

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU  
**FabConstruct 3D SCANNING SPRAY (Mattierungsspray) - L500**

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

FabConstruct 3D SCANNING SPRAY (Mattierungsspray) L500, 500ml

Other means of identification

Article number: 33524

Tariff No.: 38249097

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

Relevant identified uses: industrial use

professional use

Sector of use: Solvent based Mattingspray

Uses advised against: consumer use (private households). Do not use for products that are intended for contact with food - exclude food contact.

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

Fabistron GmbH

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Deutschland

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**Further information obtainable from:**

Safety data sheets Mr. Holger Pruefer

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**1.4 24 hours Emergency telephone number**

Vergiftungs-Informationen-Zentrale Freiburg +49 (0) 761 / 192 40

**2. Hazards identification**

**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.3	aerosols	Cat. 1	(Aerosol 1)	H222,H229
3.3	serious eye damage/eye irritation	Cat. 2	(Eye Irrit. 2)	H319
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	Cat. 3	(STOT SE 3)	H336

For full text of H-phrases: see SECTION 16.

**2.2. Label elements**

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word: DANGER

Piktogramme: GHS02, GHS07



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#### Hazard statements

H222 Extremely flammable aerosol.  
H229 Pressurized container: may burst if heated.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

#### 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.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P260 Do not breathe vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 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.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Dispose of contents/container to hazardous or special waste.

#### Additional labelling requirements

Buildup of explosive mixtures possible without sufficient ventilation.

**Hazardous ingredients for labelling:** acetone, propan-2-ol

#### 2.3. Other hazards

There is no additional information.











### 3. Composition/information on ingredients

#### 3.1 Substances

not relevant (mixture)

#### 3.2. Mixtures

Mixture of substances listed below with nonhazardous additions

CAS No	Name of substance		wt	Pictograms
	EC No	REACH Reg. No		
	Classification acc. to 1272/2008/EC			
106-97-8	Butane		25 – < 50 %	 
	203-448-7	01-2119474691-32-xxxx		
	Flam. Gas 1, Press. Gas L ; H220 H280			
74-98-6	Propane		10 – < 25 %	 
	200-827-9	01-2119486944-21-xxxx		
	Flam. Gas 1, Press. Gas L ; H220 H280			
67-64-1	Acetone		10 – < 25 %	 
	200-662-2	01-2119471330-49-xxxx 01-2119498062-37-xxxx		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
67-63-0	Propan-2-ol		10 – < 25 %	 
	200-661-7	01-2119457558-25-xxxx		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
75-28-5	Isobutane		1 – < 5 %	 
	200-857-2	01-2119485395-27-xxxx		
	Flam. Gas 1, Press. Gas L ; H220 H280			

For full text of abbreviations: see SECTION 16.

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## 4. First aid measures

### 4.1. Description of first aid measures

#### **General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### **Following inhalation**

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

#### **Following skin contact**

Wash with plenty of soap and water.

#### **Following eye contact**

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### **Following ingestion**

Not applicable, as aerosol.

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

Narcotic effects.

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

none

## 5. Firefighting measures

### 5.1. Extinguishing media

#### **Suitable extinguishing media**

water spray, BC-powder

#### **Unsuitable extinguishing media**

water jet

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

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

### 5.3. Advice for firefighters

Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Remove undamaged cans from the danger area. If necessary, cool by spraying with water because of bursting. Wear fully protective suit. Wear self-contained breathing apparatus.

## 6. Accidental release measures

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

#### **For non-emergency personnel:**

Remove persons to safety.

#### **For emergency responders:**

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2. Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

**Advices on how to contain a spill**

Covering of drains.

**Other information relating to spills and releases**

Place in appropriate containers for disposal. Ventilate affected area.

**7. Handling and storage**

**7.1. Precautions for safe handling**

**Recommendations**

**Measures to prevent fire as well as aerosol and dust generation**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Prevent from heating up above 50 °C.

**Advice on general occupational hygiene**

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

**Managing of associated risks**

**Storage class (LGK)**

2B

**Flammability hazards**

Do not spray on an open flame or other ignition source. Protect from sunlight.

**Incompatible substances or mixtures**

Separate storage required for storage class: 4.1 A, 4.1 B, 4.2, 4.3, 5.1 A, 5.1 B, 5.2, 6.2, 7.

**Consideration of other advice**

**Packaging compatibilities:** Only packagings which are approved (e.g. acc. to ADR) may be used.

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

No further relevant information available.

**8. Exposure controls/personal protection**

**8.1. Control parameters**

**National limit values**

**Occupational exposure limit values (Workplace Exposure Limits)**

Country	CAS No	Name of agent	Identifier	TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>	Source
DE	106-97-8	Butane	AGW	1000	2400	4000	9600	TRGS 900
DE	74-98-6	Propane	AGW	1000	1800	4000	7200	TRGS 900
DE	67-63-0	Propan-2-ol	AGW	200	500	400	1000	TRGS 900
DE	75-28-5	Isobutane	AGW	1000	2400	4000	9600	TRGS 900
DE	67-64-1	Acetone	AGW	500	1200	1000	2400	TRGS 900
EU	67-64-1	Acetone	IOELV	500	1210			2017/164/EU

**Notation**

**STEL** Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

**TWA** Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours timeweighted average

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**Biological limit values**

Country	Name of agent	Parameter	Notation	Identifier	Value	Source
DE	Propan-2-ol	Acetone		BLV	25 mg/l	TRGS 903
DE	Acetone	Acetone		BLV	80 mg/l	TRGS 903

**Relevant DNELs/DMELs/PNECs and other threshold levels**  
**relevant PNECs of components of the mixture**

CAS No	Name of substance	End-point	Threshold level	Organism	Environmental compartment	Exposure time
67-64-1	Acetone	PNEC	100 mg/l	Microorganisms	Sewage treatment plant (STP)	Short-term (single instance)
67-64-1	Acetone	PNEC	21 mg/l	Aquatic organisms	Water	Intermittent release
67-63-0	Propan-2-ol	PNEC	2.251 mg/l	Microorganisms	Sewage treatment plant (STP)	Short-term (single instance)
67-63-0	Propan-2-ol	PNEC	160 mg/kg	Aquatic organisms	Wasser	Short-term (single instance)

**8.2. Exposure controls**

**Appropriate engineering controls**

General ventilation.

**Individual protection measures (personal protective equipment)**

**Eye/face protection**

Do not spray in eyes. If required use tight-fitting goggles.

**Skin protection**

By designated use no hand protection necessary.

type of material: PVC: polyvinyl chloride

material thickness: > 0,7 mm.

**other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

**Respiratory protection**

By designated use no protection necessary. Apply outdoors or well ventilated areas.

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination.

**9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Appearance**

Physical state:	aerosol (spray aerosol)
Colour:	white
Odour:	solvent like

**Other physical and chemical parameters**

Initial boiling point and boiling range:	Not applicable, as aerosol.*
Flash point:	Not applicable, as aerosol.*
Evaporation rate	Not determined
Flammability (solid, gas)	Flammable aerosol in accordance with GHS criteria
Explosive limits	
- lower explosion limit (LEL)	2 Vol.-%
- upper explosion limit (UEL)	15 Vol.-%

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Vapour pressure	4 bar at 20 °C 7 Pa at 50 °C
Density	0,64 g/cm³ at 20 °C
Water solubility	partly soluble
n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	287 °C
Viscosity	not relevant (aerosol)
Explosive properties	none
Oxidising properties	none

**9.2. Other information**

Solvent content	94,7 %
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\* The finished mixture in an aerosol container is formed after addition of propellant. Several details are not measurable in an hermetic closed, pressurized container.

**10: Stability and reactivity**

**10.1. Reactivity**

Concerning incompatibility: see below „Conditions to avoid“ and „Incompatible materials“. risk of ignition

**10.2. Chemical stability**

See below „Conditions to avoid“.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

Do not spray on an open flame or other ignition source. - Keep away from heat.

**Hints to prevent fire or explosion**

Protect from sunlight.

**Physical stresses which might result in a hazardous situation and have to be avoided**

high temperatures

**10.5. Incompatible materials**

oxidisers.

**10.6. Hazardous decomposition products**

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

Hazardous combustion products: see section 5.

**11. Toxicological information**

**11.1. Information on toxicological effects**

Test data are not available for the complete mixture.

**Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**Classification according to GHS (1272/2008/EC, CLP)**

**Acute toxicity**

Shall not be classified as acutely toxic.

**Skin corrosion/irritation**

Shall not be classified as corrosive/irritant to skin.

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**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

**Summary of evaluation of the CMR properties**

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

**Specific target organ toxicity (STOT)**

**- Specific target organ toxicity - single exposure**

May cause drowsiness or dizziness.

**- Specific target organ toxicity - repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure).

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

## 12. Ecological information

### 12.1. Toxicity

Wassergefährdungsklasse, WGK (water hazard class) (WGK; Germany): 1 (slightly hazardous to water)

**Aquatic toxicity (acute)**

**Aquatic toxicity (acute) of components of the mixture**

CAS No	Name of substance	Endpoint	Value	Species	Exposure time
106-97-8	Butane	LC50	28 mg/l	Fish	96 h
106-97-8	Butane	EC50	7,71 mg/l	Algae	96 h
67-64-1	Acetone	LC50	8.120 mg/l	Fish	96 h
67-63-0	Propan-2-ol	LC50	10.000 mg/l	Fish	96 h
74-98-6	Propane	LC50	28 mg/l	Fish	96 h
74-98-6	Propane	EC50	7,71 mg/l	Algae	96 h
75-28-5	Isobutane	LC50	28 mg/l	Fish	96 h
75-28-5	Isobutane	EC50	7,71 mg/l	Algae	96 h

**Aquatic toxicity (chronic)**

**Aquatic toxicity (chronic) of components of the mixture**

CAS No	Name of substance	Endpoint	Value	Species	Exposure time
67-64-1	Acetone	EC50	61,2 g/l	Microorganisms	30 min

### Biodegradation

The relevant substances of the mixture are readily biodegradable.

### 12.2. Persistence and degradability

**Degradability of components of the mixture**

CAS No	Name of substance	Process	Degradation rate	Time
67-64-1	Acetone	Carbon dioxide generation	90,9 %	28 d
67-63-0	Propan-2-ol	Oxygen depletion	53 %	5 d



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**12.3. Bioaccumulative potential**

Data are not available.

**Bioaccumulative potential of components of the mixture**

CAS No	Name of substance	BCF	Log KOW	BOD5/COD
106-97-8	Butan		1,09 (pH value: 7, 20 °C)	
67-64-1	Aceton		-0,24	
74-98-6	Propan		1,09 (pH value: 7, 20 °C)	
75-28-5	Isobutan		1,09 (pH value: 7, 20 °C)	

**12.4. Mobility in soil**

Data are not available.

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

Data are not available.

**12.6. Other adverse effects**

Data are not available.

**Endocrine disrupting potential**

None of the ingredients are listed.

**13: Disposal considerations**

**13.1. Waste treatment methods**

**Sewage disposal-relevant information**

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

**Waste treatment of containers/packages**

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

**13.2. Relevant provisions relating to waste**

**List of wastes**

15 01 04 Metallic packaging

15 01 10 Packaging containing residues of or contaminated by dangerous substances

16 05 04 Containing hazardous gases in pressure containers (including halons).

**13.3. Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

**14. Transport information**

14.1.	UN number	1950
14.2.	UN proper shipping name	AEROSOLS
14.3.	Transport hazard class(es)	
	Class	2 (gases) (aerosol)
	Subsidiary risk(s)	2.1 (flammability)
14.4.	Packing group	not assigned to a packing group



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- 14.5.** Environmental hazards none (non-environmentally hazardous acc. to the dangerous goods regulations)  
**14.6.** Special precautions for user  
 Provisions for dangerous goods (ADR) should be complied within the premises.  
**14.7.** Transport in bulk according to Annex II of MARPOL and the IBC Code  
 The cargo is not intended to be carried in bulk.  
**14.8. Information for each of the UN Model Regulations**

**Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)**

UN number 1950  
 Proper shipping name AEROSOLS  
 Class 2  
 Classification code 5F  
 Danger label(s) 2.1



Special provisions (SP) 190, 327, 344, 625  
 Excepted quantities (EQ) E0  
 Limited quantities (LQ) 1 L  
 Transport category (TC) 2  
 Tunnel restriction code (TRC) D

**International Maritime Dangerous Goods Code (IMDG)**

UN number 1950  
 Proper shipping name AEROSOLS  
 Class 2.1  
 Danger label(s) 2.1



Special provisions (SP) 63, 190, 277, 327, 344, 959  
 Excepted quantities (EQ) E0  
 Limited quantities (LQ) 1 L  
 EmS F-D, S-U  
 Stowage category -

**International Civil Aviation Organization (ICAO-IATA/DGR)**

UN number 1950  
 Proper shipping name Aerosole, flammable  
 Class 2.1  
 Danger label(s) 2.1



Special provisions (SP) A145, A167  
 Excepted quantities (EQ) E0  
 Limited quantities (LQ) 30 kg

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## 15. Regulatory information

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

#### Relevant provisions of the European Union (EU)

##### Restrictions according to REACH, Annex XVII

None of the ingredients are listed.

##### List of substances subject to authorisation (REACH, Annex XIV)

None of the ingredients are listed.

##### Directive 75/324/EEC relating to aerosol dispensers

##### Classification of the gas/aerosol

##### Kennzeichnung

Extremely flammable

Pressurized container: may burst if heated. Keep out of the reach of children

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking. Do not pierce or burn, even after use. Protect from sunlight.

Do not expose to temperatures exceeding 50 °C

##### Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content

94,7 %

606 g/l

##### Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content

94,7 %

##### Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

#### National regulations (Germany)

##### Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse (WGK)

(water hazard class): 1 (slightly hazardous to water)

#### Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentration	Notation
5.2.5	Organic substances		≥ 25 wt%	0,5 kg/h	50 mg/m <sup>3</sup>	3)

#### Notation

3) A total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m<sup>3</sup>, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

#### Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK): 2 B (aerosol dispensers and lighters)

### 15.2. Chemical Safety Assessment

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

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## 16. Other information

### Abbreviations and acronyms

2017/164/EU.	Comission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.
ADN.	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways).
ADR.	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road).
AGW.	Workplace exposure limit.
BCF.	Bioconcentration factor.
BOD.	Biochemical Oxygen Demand.
CAS.	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances).
CLP.	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
CMR.	Carcinogenic, Mutagenic or toxic for Reproduction.
COD.	Chemical oxygen demand.
DGR.	Dangerous Goods Regulations (see IATA/DGR).
DMEL.	Derived Minimal Effect Level.
DNEL.	Derived No-Effect Level.
EC No.	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union).
EINECS.	European Inventory of Existing Commercial Chemical Substances.
ELINCS.	European List of Notified Chemical Substances.
EmS.	Emergency Schedule.
Eye Dam.	Seriously damaging to the eye.
Eye Irrit.	Irritant to the eye.
Flam. Gas.	Flammable gas.
Flam. Liq.	Flammable liquid.
GHS.	„Globally Harmonized System of Classification and Labelling of Chemicals“ developed by the United Nations.
IATA.	International Air Transport Association.
IATA/DGR.	Dangerous Goods Regulations (DGR) for the air transport (IATA).
ICAO.	International Civil Aviation Organization.
IMDG.	International Maritime Dangerous Goods Code.
IOELV.	Indicative occupational exposure limit value.
LGK.	Lagerklasse (storage class according to TRGS 510, Germany).
Log KOW.	n-Octanol/water.
MARPOL.	International Convention for the Prevention of Pollution from Ships (abbr. of „Marine Pollutant“).
NLP.	No-Longer Polymer.
PBT.	Persistent, Bioaccumulative and Toxic.
PNEC.	Predicted No-Effect Concentration.
Ppm.	Parts per million.
Press. Gas.	Gas under pressure.
REACH.	Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID.	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail).
STEL. S	hort-term exposure limit.
STOT SE.	Specific target organ toxicity - single exposure.
TRGS.	Technische Regeln für GefahrStoffe (technical rules for hazardous substances, Germany).
TRGS 900.	Arbeitsplatzgrenzwerte (TRGS 900).
TRGS 903.	Biologische Grenzwerte (TRGS 903).
TWA.	Time-weighted average.
VOC.	Volatile Organic Compounds.
VPvB.	Very Persistent and very Bioaccumulative.

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**Key literature references and sources for data**

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

**Classification procedure**

Physical and chemical properties: The classification is based on tested mixture.

Health hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**List of relevant phrases (code and full text as stated in chapter 2 and 3)**

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H225 Highly flammable liquid and vapour.
- H229 Pressurized container: may burst if heated.
- H280 Contains gas under pressure; may explode if heated.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.

**More information**

The information in this safety data sheet corresponds to the best of our knowledge at the time of printing. The information should give you clues for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The details are not transferable to other products. Insofar as the product is mixed with other materials, mixed or processed, or subjected to processing, the information in this safety data sheet, unless expressly stated otherwise, can not be based on the so produced new material to be transferred.

(The data for the hazardous ingredients were taken from the last version of the subcontractor's safety data sheet.)