

Safety data sheet

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Trade name: **HydroTecFluid**

Printing date 13.02.2013

according to Regulation (EC) No. 1907/2006

Revision: 13.02.2013

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

- *Version number:* 3
- *Creation date:* 13.02.2013
- 1.1 Product identifier**
 - *Trade name:* HydroTecFluid
 - *Assortment:* HydroTecFluid sealers
 - *Package:*
 - 0,5 l - 5 l metal tin with safety closure
 - *Registration number*
 - This Product is a mixture. REACH Registration Number see chapter 3.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
 - *Sector of Use*
 - SU21 Consumer uses: Industrie
- 1.2.1 Application of the substance / the preparation:**
 - Special impregnating agent
- 1.2.2 Spraying with extraction**
- 1.3 Details of the supplier of the safety data sheet**
 - *Manufacturer / Supplier:*

RMB GmbH	Telefon-Nr.: +49 (0) 5732 / 68 80 534
Königstraße 3	Fax-Nr.: +49 (0) 5732 / 91 10 061
32584 Löhne	E-Mail: j.gasch@rmb-solutions.com
Germany	
 - *Informing department:*

Development Application Technology	
Bodo Mündkemüller	E-Mail: b.muendkemuller@rmb-solutions.com
- 1.4 Emergency telephone number:**
 - *Advisory office in case of poisoning:*
 - Poison Emergency Call Berlin (24h)
 - +49 (0) 030 / 30 68 67 90
 - *Telephone number of the company in case of emergencies:*
 - +49 (0) 5732 / 68 80 534
 - During Office Hours: Monday to Thursday 08:00-17:00 o'clock; Fri 08:00-15:00 o'clock

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture**
 - *Classification according to Directive 67/548/EEC or Directive 1999/45/EC*
 - Harmful
 - R65: Harmful: may cause lung damage if swallowed
 - R66: Repeated exposure may cause skin dryness or cracking.
- 2.2 Label elements**
 - *Labelling (67/548/EEC or 1999/45/EC):*
 - Symbol(s):
Harmful
 - *Hazard-determining components of labeling:*
 - Alkanes, C11-15-iso-
 - *Risk phrases:*
 - 65 Harmful: may cause lung damage if swallowed.
 - 66 Repeated exposure may cause skin dryness or cracking
 - *Safety phrases:*
 - 2 keep out of the reach of children
 - 35 This material and its container must be disposed of in a safe way.
 - 46 If swallowed, seek medical advice immediately and show this container or label.
 - 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
- 2.3 Other hazards**
 - *Results of PBT and vPvB assessment*
 - PBT: Not applicable.
 - vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

3.1 Substances: This product is a mixture.

3.2 Mixtures

- *Description*

Solution of siloxanes in hydrocarbon.

- *Dangerous components:*

GAS: 90622-58-5	Alkanes, C11-15-iso-	80-<100
EG number: 927-285-2	Xn R65	
Reg.nr.: 01-2119480162-45-XXXX	R66	
	Asp. Tox. 1, H304	
CAS: 34590-94-8	(2-methoxymethylethoxy)propanol	5-<10
EINECS: 252-104-2	substance with a Community workplace exposure	
Reg.Nr.: 01-2119450011-60-XXXX	limit	
GAS: 141-78-6	ethyl acetate	1-<5
EINECS: 205-500-4	Xi R36; F R11	
Reg.Nr.: 01-211-9475103-46-XXXX	R66-67	
	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	

- *Additional information*

For the wording of the listed risk phrases refer to section 16..

SECTION 4: First aid measures

4.1 Description of first aid measures

- *General information:*

Instantly remove any clothing soiled by the product.

- *After inhalation:*

Supply fresh air; consult doctor in case of symptoms.

- *After skin contact:*

Wash off with warm water and soap.

- *After eye contact:*

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

- *After swallowing:*

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- *Suitable extinguishing agents:*

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents Water with a full water jet.

5.2 Special hazards arising from the substance or mixture

Can be released in case of fire.

Carbon monoxide (CO) and Carbon dioxide (CO₂)

5.3 Advice for firefighters

- *Protective equipment:*

Wear self-contained breathing apparatus.

Do not inhale explosion gases or combustion gases.

- *Additional information*

Cool endangered containers with water spray jet.

Collect contaminated fire fighting water separately. It must not enter drains.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away, Ensure adequate ventilation.

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Use breathing protection against the effects of fumes/dust/aerosol.

Avoid contact with eyes and skin.

6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other section

See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Do not breathe aerosol.

Avoid prolonged or repeated skin contact.

Observe label precautions.

- *Information about protection against explosions and fires:*

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

- *Storage:*

- Requirements to be met by storerooms and contains

Provide solvent resistant, sealed floor.

- Information about storage in one common storage facility:

Do not store together with alkali (lyes).

Store away from oxidizing agents.

Store away from foodstuffs.

- Further information about storage conditions:

Keep container tightly sealed.

- Recommended storage temperature: +5 until +40 °C

- Storage class: 10-13 Other liquids and solids.

7.3 Specific end use(s)

Protects all surfaces from moisture. No penetration of moisture

SECTION 8: Exposure controls / personal production

8.1 Control parameters

- *Components with critical values that require monitoring at the workplace:*

34590-94-8 (2-methoxymethylethoxy) propanol

WEL (Great Britain) Long-term value: 308 mg/m³, 50 ppm Sk

IOELV (European Union) Long-term value: 308 mg/m³, 50 ppm

141-78-6 ethylacetate

WEL (Great Britain) Short-term value: 400 ppm

Long-term value: 200 ppm

- *DNELs*

34590-94-8 (2-methoxymethylethoxy) propanol

Oral DNEL 1.67 mg/kg bw/day (consumer) (Long-term exposure – systemic effects)

Dermal DNEL 65 mg/kg bw/day (worker) (Long-term exposure – systemic effects)

15 mg/kg bw/day (consumer) (Long-term exposure – systemic effects)

Inhalative DNEL 310 mg/m³ (worker) (Long-term exposure – systemic effects)

37.2 mg/m³ (consumer) (Long-term exposure – systemic effects)

141-78-6 ethyl acetate

Oral DNEL 4.5 mg/kg bw/day (consumer)

Dermal DNEL 63 mg/kg bw/day (worker) (Long-term exposure – systemic effects)

37 mg/kg bw/day (consumer) (Long-term exposure – systemic effects)

Inhalativ DNEL 1468 mg/m³ (worker) (Acute 1 short-term exposure – systemic effects)

734 mg/m³ (worker) (Long-term exposure – systemic effects)

734 mg/m³ (consumer) (Acute 1 short-term exposure – local effects)

367 mg/m³ (consumer) (Long-term exposure – systemic effects)

- *PNEC-Werte:*

34590-94-8 (2-methoxymethylethoxy) propanol

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PNEC STO	4168 mg/l (Sewage treatment plant)
PNEC aqua	19 mg/l (freshwater)
	1.9 mg/l (marine water)
	190 mg/l (intermittent releases)
PNEC sediment	70.2 mg/kg (freshwater)
	7.02 mg/kg (marine water)
PNEC soil	2.74 mg/kg (soil)
141-78-6 ethyl acetate	
PNEC STP	650 mg/l (Sewage treatment plant)
PNEC aqua	1.65 mg/l (intermittent releases)
PNEC sediment	1.25 mg/kg (freshwater)
	0.125 mg/kg (marine water)
PNEC soil	0.24 mg/kg (soil)

• *Additional information:* This lists that were valid during the compilation were used as basis.

8.2 Exposure controls

8.2.1 Engineering controls:

Technical measures and appropriate working operations should be given priority over the use of personal Protective equipment.

See Section 7

8.2.2 Personal protective equipment:

Protective clothing need to be selected specifically for the workplace. Depending on concentration and quantities of the hazardous substance handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Protective equipment only required in case of industrial use or for large packs (not for household packs)

- *General protective and hygienic measures:*

Keep away from foodstuffs, beverages and food.

Wash hands during breaks and at the end of the work.

Avoid close or long term contact with the skin.

Do not inhale gases / fumes / aerosols.

Ensure that washing facilities are available in the work place.

- *Breathing equipment:*

Not necessary if room is well-ventilated.

Use breathing protection in case of insufficient ventilation.

- *Recommended filter device for short term use:*

Filter A (colour code: brown)

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. The measures have to be properly documented.

- *Protection of hands:*

Protective gloves.

- *Material of gloves*

Nitrile rubber, NBR

Recommended thickness of the material: ~ 0.4 mm

- *Penetration time of glove material*

> 480 min

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and related standard EN374, for example KCL 730 Camatril® Velours. This recommendation applies only to the product stated in safety data sheet supplied by us and for the designated use.

- *Not suitable are gloves made of the following materials:*

Leather gloves

Strong gloves

- *Eye protection:*

Safety glasses recommended during refilling.

- *Body protection:* Solvent resistant protective clothing.

8.2.3 Limitation and supervision of exposure into the environment

See Sections 6 and 7.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- *General Information*

- Appearance:

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Form:	Fluid
Colour:	Colourless
o Smell:	Mild
o Odour threshold:	Not determined
o pH value:	Not determined
• <i>Change in condition</i>	
Melting point / Melting range:	-45 °C
Boiling point / Boiling range:	180°C
• <i>Flash point</i>	>62°C (EN ISO 2719)
• <i>Ignition temperature</i>	228 °C
• <i>Decomposition temperature</i>	Not determined
• <i>Self-inflammability</i>	Product is not selfigniting
• <i>Danger of explosion</i>	Product is not explosive
• <i>Critical values for explosion</i>	
Lower	0,5 Vol %
Upper	5,0 Vol %
• <i>Steam pressure at 20 °C</i>	-0,6 hPa
• <i>Density</i>	
Relative density at 20 °C	0,77 g/cm ³ ((EG) Nr. 440/2008; A.3.)
Vapour density	Not determined
Evaporation rate	Not determined
• <i>Solubility in / Miscibility with</i>	
Water	Not miscible or difficult to mix
• <i>Partition coefficient (n-octanol/water):</i>	Not applicable
• <i>Viscosity</i>	
dynamic	Not determined
kinematic	Not determined
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity: See Section 10.3

10.2 Chemical stability

- *Thermal decomposition / conditions to be avoided:*
No decomposition if used according to specification.

10.3 Possibility of hazardous reactions

Violent reactions with strong alkalis and oxidizing agents

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials:

Strong oxidizing agents
Alkalis (bases, lyes)

10.6 Hazardous decomposition products: in the event of fire: See Section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects: Mixture not tested.

- *Acute toxicity:*

LD/LC50 values that are relevant for classification:

90622-58-5 Alkanes, c11-15-iso-

Oral LD50 >5000 mg/kg (rat) (OECD Guideline 401)
ECHA

Inhalative LC50/8h >5000 mg/m³ (rat) (OECD Guideline 403)
ECHA

34590-94-8 (2-methoxymethylethoxy) propanol

Oral LD50 >5000 mg/kg (rat) (OECD Guideline 401)
ECHA

Dermal LD50 >5000 mg/kg (rat) (OECD Guideline 402)
ECHA

Inhalative LC50/4h 55-60 mg/l (rat)
External MSDS

141-78-6 ethyl acetate

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Oral	LD50	5.620 mg/kg (rat) RTECS
Dermal	LD50	>18.000 mg/kg (rabbit) Fremd-Sicherheitsdatenblatt
Inhalative	LC50/4h	5.86 mg/l (rat) Literatur

- **Primary irritant / corrosive effect:**
 - **On the skin:**
Prolonged or repeated contact can defat the skin and lead to irritation and for dermatitis.
 - **On the eye:**
Based on available date, the classification criteria are not met. The classification was carried out According to the calculation method of the Preparations Directive (1999/45/EC)
 - **Sensitization:**
Based on available date, the classification criteria are not met. The classification was carried out According to the calculation method of the Preparations Directive (1999/45/EC)
- **Repeated dose toxicity**
Not tested
Based on our experience and the information available, no adverse health effects are expected if handle das recommended with suitable precautions for designated uses.
- **Carcinogenicity**
Not tested
Based on our experience and the information available, no adverse health effects are expected if handle das recommended with suitable precautions for designated uses.
- **Mutagenicity**
Not tested
Based on our experience and the information available, no adverse health effects are expected if handle das recommended with suitable precautions for designated uses.
- **Toxicity for reproduction**
Not tested
Based on our experience and the information available, no adverse health effects are expected if handle das recommended with suitable precautions for designated uses.
- **Additional toxicological information:**
The product shows the following dangers according tot he calculation method oft he General EC Classification Guidelines for Preparations as issued in the latest version:
Harmful

SECTION 12: Ecological information

12.1 Toxicity

Mixture not tested.

The Classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

- **Aquatic toxicity:**
 - 90622-58-5 Akanes, C11-15-iso-
EL50/72 h > 1000 mg/l (Pseudokirchneriella subcapitata) (OECD Guideline 201)
ECHA
 - LL50/96 h > 1000 mg/l (rainbow trout (Oncorhynchus mykiss)) (OECD Guideline 203)
ECHA
 - NOELR/ 21 d 1 mg/l (Daphnia magna) (OECD Guideline 211)
ECHA
 - 34590-94-8 (2-methoxymethylethoxy) propanol
EC50/72 h > 1000 mg/l (Pseudokirchneriella subcapitata) (OECD Guideleine 201)
ECHA
 - LC50/96 h > 1000 mg/l (Poecilia reticulata (guppy)) (OECD Guideleine 203)
ECHA
 - 141-78-6 ethyl acetate
EC10/16 h 2900 mg/l (Pseudomonas putida (bacteria))
IUCLID
 - EC50/48 h 717 mg/l (Daphnia magna)
IUCLID
 - LC50/96 h 230 mg/l (Pimephales promelas (fathead minnow))
IUCLID

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12.2 Persistence and degradability

90622-58-5 Alkanes, C11-15-iso-

Biodegradability 77,6% (28 d) (OECD 301 F)
Readily biodegradable

34590-94-8 (2-methoxymethylethoxy) propanol

Biodegradability 96% (25 d) (OECD 301 F)
Readily biodegradable

141-78-6 Ethylacetat

Biodegradability 100% (28 d) (OECD 301 E)
Readily biodegradable

- **Other information**

The product is easily biodegradable.

The statement is derived from the properties of the single components.

12.3 Bioaccumulative potential

34590-94-8 (2-methoxymethylethoxy) propanol

log POW 0,0043 (calculated) (OECD Guideline 107)
Bioaccumulation is not expected (log Pow <1).

141-78-6 ethyl acetate

Bioconcentration factor (BCF) 30 (-)
log POW 0,73 (experimental)
Bioaccumulation is not expected (log Pow <1).

12.4 Mobility in soil: No further relevant information available.

- **Ecotoxicological effects:**

- Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8182 B):

34590-94-8 (2-methoxymethylethoxy) propanol
EC20 > 1000 mg/l (activated sludge organisms) (OECD 209)

- Additional ecological information:

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

12.5 Results of PBT and vPvB assessment:

- **PBT:** Not applicable

- **vPvB:** Not applicable

12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering, waste and dangerous waste.

13.1.1 Appropriate disposal / Product:

Recommendation: Dispose of in accordance with local and national regulation.

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

070000 WASTES FROM ORGANIC CHEMICAL PROCESSES
070100 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
070104* other organic solvents, washing liquids and mother liquors

13.1.2 Appropriate disposal / Package:

Recommendation: Disposal must be made according to official regulations

SECTION 14: Transport information

14.1 UN-Nummer

ADR, ADN, IMDG Void

14.2 Ordnungsgemäße UN-Versandbezeichnung

ADR, ADN, IMDG Void

14.3 Transport hazard class(es)

ADR, ADN, IMDG
○ Class Void

14.4 Packing group

ADR, IMDG Void

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex 11 of MARPOL 73/78 and the IBC Code

Not applicable

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- *Transport/Additional information* Not dangerous according to the above specifications.

ABSCHNITT 15: Rechtsvorschriften

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

- *EC regulations:*
 - Regulation (EC) No 850/2004 (Persistent Organic Pollutants): *Not applicable.*
 - Regulation (EC) No 689/2008 (export and import of dangerous chemicals): *Not applicable.*
 - Regulation (EC) No 1005/2009 (substances that deplete the ozone layer): *Not applicable.*
 - Regulation (EC) No 648/2004 on detergents / Labeling for contents: *Not applicable.*
 - Regulation (EC) No 528/2012 (making available on the market and use of biocidal products): *Not applicable.*
- *National regulations*
 - Information about limitation of use:
Employment restrictions concerning young persons must be observed.
Employment restrictions concerning pregnant and lactating woman must be observed.
 - Störfallverordnung (12. BImSchV): *Not subject to StörfallVO.*
 - Water hazard class: *Water hazard class 1 (Self-assessment):* slightly hazardous for water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

16.1 Reasons for change: Revised in compliance with EU regulation EC 453/2010.

16.2 Wording of the R/H-phrase specified in chapter 2 and 3 (not the classification of the mixture!):

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
R11	Highly flammable.
R36	Irritating to eyes.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

16.3 Training hintz

Employers must ensure that, prior to commencement to their work and then at least once every year, workers carrying out activities using hazardous substances be given verbal instruction relating to the workplace or the activity, on the basis of the working instruction. (TRGS 555)
Additional details for intended use, please find in the technical information and internet. In case of doubt please use our product hotline +49 (0) 5732 / 6880534.
Additional details for intended use, please find in the technical information and internet. In case of doubt please use our product hotline +49 (0) 5732 / 6880534.

16.4 Literature and data sources

Data arise from reference works and literature.

16.5 Additional 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 new made-up material.

- Department issuing data specification sheet:
Department research & development
- Contact:
Herr Bodo Mündkemüller b.muendkemueller@rmb-solutions.com

16.6 Any Abbreviations and acronyms used in this document:

AC:	Article Categories
ADR:	Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOEL:	Acceptable Operator Exposure Level
AOX:	absorbable organically bound halogens
ATE:	Acute Toxicity Estimate

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BAM:	Bundesanstalt für Materialforschung und -prüfung Federal Institute for Materials Research and Testing)
BAuA:	Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (Federal Institute for Occupational Safety and Health)
BCF:	Bioconcentration factor
BfR:	Bundesinstitut für Risikobewertung (Federal Institute for Risk Assessment)
BGV:	Berufsgenossenschaftliche Vorschrift (Accident prevention regulation)
BOD:	Biochemical oxygen demand
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
CESIO:	European Committee of Organic Surfactants and their Intermediates
CLP:	Classification, Labelling and Packaging
CMR:	Carcinogenic, mutagenic and reprotoxic
COD:	Chemical Oxygen Demand
DIN:	Deutsches Institut für Normung (German Institute for Standardization)
DNEL:	Derived No-Effect Level (REACH)
DOC:	Dissolved organic carbon
EC:	European Community
ECHA:	European Chemicals Agency
EEC:	European Economic Community
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
EU:	European Union
EWC:	European Waste Catalogue Regulation
Fax.:	Fax-number
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
VCI:	Verband der chemischen Industrie, Deutschland (German chemical industry association)
IATA:	International Air Transport Association
IMDG:	International Maritime Code for Dangerous Goods
ISO:	International Organization for Standardization
IUCLID:	International Uniform Chemical Information Database
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
NOAEL:	No Observed Adverse Effect Level
NOEC:	No Observed Effect Concentration
NOEL:	No Observed Effect Level
OECD:	Organisation for Economic Co-operation and Development
PBT:	Persistent Bioaccumulative and Toxic
PC:	Product Category
PE:	Polyethylene
PNEC:	Predicted No-Effect Concentration (REACH)
PTFE:	Polytetrafluorethylen
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemieals
RIO:	Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
SU:	Sector of Use
SVHC:	Substance of Very High Concern
Tel.:	Telephone
ThOD:	Theoretical Oxygen Demand
TRGS:	Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)
VOC:	Volatile Organic Compounds (USA, EU)
vPvB:	very Persistent and very Bioaccumulative

*** Data compared to the previous version altered.**

Data changed compared with the previous version.