

# Safety Data Sheet

according to UK REACH Regulation

**Protect W**

Revision date: 08.03.2022

Product code:

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

Protect W

UFI: MQ00-709F-D00G-42E2

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

Hydrophobing agent

**Uses advised against**

Any non-intended use.

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Company name:	Schaich Chemie und Bautenschutz GmbH	
Street:	Ficht 8	
Place:	D-94107 Untergriesbach	
Telephone:	+49(0)8593 93 96 207	Telefax: +49(0)8593 93 96 206
e-mail:	info@schaich-chemie.de	
Internet:	www.schaich-chemie.de	
Responsible Department:	+49 (0)8593 9396207 (8:00-16:00)	

**Supplier**

Company name:	Stein & Co. GmbH
Street:	Wirtschaftspark Straße 3/9
Place:	A-4482 Ennsdorf

**1.4. Emergency telephone number:** +49 (0)8593 9396207 (8:00-13:00)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**Flam. Liq. 3; H226  
Skin Irrit. 2; H315

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Signal word:** Warning**Pictograms:****Hazard statements**H226 Flammable liquid and vapour.  
H315 Causes skin irritation.**Precautionary statements**P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P370+P378 In case of fire: Use extinguishing media other than water to extinguish.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3. Other hazards**

In use, may form flammable/explosive vapour-air mixture.  
 For information or further instructions, see also section 11 or 12.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
2550-02-9	Triethoxypropylsilane			20 - < 25 %
	219-842-7		01-2119966162-38	
	Flam. Liq. 3, Skin Irrit. 2; H226 H315			

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
2550-02-9	219-842-7	Triethoxypropylsilane	20 - < 25 %
	oral: LD50 = > 5110 mg/kg		

**Further Information**

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.

**After inhalation**

Remove person to fresh air and keep comfortable for breathing. In case of respiratory tract irritation, consult a physician.

**After contact with skin**

Take off immediately all contaminated clothing. Wash with plenty of water. In case of skin irritation, seek medical treatment.

**After contact with eyes**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**After ingestion**

Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

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Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam.

In case of major fire and large quantities: Atomized water.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO<sub>2</sub>).**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Remove all sources of ignition. Ventilate affected area.

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

**For non-emergency personnel**

Wear personal protection equipment. (See section 8.)

**For emergency responders**

No special measures are necessary.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up**

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

**Other information**

Ventilate affected area.

**6.4. Reference to other sections**

Safe handling: see section 7

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation as well as local exhaust at critical locations.

Wear suitable protective clothing. (See section 8.)

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**Advice on protection against fire and explosion**

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

**Advice on general occupational hygiene**

The usual precautions for handling chemicals should be considered. Keep away from food, drink and animal feedingstuffs. Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work. Protect skin by using skin protective cream. Take off contaminated clothing.

**Further information on handling**

General protection and hygiene measures: See section 8.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep only in the original container in a cool, well-ventilated place. Protect against direct sunlight. Ensure adequate ventilation of the storage area. Make sure spills can be contained (e.g. sump pallets or kerbed areas).

**Hints on joint storage**

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

**Further information on storage conditions**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Protect against: UV-radiation/sunlight. heat. Humidity frost. storage temperature: 15-25°C

**7.3. Specific end use(s)**

See section 1.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
2550-02-9	Triethoxypropylsilane			
Worker DNEL, long-term		inhalation	systemic	436,28 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	62,95 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	106,59 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	194,25 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	30,91 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	19,6 mg/kg bw/day

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64-17-5	ethanol, ethyl alcohol		
Worker DNEL, acute	inhalation	local	1900 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	343 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	950 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	local	950 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	206 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	114 mg/m <sup>3</sup>
Consumer DNEL, long-term	oral	systemic	87 mg/kg bw/day

**PNEC values**

CAS No	Substance		Value
Environmental compartment			
2550-02-9	Triethoxypropylsilane		
Freshwater			2 mg/l
Freshwater (intermittent releases)			2,12 mg/l
Marine water			0,2 mg/l
Freshwater sediment			96 mg/kg
Marine sediment			9,6 mg/kg
Micro-organisms in sewage treatment plants (STP)			10 mg/l
Soil			18,02 mg/kg
64-17-5	ethanol, ethyl alcohol		
Freshwater			0,96 mg/l
Freshwater (intermittent releases)			2,75 mg/l
Marine water			0,79 mg/l
Marine water (intermittent releases)			2,75 mg/l
Freshwater sediment			3,6 mg/kg
Marine sediment			2,9 mg/kg
Secondary poisoning			0,72 mg/kg
Micro-organisms in sewage treatment plants (STP)			580 mg/l
Soil			0,63 mg/kg

**8.2. Exposure controls****Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaust at critical locations.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses; chemical goggles (if splashing is possible). BS/EN 166

**Hand protection**

In case of prolonged or frequently repeated skin contact: Wear suitable gloves. (BS EN 374)  
Suitable material: Butyl rubber.

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Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  480 min. Penetration time (maximum wearing period): ~ 120 min. (estimated)

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN ISO 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

**Skin protection**

Wear suitable protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

**Respiratory protection**

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

Respiratory protection necessary at:

Exceeding exposure limit values

Insufficient ventilation

Suitable respiratory protective equipment:

particulates filter device (DIN EN 143). Type: P2

Filtering Half-face mask (DIN EN 149). Type: FFP2

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**Environmental exposure controls**

Do not allow uncontrolled discharge of product into the environment.

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

Physical state:	liquid
Colour:	yellowish
Odour:	stinging

**Changes in the physical state**

Melting point/freezing point: not applicable

Boiling point or initial boiling point and boiling range:  $> 35 \text{ }^{\circ}\text{C}$

Flash point:  $24 \text{ }^{\circ}\text{C}$

**Explosive properties**

In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits: not determined

Upper explosion limits: not determined

Auto-ignition temperature: not determined

Decomposition temperature: not determined

pH-Value: 5,9

Viscosity / dynamic: (at  $40 \text{ }^{\circ}\text{C}$ ) not determined

Viscosity / kinematic: (at  $20 \text{ }^{\circ}\text{C}$ ) not determined

Water solubility: completely miscible

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**Solubility in other solvents**

not determined

Vapour pressure:  
(at 20 °C)

not determined

Density:

0,9 g/cm<sup>3</sup>

Relative vapour density:

not determined

**9.2. Other information****Information with regard to physical hazard classes**

Oxidizing properties

none.

**Other safety characteristics**

Solvent separation test:

not determined

Solvent content:

not determined

Solid content:

not determined

Evaporation rate:

not determined

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

No information available.

**10.2. Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

Refer to chapter 10.5.

**10.4. Conditions to avoid**

Protect against: UV-radiation/sunlight. heat. Moisture.

In use may form flammable/explosive vapour-air mixture.

Heating causes rise in pressure with risk of bursting.

**10.5. Incompatible materials**

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Strong acid. strong alkalis.

**10.6. Hazardous decomposition products**

Does not decompose when used for intended uses.

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO<sub>2</sub>).**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Toxicokinetics, metabolism and distribution**

No data available.

**Acute toxicity**

Based on available data, the classification criteria are not met.

The product has not been tested.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2550-02-9	Triethoxypropylsilane				

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	oral	LD50 mg/kg	> 5110	Rat	ECHA dossier	OECD Guideline 401
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**Irritation and corrosivity**

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Specific effects in experiment on an animal**

No data available.

**11.2. Information on other hazards****Endocrine disrupting properties**

No data available.

**Further information**

Solvent:

Symptoms: Depression of the central nervous system. Liver and kidney damage. drowsiness. vomiting.

Nausea. Dizziness. unconsciousness. Impaired consciousness. Intoxication. erythema (redness)

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

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
2550-02-9	Triethoxypropylsilane					
	Acute fish toxicity	LC50	80 mg/l	96 h	ECHA dossier	
	Acute algae toxicity	ErC50	> 819 mg/l	72 h	ECHA dossier	
	Acute crustacea toxicity	EC50	21,2 mg/l	48 h	ECHA dossier	
	Crustacea toxicity	NOEC	>= 100 mg/l	21 d	ECHA dossier	
	Acute bacteria toxicity	(EC50	> 100 mg/l)	3 h	ECHA dossier	

**12.2. Persistence and degradability**

The product has not been tested.

**12.3. Bioaccumulative potential**

The product has not been tested.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
2550-02-9	Triethoxypropylsilane	3,1



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**12.4. Mobility in soil**

No data available.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

**12.7. Other adverse effects**

No data available.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

**List of Wastes Code - residues/unused products**

080314 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of printing inks; ink sludges containing hazardous substances; hazardous waste

**List of Wastes Code - used product**

080314 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of printing inks; ink sludges containing hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

080314 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of printing inks; ink sludges containing hazardous substances; hazardous waste

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b><u>14.1. UN number or ID number:</u></b>	UN 1993
<b><u>14.2. UN proper shipping name:</u></b>	FLAMMABLE LIQUID, N.O.S. (Triethoxypropylsilane)
<b><u>14.3. Transport hazard class(es):</u></b>	3
<b><u>14.4. Packing group:</u></b>	III
Hazard label:	3

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Classification code: F1  
 Special Provisions: 274 601  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 Transport category: 3  
 Hazard No: 30  
 Tunnel restriction code: D/E

### Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Triethoxypropylsilane)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 274 601  
 Limited quantity: 5 L  
 Excepted quantity: E1

### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Triethoxypropylsilane)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Marine pollutant: NO  
 Special Provisions: 223, 274, 955  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 EmS: F-E, S-E

### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Triethoxypropylsilane)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Special Provisions: A3  
 Limited quantity Passenger: 10 L  
 Passenger LQ: Y344  
 Excepted quantity: E1  
 IATA-packing instructions - Passenger: 355

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IATA-max. quantity - Passenger:	60 L
IATA-packing instructions - Cargo:	366
IATA-max. quantity - Cargo:	220 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

See section 8.

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

not relevant.

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

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

**Additional information**

Safety Data Sheet according to UK-REACH Regulation

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

UK REACH Appendix XVII, No (mixture): 3, 40

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

**SECTION 16: Other information****Changes**

Rev. 1,0; Initial release: 08.03.2022

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency

EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

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ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
 h: hour  
 LOAEL: Lowest observed adverse effect level  
 LOAEC: Lowest observed adverse effect concentration  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 NOAEL: No observed adverse effect level  
 NOAEC: No observed adverse effect concentration  
 NLP: No-Longer Polymers  
 N/A: not applicable  
 OECD: Organisation for Economic Co-operation and Development  
 PNEC: predicted no effect concentration  
 PBT: Persistent bioaccumulative toxic  
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )  
 REACH: Registration, Evaluation, Authorisation of Chemicals  
 SVHC: substance of very high concern  
 TRGS: Technische Regeln für Gefahrstoffe  
 UN: United Nations  
 VOC: Volatile Organic Compounds

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Skin Irrit. 2; H315	Calculation method

**Relevant H and EUH statements (number and full text)**

H226 Flammable liquid and vapour.  
 H315 Causes skin irritation.

**Further Information**

Classification according to GHS [UK CLP] - Classification procedure:  
 Health hazards: Calculation method.  
 Environmental hazards: Calculation method.  
 Physical hazards: On basis of test data and / or calculated and / or estimated.

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.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*