiling range:</b>				No data available
<b>Flammability:</b>				No data available
<b>Lower flammability or explosive limits:</b>				No data available
<b>Upper flammability or explosive limits:</b>				No data available
<b>Decomposition temperature:</b>				No data available
<b>pH:</b>				No data available
<b>Kinematic viscosity:</b>	at 20 °C	1,7	Pa*s	
<b>Water solubility (g/l):</b>				No data available
<b>Partition coefficient: n-octanol/water:</b>				No data available
<b>Vapour pressure:</b>				No data available
<b>Density:</b>	at 20 °C	1,1	g/ml	
<b>Relative density:</b>				No data available
<b>Particle properties:</b>				No data available

**9.2. Other information**

none

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Sensitivity to light (photosensitive)

**10.2. Chemical stability**

Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.

**10.3. Possibility of hazardous reactions**

Polymerization.

**10.4. Conditions to avoid**

Heat. UV-radiation/sunlight.

**10.5. Incompatible materials**

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

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**10.6. Hazardous decomposition products**

In case of fire may be liberated. Carbon dioxide. Carbon monoxide.

**SECTION 11: Toxicological Information****11.1. Information on toxicological effects**

None

**M-factor:** -**Acute toxicity (oral):** -**Acute toxicity (dermal):** -**Acute toxicity (inhalative):** -**Acute toxicity**

Substance:	CAS-No.:	Toxicological information
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	LC50 inhalation (rat) 2000 mg/kg bw LD50 oral (rat) 5000 mg/kg bw LD50 dermal (rat) > 2000 mg/kg bw
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	41637-38-1	LD50 oral (rat) 2000 mg/kg LD50 dermal (rat) 2000 mg/kg
Tetrahydrofurfuryl methacrylate (Tetrahydrofuran-2-yl)methyl methacrylate	2455-24-5	LD50 oral (rat) 3945 mg/kg NOAEL Repr.-Tox. (rat) 300 mg/kg/d NOAEL STOT-RE (rat) 300 mg/kg/d

**Skin corrosion/irritation:**

Sensitising.

**Serious eye damage/irritation:**

Strongly irritant.

**Respiratory of skin sensitisation:**

May cause an allergic skin reaction.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Carcinogenicity:

There are no data available on the preparation/mixture itself.

Germ cell mutagenicity:

There are no data available on the preparation/mixture itself.

Reproductive toxicity:

There are no data available on the preparation/mixture itself.

**STOT-single exposure:**

There are no data available on the preparation/mixture itself.

**STOT-repeated exposure:**

There are no data available on the preparation/mixture itself.

**Aspiration hazard:**

There are no data available on the preparation/mixture itself.

**SECTION 12: Ecological Information****12.1. Toxicity**

There are no data available on the preparation/mixture itself.

**Ecotoxicity**

Substance:	CAS-No.:	Ecotoxicity
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	EC50 (Daphnia, 48 h) 3,53 mg/l EC50 (algae, 72 h) > 2,01 mg/l
Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid	41637-38-1	LC50 (fish, 96 h) 100 mg/l LC50 (crustaceans, 48 h) 6 mg/l EC50 (algae, 72 h) 100 mg/l
Tetrahydrofurfuryl methacrylate (Tetrahydrofuran-2-yl)methyl methacrylate	2455-24-5	LC50 (fish, 96 h) 347 mg/l EC50 (algae, 72 h) >72 mg/l

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**12.2. Persistence and degradability**

There are no data available on the mixture itself.

**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

**12.4. Mobility in soil**

There are no data available on the mixture itself.

**12.5. Results of PBT an vPvB assessment**

There are no data available on the mixture itself.

**12.6. Endocrine disruptive effect**

There are no data available on the mixture itself.

**12.7. Other adverse effects**

There are no data available on the mixture itself.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product:**

Dispose of waste according to applicable legislation.

**Appropriate disposal / Package**

Can be incinerated together with household waste in compliance with applicable technical regulations following consultation with approved waste disposal management companies and authorities in charge.

**List of proposed waste codes/waste designations in accordance with EWC / AVV**

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

**SECTION 14: Transport Information**

**Land transport (ADR/RID)**

<b>14.1. UN number:</b>	No hazardous material according to transport regulations.
<b>14.2. UN proper shipping name:</b>	
<b>14.3. Transport hazard class(es):</b>	
<b>14.4. Packing group:</b>	
Hazard label:	
Classification code:	
Special Provisions:	
Limited quantity:	
Transport category:	
Hazard No:	
Tunnel restriction code:	
<b>Other applicable information (land transport)</b>	

**Inland waterways transport (ADN)**

<b>14.1. UN number:</b>	No hazardous material according to transport regulations.
<b>14.2. UN proper shipping name:</b>	
<b>14.3. Transport hazard class(es):</b>	
<b>14.4. Packing group:</b>	
Hazard label:	
Classification code:	
Spezial Provisions:	
Limited quantity:	
<b>Other applicable information (inland waterways transport)</b>	

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**Marine transport (IMDG)**

<b>14.1. UN number:</b>	No hazardous material according to transport regulations.
<b>14.2. UN proper shipping name:</b>	
<b>14.3. Transport hazard class(es):</b>	
<b>14.4. Packaging group:</b>	
Hazard label:	
Special Provisions::	
Limited quantity:	
EmS:	
<b>Other applicable information (marine transport):</b>	

**Air transport (ICAO)**

<b>14.1. UN number:</b>	No hazardous material according to transport regulations.
<b>14.2. UN proper shipping name:</b>	
<b>14.3. Transport hazard class(es):</b>	
<b>14.4. Packaging group:</b>	
Hazard label:	
Special Provisions:	
Limited quantity Passenger:	
IATA-packing instructions - Passenger:	
IATA-max. quantity - Passenger:	
IATA-packing instructions - Cargo:	
IATA-max. quantity - Cargo:	
<b>Other applicable information (air transport)</b>	
Passenger-LQ:	

**14.5. Environmental hazards**

ADR/RID / IMDG / ICAO-TI / IATA-DGR: no

Marine pollutant: no

**14.6. Special precautions for user****Land transport (ADR/RID)**

Transport category: -

Special provisions: -

Tunnel restriction code: -

Limited quantity (LQ): -

**Sea transport (IMDG)**

EmS-No: -

Special provisions: -

Limited quantity (LQ): -

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Remark none

**SECTION 15: Regulatory Information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

## EU legislation

Information on Regulation (EC) No 166/2006 establishing a European Pollutant Release and Transfer Register:

-

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer:

-

Regulation (EC) No. 648/2004 (Detergents regulation)

-

Regulation (EC) No. 850/2004 [POP-Regulation]:

-

Regulation (EC) No. 649/2012 on the export and import of dangerous chemicals:

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**Use restriction according to REACH annex XVII, no.:**

-

**National regulatory information**

Observe in addition any national regulations!

**Restrictions of occupation**

-

**Other regulations, restrictions and prohibition regulations**

-

**15.2. Chemical Safety Assessment****For this preparation a chemical safety assessment has been carried out. -**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other Information****Relevant H- and EUH-phrases (number and full text)****Hazard statements**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause an respiratory irritation.

H360 May damage fertility or the unborn child.

H412 Harmful to aquatic life with long lasting effects.

**Training advice**

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**Recommended restrictions of use:**

Refer to chapter 1

**Further information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

**Key literature references and sources for data**

Data arise from reference works and literature.

**Abbreviations and acronyms**

AC:	Artikelkategorie (Article Category)
ACGIH:	Rat für Arbeitsschutz und Gefahrstoffe, Amerika (American Conference of Government Industrial Hygienists)
ADN:	Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf Binnengewässern (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
ADR:	Europäisches Übereinkommen über die internationale Beförderung gefährlicher Güter auf der Straße (Accord européen relatif transport des marchandises dangereuses par route)
AGW:	Arbeitsplatzgrenzwert
AOX:	Adsorbierbare organisch gebundene Halogene (Adsorbable Organic halogen compounds)
Bw:	Körpergewicht (Body weight)
CMR:	Stoffe klassifiziert als Krebszeugend, Mutagen oder Reproduktionstoxisch (Carcinogenic, Mutagenic, toxic for Reproduction)
CSR:	Stoffsicherheitsbericht (Chemical Safety Report)
DIN:	Deutsches Institut für Normung / Deutsche Industrienorm
DNEL:	Grenzwert, unterhalb dessen der Stoff keine Wirkung ausübt (Derived No Effect Level)
DPD:	Zubereitungsrichtlinie / Richtlinie 1999-45-EC (Dangerous Preparations Directive)
DSD:	Stoffrichtlinie / Richtlinie 67-548-EC (Dangerous Substances Directive)
DU:	Nachgeschalteter Anwender (Downstream User)
EC50:	Wirksame Konzentration 50% (Effective Concentration 50%)
ECHA:	Europäische Chemikalienagentur
EN:	Europäische Norm

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EWC/EWL:	Europäischer Abfallartenkatalog (European Waste Catalogue)
IATA:	Verband für den internationalen Lufttransport (International Air Transport Association)
IBC:	Großpackmittel (Intermediate Bulk Container)
ICAO:	Internationale Zivilluftfahrt-Organisation (International Civil Aviation Organization)
IMDG Code:	Gefahrgutvorschriften für den internationalen Seetransport (International Maritime Dangerous Goods Code)
IMO:	Internationale Seeschiffahrts-Organisation (International Maritime Organization)
ISO:	Internationale Normungsorganisation (International Standards Organisation)
LC50:	Lethale (Tödliche) Konzentration 50%
LD50:	Lethale (Tödliche) Dosis 50%
LEV:	Lokale Absaugung (Local exhaust ventilation)
MAK:	Maximale Arbeitsplatzkonzentration – DFG
n.a.:	nicht anwendbar
n.b.:	nicht bestimmt
OEL:	Arbeitsplatzgrenzwert (Occupational Exposure Limit)
PBT:	persistent, bioakkumulierbar, giftig (persistent, bioaccumulative, toxic)
PNEC:	Abgeschätzte Nicht-Effekt-Konzentration (Predicted No Effect Concentration)
PPE/PSA:	Persönliche Schutzausrüstung (Personal Protective Equipment)
REACH:	Registrierung, Bewertung und Zulassung von Chemikalien (Registration, Evaluation and Authorization of Chemicals)
RID:	Gefahrgutvorschriften für den Transport mit der Eisenbahn (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)
STEL:	Grenzwert für Kurzzeitexposition (Short-term Exposure Limit)
SVHC:	Stoff sehr hoher Besorgnis (Substance of Very High Concern)
TLV:	Arbeitsplatzgrenzwert (Threshold Limit Value)
VOC:	Flüchtige organische Kohlenwasserstoffe (Volatile Organic Compounds)
vPvB:	sehr persistent, sehr bioakkumulierbar (very persistent, very bioaccumulative)