

# Safety Data Sheet

Seite 1 / 22

according to Regulation (EC) No. 1907/2006 (REACH)

MSDS10150

Revision date: 26.8.2016

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

1.1 · Date of compilation: 26.08.2016

· 1.1 Product identifier

· Trade name: **VOC Speedgloss extrafast**

· Article number(s): **50400**

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

Relevant identified uses

Clear coating material, Varnish

Industrial use

Professional use

Uses advised against

Do not use for products which come into contact with the food stuffs

Do not use for private purposes (household)

· Application of the substance / the preparation: Paint related material

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer / Supplier:

**XXX**

Phone: +XXX

Fax: +XXX

· E-mail address of the competent person responsible for the Safety Data Sheet: **XXX@XXX**

· Informing department: **XXX**

· 1.4 Emergency telephone number: **+XXX**

## SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Classification acc. to GHS				
Section	Hazard class	Category	Hazard class and category	Hazard statement
2.6	flammable liquid	3	Flam. Liq. 3	H226
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336

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*for full text of abbreviations: see SECTION 16*

**The most important adverse physicochemical, human health and environmental effects** The product is combustible and can be ignited by potential ignition sources.

## 2.2     **Label elements**

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

Labelling:

**Signal word**             warning

**Pictograms**

**GHS02, GHS07**



**Hazard statements**

**H226**                     Flammable liquid and vapour.

**H336**                     May cause drowsiness or  
                                  dizziness.

**Precautionary statements**

**P210**                     Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**P261**                     Avoid breathing mist/vapours/spray.

**P280**                     Wear protective gloves/protective clothing/eye protection/face protection.

**P303+P361+P353**     IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water/shower.

**P304+P340 P312**     IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

**Supplemental hazard information**

**EUH066**                Repeated exposure may cause skin dryness or cracking.

**Hazardous ingredients for labelling**                     n-butyl acetate

## 2.3     **Other hazards**

*There is no additional information.*

**Results of PBT and vPvB assessment**

*This mixture does not contain any substances that are assessed to be a PBT or a vPvB.*

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### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

not relevant (mixture)

#### 3.2 Mixtures

##### Description of the mixture

<b>Hazardous ingredients acc. to GHS</b>				
<i>Name of substance</i>	<i>Identifier</i>	<i>Wt%</i>	<i>Classification acc. to GHS</i>	<i>Pictograms</i>
<i>n-butyl acetate</i>	CAS No 123-86-4  EC No 204-658-1  Index No 607-025-00-1  REACH Reg. No 01-2119485493-29- xxxx	25 - < 50	Flam. Liq. 3 / H226 STOT SE 3 / H336	 
<i>2-Methoxy-1-methyl-ethyl acetate</i>	CAS No 108-65-6  EC No 203-603-9  Index No 607-195-00-7  REACH Reg. No 01-2119475791-29- xxxx	25 - < 50	Flam. Liq. 3 / H226	
<i>butylglycol acetate</i>	CAS No 112-07-2  EC No 203-933-3  Index No 607-038-00-2  REACH Reg. No 01-2119475112-47- xxxx	1 - < 5	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332	

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#### **SECTION 4: First aid measures**

##### **4.1 Description of first aid measures**

###### **General notes**

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

###### **Following inhalation**

Provide fresh air.

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

###### **Following skin contact**

Take off immediately all contaminated clothing.

Rinse skin with water/shower.

Wash with plenty of soap and water.

###### **Following eye contact**

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.

###### **Following ingestion**

Rinse mouth. Do not induce vomiting.

Get medical advice/attention if you feel unwell.

###### **Notes for the doctor**

none

##### **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

#### **SECTION 5: Firefighting measures**

##### **5.1 Extinguishing media**

###### **Suitable extinguishing media**

water spray, alcohol resistant foam, fire extinguishing powder, carbon dioxide (CO<sub>2</sub>)

###### **Unsuitable extinguishing media**

water jet

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

Hazardous decomposition products: Section 10.

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors.

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

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**Hazardous combustion products**

carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

**5.3 Advice for firefighters**

*In case of fire and/or explosion do not breathe fumes.*

*Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately.*

*Fight fire with normal precautions from a reasonable distance.*

**Special protective equipment for firefighters**

*wear self-contained breathing apparatus*

**SECTION 6: Accidental release measures**

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

**For non-emergency personnel**

*Remove persons to safety.*

*Ventilate affected area.*

*Avoidance of ignition sources.*

*Do not breathe mist/vapours/spray.*

*Do not get in eyes, on skin, or on clothing.*

*Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.*

**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.*

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

**Advices on how to clean up a spill**

*Collect spillage.*

*Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).*

**Appropriate containment techniques**

*Use of adsorbent materials.*

**Other information relating to spills and releases**

*Place in appropriate containers for disposal.*

*Ventilate affected area.*

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#### **6.4 Reference to other sections**

*Hazardous combustion products: see section 5.*

*Personal protective equipment: see section 8.*

*Incompatible materials: see section 10.*

*Disposal considerations: see section 13.*

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

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

*Use local and general ventilation.*

*Keep away from sources of ignition - No smoking.*

*Take precautionary measures against static discharge.*

*Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.*

*Ground/bond container and receiving equipment.*

*Use explosion-proof electrical/ventilating/lighting equipment.*

*Use only non-sparking tools.*

##### **Specific notes/details**

*Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.*

*Vapours are heavier than air, spread along floors and form explosive mixtures with air.*

*Vapours may form explosive mixtures with air.*

##### **Measures to protect the environment**

*Avoid release to the environment.*

##### **Advice on general occupational hygiene**

*Do not eat, drink and smoke in work areas.*

*Remove contaminated clothing and protective equipment before entering eating areas.*

*Do not breathe mist/vapours/spray.*

*Do not get in eyes, on skin, or on clothing.*

*Wash hands after use.*

*Preventive skin protection (barrier creams/ointments) is recommended.*

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

##### **Explosive atmospheres**

*Keep container tightly closed and in a well-ventilated place.*

*Use local and general ventilation.*

*Keep cool.*

*Protect from sunlight.*

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**Flammability hazards**

Keep away from sources of ignition - No smoking.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.

Ground/bond container and receiving equipment.

Protect from sunlight.

**Incompatible substances or mixtures**

Incompatible materials: see section 10.

**Protect against external exposure, such as**

heat

**Consideration of other advice**

Keep away from food, drink and animal feedingstuffs.

**Ventilation requirements**

Provision of sufficient ventilation.

**Packaging compatibilities**

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

**7.3 Specific end use(s)**

No information available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

<b>Occupational exposure limit values (Workplace Exposure Limits)</b>									
<b>Coun-try</b>	<b>Name of agent</b>	<b>CAS No</b>	<b>Nota-tion</b>	<b>Identi-fier</b>	<b>TWA [ppm]</b>	<b>TWA [mg/m³]</b>	<b>STEL [ppm]</b>	<b>STEL [mg/m³]</b>	<b>Source</b>
EU	2-methoxy-1-methylethyl acet-ate	108-65-6		IOELV	50	275	100	550	2000/39/EC
EU	2-butoxyethyl acetate	112-07-2		IOELV	20	133	50	333	2000/39/EC
GB	1-methoxy-2-pro-pyl acetate	108-65-6		WEL	50	274	100	548	EH40/2005
GB	2-butoxyethyl acetate	112-07-2		WEL	20	133	50	332	EH40/2005
GB	butyl acetate	123-86-4		WEL	150	724	200	966	EH40/2005

**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  
time-weighted average

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<b>Relevant DNELs of components of the mixture</b>						
<i>Name of substance</i>	<i>CAS No</i>	<i>End-point</i>	<i>Threshold level</i>	<i>Protection goal, route of exposure</i>	<i>Used in</i>	<i>Exposure time</i>
<i>n-butyl acetate</i>	<i>123-86-4</i>	<i>DNEL</i>	<i>300 mg/m<sup>3</sup></i>	<i>human, inhalatory</i>	<i>worker (industry)</i>	<i>chronic - local effects</i>
<i>n-butyl acetate</i>	<i>123-86-4</i>	<i>DNEL</i>	<i>11 mg/cm<sup>3</sup></i>	<i>human, dermal</i>	<i>worker (industry)</i>	<i>chronic - systemic effects</i>
<i>2-Methoxy-1-methylethyl acetate</i>	<i>108-65-6</i>	<i>DNEL</i>	<i>796 mg/kg</i>	<i>human, dermal</i>	<i>worker (industry)</i>	<i>chronic - systemic effects</i>
<i>2-Methoxy-1-methylethyl acetate</i>	<i>108-65-6</i>	<i>DNEL</i>	<i>275 mg/m<sup>3</sup></i>	<i>human, inhalatory</i>	<i>worker (industry)</i>	<i>chronic - systemic effects</i>
<i>2-Methoxy-1-methylethyl acetate</i>	<i>108-65-6</i>	<i>DNEL</i>	<i>550 mg/m<sup>3</sup></i>	<i>human, inhalatory</i>	<i>worker (industry)</i>	<i>acute - local effects</i>
<i>butylglycol acetate</i>	<i>112-07-2</i>	<i>DNEL</i>	<i>133 mg/m<sup>3</sup></i>	<i>human, inhalatory</i>	<i>worker (industry)</i>	<i>chronic - systemic effects</i>
<i>butylglycol acetate</i>	<i>112-07-2</i>	<i>DNEL</i>	<i>333 mg/m<sup>3</sup></i>	<i>human, inhalatory</i>	<i>worker (industry)</i>	<i>acute - local effects</i>
<i>butylglycol acetate</i>	<i>112-07-2</i>	<i>DNEL</i>	<i>169 mg/kg bw/day</i>	<i>human, dermal</i>	<i>worker (industry)</i>	<i>chronic - systemic effects</i>
<i>butylglycol acetate</i>	<i>112-07-2</i>	<i>DNEL</i>	<i>120 mg/kg bw/day</i>	<i>human, dermal</i>	<i>worker (industry)</i>	<i>acute - systemic effects</i>

<b>Relevant PNECs of components of the mixture</b>				
<i>Name of substance</i>	<i>CAS No</i>	<i>Endpoint</i>	<i>Threshold level</i>	<i>Environmental compartment</i>
<i>n-butyl acetate</i>	<i>123-86-4</i>	<i>PNEC</i>	<i>0.0981 mg/cm<sup>3</sup></i>	<i>marine sediment</i>
<i>n-butyl acetate</i>	<i>123-86-4</i>	<i>PNEC</i>	<i>0.09 mg/cm<sup>3</sup></i>	<i>soil</i>
<i>n-butyl acetate</i>	<i>123-86-4</i>	<i>PNEC</i>	<i>0.018 mg/cm<sup>3</sup></i>	<i>marine water</i>
<i>n-butyl acetate</i>	<i>123-86-4</i>	<i>PNEC</i>	<i>0.18 mg/cm<sup>3</sup></i>	<i>freshwater</i>
<i>n-butyl acetate</i>	<i>123-86-4</i>	<i>PNEC</i>	<i>0.981 mg/cm<sup>3</sup></i>	<i>freshwater sediment</i>
<i>n-butyl acetate</i>	<i>123-86-4</i>	<i>PNEC</i>	<i>35.6 mg/cm<sup>3</sup></i>	<i>sewage treatment plant (STP)</i>
<i>2-Methoxy-1-methylethyl acetate</i>	<i>108-65-6</i>	<i>PNEC</i>	<i>0.635 mg/l</i>	<i>freshwater</i>
<i>2-Methoxy-1-methylethyl acetate</i>	<i>108-65-6</i>	<i>PNEC</i>	<i>0.064 mg/l</i>	<i>marine water</i>
<i>2-Methoxy-1-methylethyl acetate</i>	<i>108-65-6</i>	<i>PNEC</i>	<i>6.35 mg/l</i>	<i>water</i>
<i>2-Methoxy-1-methylethyl acetate</i>	<i>108-65-6</i>	<i>PNEC</i>	<i>100 mg/l</i>	<i>sewage treatment plant (STP)</i>

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<b>Relevant PNECs of components of the mixture</b>				
<i>Name of substance</i>	<i>CAS No</i>	<i>Endpoint</i>	<i>Threshold level</i>	<i>Environmental compartment</i>
2-Methoxy-1-methylethyl acetate	108-65-6	PNEC	3.29 mg/kg	freshwater sediment
2-Methoxy-1-methylethyl acetate	108-65-6	PNEC	0.329 mg/kg	marine sediment
2-Methoxy-1-methylethyl acetate	108-65-6	PNEC	0.29 mg/kg	soil
butylglycol acetate	112-07-2	PNEC	0.304 mg/l	freshwater
butylglycol acetate	112-07-2	PNEC	0.03 mg/l	marine water
butylglycol acetate	112-07-2	PNEC	0.56 mg/l	water
butylglycol acetate	112-07-2	PNEC	90 mg/l	sewage treatment plant (STP)
butylglycol acetate	112-07-2	PNEC	2.03 mg/kg	freshwater sediment
butylglycol acetate	112-07-2	PNEC	0.203 mg/kg	marine sediment
butylglycol acetate	112-07-2	PNEC	0.415 mg/kg	soil

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

General ventilation.

**Individual protection measures (personal protective equipment)****Eye/face protection**

Wear eye/face protection.

**Hand protection**

<i>Material</i>	<i>Material thickness</i>	<i>Breakthrough times of the glove material</i>
this information is not available	this information is not available	this information is not available

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

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.

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**Other protection measures**

Protective clothing against liquid chemicals.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

Type: A (against organic gases and vapours with a boiling point of  $> 65^{\circ}\text{C}$ , colour code: Brown).**Environmental exposure controls**

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

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

Physical state	liquid
Form	fluid
Colour	colourless
Odour	solvent-like
Odour threshold	these information are not

**Other safety parameters**

pH (value)	these information are not available these
Melting point/freezing point	information are not available these
Initial boiling point and boiling range	information are not available $23^{\circ}\text{C}$
Flash point	these information are not available not
Evaporation rate	relevant
Flammability (solid, gas)	(fluid)

**Explosive limits**

Lower explosion limit (LEL)	these information are not available these
Upper explosion limit (UEL)	information are not available $\sim 1 \text{ g/cm}^3$
Vapour pressure	at $20^{\circ}\text{C}$
Density	these information are not available $\sim 1$
Vapour density	at $20^{\circ}\text{C}$ (water = 1)
Relative density	

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**Solubility(ies)**

Water solubility not miscible in any proportion

**Partition coefficient**

n-octanol/water (log KOW) these information are not available

Auto-ignition temperature 315 °C

Relative self-ignition temperature for solids not relevant  
 (Fluid)

Decomposition temperature these information are not available

**Viscosity**

Kinematic viscosity ~ 25 - 30 s/DIN 4mm at 20 °C

Dynamic viscosity these information are not available

Explosive properties not explosive

Oxidising properties shall not be classified as oxidising

**9.2 Other information**

Temperature class (EU, acc. to ATEX) T2  
(maximum permissible surface temperature on the equip-ment:  
 300°C)

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

Risk of ignition.

If heated:

risk of ignition

**10.2 Chemical stability**

See below "Conditions to avoid".

**10.3 Possibility of hazardous reactions**

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

**10.4 Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.

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Use explosion-proof electrical/ventilating/lighting equipment.

Use only non-sparking tools.

### 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.

## SECTION 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

<i>Acute toxicity of components of the mixture</i>						
<i>Name of substance</i>	<i>CAS No</i>	<i>Exposure route</i>	<i>Endpoint</i>	<i>Value</i>	<i>Species</i>	<i>Method</i>
<i>n-butyl acetate</i>	123-86-4	<i>inhalation: vapour</i>	<i>LC50</i>	<i>&gt;21 mg/l/4h</i>	<i>rat</i>	
<i>n-butyl acetate</i>	123-86-4	<i>oral</i>	<i>LD50</i>	<i>13,100 mg/kg</i>	<i>rat</i>	
<i>n-butyl acetate</i>	123-86-4	<i>oral</i>	<i>LD50</i>	<i>12,789 mg/kg</i>	<i>rat, male</i>	<i>OECD 423</i>
<i>n-butyl acetate</i>	123-86-4	<i>oral</i>	<i>LD50</i>	<i>10,760 mg/kg</i>	<i>rat, female</i>	<i>OECD 423</i>
<i>n-butyl acetate</i>	123-86-4	<i>dermal</i>	<i>LD50</i>	<i>17,600 mg/kg</i>	<i>rabbit</i>	
<i>n-butyl acetate</i>	123-86-4	<i>dermal</i>	<i>LD50</i>	<i>&gt;14,112 mg/kg</i>	<i>rabbit</i>	<i>OECD 402</i>
<i>2-Methoxy-1-methylethyl acetate</i>	108-65-6	<i>inhalation: vapour</i>	<i>LC50</i>	<i>35.7 mg/l/4h</i>	<i>rat</i>	
<i>2-Methoxy-1-methylethyl acetate</i>	108-65-6	<i>oral</i>	<i>LD50</i>	<i>8,532 mg/kg</i>	<i>rat, male</i>	<i>EPA OPP 81-1</i>
<i>2-Methoxy-1-methylethyl acetate</i>	108-65-6	<i>oral</i>	<i>LD50</i>	<i>&gt;10,000 mg/kg</i>	<i>rat, female</i>	<i>EPA OPP 81-1</i>
<i>2-Methoxy-1-methylethyl acetate</i>	108-65-6	<i>oral</i>	<i>LD50</i>	<i>5,155 mg/kg</i>	<i>rat, female</i>	<i>OECD 401</i>

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<i>Name of substance</i>	<i>CAS No</i>	<i>Exposure route</i>	<i>Endpoint</i>	<i>Value</i>	<i>Species</i>	<i>Method</i>
2-Methoxy-1-methylethyl acetate	108-65-6	oral	LD50	6,190 mg/kg	rat	OECD 401
2-Methoxy-1-methylethyl acetate	108-65-6	dermal	LD50	>2,000 mg/kg	rat	OECD 402
2-Methoxy-1-methylethyl acetate	108-65-6	dermal	LD50	>5,000 mg/kg	rabbit	OECD 402
butylglycol acetate	112-07-2	oral	LD50	1,880 mg/kg	rat	OECD 401
butylglycol acetate	112-07-2	dermal	LD50	1,500 mg/kg	rabbit	
butylglycol acetate	112-07-2	inhalation: vapour	LC0	>2.66 mg/l/4h	rat	OECD 403

**Skin corrosion/irritation**

Shall not be classified as corrosive/irritant to skin.

**The classification criteria for this hazard class are not met**

The concentration of substances with a skin corrosion/irritation is below the lowest limits which result in the classification of the mixture as dangerous.

**Serious eye damage/eye irritation**

Shall not be classified as seriously damaging to the eye or eye irritant.

**The classification criteria for this hazard class are not met**

The concentration of substances - with a skin corrosion/irritation or with a serious eye damage/eye irritation - is below the lowest limits which result in the classification of the mixture as dangerous.

**Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

**The classification criteria for this hazard class are not met**

The mixture does not contain a substance with a respiratory or skin sensitisation above its concentration limit.

**Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

**Carcinogenicity**

Shall not be classified as carcinogenic.

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**Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

**Summary of evaluation of the CMR properties****The classification criteria for this hazard classes are not met**

The mixture does not contain a substance with a CMR effect above its concentration limit.

**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).

The mixture does not contain a substance with a specific target organ toxic effect - repeated exposure - above its concentration limit.

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

**The classification criteria for this hazard classes are not met**

The mixture does not contain an identified compound presenting an aspiration hazard.

**Other information**

Repeated exposure may cause skin dryness or cracking.

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity (acute)**

Test data are not available for the complete mixture.

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

<b>Aquatic toxicity (acute) of components of the mixture</b>						
<b>Name of substance</b>	<b>CAS No</b>	<b>Endpoint</b>	<b>Value</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time</b>
<i>n</i> -butyl acetate	123-86-4	LC50	18 mg/l	fathead minnow (Pimephales promelas)	OECD 203	96 h
<i>n</i> -butyl acetate	123-86-4	EC50	44 mg/l	daphnia	OECD 202	48 h
2-Methoxy-1-methylethyl acetate	108-65-6	LC50	>100 mg/l	rainbow trout (Oncorhynchus mykiss)	OECD 203	96 h
2-Methoxy-1-methylethyl acetate	108-65-6	EC50	>500 mg/l	daphnia magna	OECD 202	48 h
2-Methoxy-1-methylethyl acetate	108-65-6	ErC50	>1,000 mg/l	algae (pseudokirchneriella subcapitata)	OECD 201	96 h

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<b>Aquatic toxicity (acute) of components of the mixture</b>						
<b>Name of substance</b>	<b>CAS No</b>	<b>Endpoint</b>	<b>Value</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time</b>
butylglycol acetate	112-07-2	LC50	<40 mg/l	rainbow trout ( <i>On-corhynchus mykiss</i> )	OECD 203	96 h
butylglycol acetate	112-07-2	EC50	37 mg/l	daphnia magna	DIN 38 412 part 11	48 h
butylglycol acetate	112-07-2	EC50	145 mg/l	daphnia magna	DIN 38 412 part 11	24 h
butylglycol acetate	112-07-2	ErC50	1,570 mg/l	algae ( <i>pseudokirchneriella subcapitata</i> )	ISO 8692	72 h
butylglycol acetate	112-07-2	EbC50	520 mg/l	algae ( <i>pseudokirchneriella subcapitata</i> )	ISO 8692	72 h

**Aquatic toxicity (chronic)**

Test data are not available for the complete mixture.

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

<b>Aquatic toxicity (chronic) of components of the mixture</b>						
<b>Name of substance</b>	<b>CAS No</b>	<b>Endpoint</b>	<b>Value</b>	<b>Species</b>	<b>Method</b>	<b>Exposure time</b>
2-Methoxy-1-methylethyl acetate	108-65-6	LC50	63.5 mg/l	japanese ricefish/ medaka ( <i>Oryzias latipes</i> )	OECD 204	14 d
2-Methoxy-1-methylethyl acetate	108-65-6	EC50	>100 mg/l	daphnia magna	OECD Guideline 202, part 2	21 d
2-Methoxy-1-methylethyl acetate	108-65-6	NOEC	47.5 mg/l	japanese ricefish/ medaka ( <i>Oryzias latipes</i> )	OECD 204	14 d
2-Methoxy-1-methylethyl acetate	108-65-6	NOEC	1,000 mg/l	algae ( <i>pseudokirchneriella subcapitata</i> )	OECD 201	72 h
2-Methoxy-1-methylethyl acetate	108-65-6	LOEC	>1,000 mg/l	algae ( <i>pseudokirchneriella subcapitata</i> )	OECD 201	72 h

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**12.2 Persistence and degradability Degradability***of components of the mixture*

<b>Degradability of components of the mixture</b>					
<i>Name of substance</i>	<i>CAS No</i>	<i>Process</i>	<i>Degradation rate</i>	<i>Time</i>	<i>Method</i>
<i>n-butyl acetate</i>	<i>123-86-4</i>	<i>oxygen depletion</i>	<i>83 %</i>	<i>28 d</i>	<i>OECD 301 D</i>
<i>2-Methoxy-1-methylethyl acetate</i>	<i>108-65-6</i>	<i>carbon dioxide generation</i>	<i>90 %</i>	<i>28 d</i>	<i>OECD 301F</i>
<i>2-Methoxy-1-methylethyl acetate</i>	<i>108-65-6</i>	<i>oxygen depletion</i>	<i>60 %</i>	<i>5.9 d</i>	<i>OECD 301F</i>
<i>2-Methoxy-1-methylethyl acetate</i>	<i>108-65-6</i>	<i>DOC removal</i>	<i>99 %</i>	<i>28 d</i>	<i>OECD 301F</i>
<i>butylglycol acetate</i>	<i>112-07-2</i>	<i>oxygen depletion</i>	<i>88 %</i>	<i>28 d</i>	

**Biodegradation**

The relevant substances of the mixture are readily biodegradable. **Persistence**

Data are not available.

**12.3 Bioaccumulative potential**

Data are not available.

**Bioaccumulative potential of components of the mixture**

<b>Bioaccumulative potential of components of the mixture</b>			
<i>Name of substance</i>	<i>CAS No</i>	<i>BCF</i>	<i>Log KOW</i>
<i>n-butyl acetate</i>	<i>123-86-4</i>		<i>2.3 (pH value: 7, 25 °C)</i>
<i>2-Methoxy-1-methylethyl acetate</i>	<i>108-65-6</i>		<i>1.2 (pH value: 6.8, 20 °C)</i>
<i>butylglycol acetate</i>	<i>112-07-2</i>		<i>1.51 (pH value: 7, 25 °C)</i>

**12.4 Mobility in soil**

Data are not available.

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**12.5 Results of PBT and vPvB assessment**

*This mixture does not contain any substances that are assessed to be a PBT or a vPvB.*

**12.6 Other adverse effects**

*Data are not available.*

**Endocrine disrupting potential**

*None of the ingredients are listed.*

**Remarks**

*Water hazard class - WHC (Wassergefährdungsklasse): 1 (Slightly hazardous to water)*

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

*This material and its container must be disposed of as hazardous waste.*

**Sewage disposal-relevant information**

*Do not empty into drains.*

**Waste treatment of containers/packagings**

*It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.*

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

**Remarks**

*Please consider the relevant national or regional provisions.*

**SECTION 14: Transport information**

<b>14.1</b>	<b>UN number</b>	1263
<b>14.2</b>	<b>UN proper shipping name</b>	PAINT
<b>14.3</b>	<b>Transport hazard class(es)Class</b>	
	<b>Packing group Environmental</b>	3
<b>14.4</b>	<b>hazards</b>	III
<b>14.5</b>		non-environmentally hazardous acc. to the dangerous goods regulations
<b>14.6</b>	<b>Special precautions for user</b>	
		<i>Provisions for dangerous goods (ADR) should be complied within the premises.</i>
<b>14.7</b>	<b>Transport in bulk according to Annex II of MARPOL and the IBC Code.</b>	
		<i>The cargo is not intended to be carried in bulk.</i>


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**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	1263
Proper shipping name Class	UN1263, PAINT, 3, III, (D/E), special provision 640E 3
Classification code	F1
Packing group	III
Danger label(s)	3
	
Special provisions (SP) Excepted	163, 367, 640E, 650
quantities (EQ) Limited quantities	E1
(LQ) Transport category (TC)	5 L
Tunnel restriction code (TRC)	3.
Hazard identification No	D/E
Emergency Action Code	30
	3YE

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

UN number	1263
Proper shipping name Class	UN1263, PAINT, 3, III, 23°C c.c. 3
Packing group	III
Danger label(s)	3
	
Special provisions (SP)	163, 223, 955
Excepted quantities (EQ)	E1
Limited quantities (LQ) EmS	5 L
Stowage category	F-E, S-E
	A

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

	1263
UN number	UN1263, Paint, 3, III 3
Proper shipping name Class	III
Packing group	3
Danger label(s)	
	A3, A72
Special provisions (SP)	E1
Excepted quantities (EQ)	10 L
Limited quantities (LQ)	

**SECTION 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**

3.

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

none of the ingredients are listed

**Seveso Directive**

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
P5c	flammable liquids (cat. 2, 3)	5,000 50,000	51)

**Notation**

51) flammable liquids, categories 2 or 3 not covered by P5a and P5b

**Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II**

none of the ingredients are listed

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

none of the ingredients are listed

**Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)**

none of the ingredients are listed

**Regulation 98/2013/EU on the marketing and use of explosives precursors**

none of the ingredients are listed

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**Störfall-Verordnung - 12. BImSchV (Hazardous Incident Ordinance)**

No	Dangerous substance/hazard categories	Qualifying quantity (tonnes)	Notes
6	flammable	5,000                      50,000	22)

**Notation**

22) flammable liquids: substances and preparations having a flash point equal to or greater than 21 °C and less than or equal to 55 °C (risk phrase R 10), supporting combustion

**15.2 Chemical Safety Assessment** Information on this

property is not available.

**SECTION 16: Other information**

**Abbreviations and acronyms**

<b>Abbreviations and acronyms</b>	
<b>Abbr.</b>	<b>Descriptions of used abbreviations</b>
2000/39/EC	Comission Directive establishing a first list of indicative occupational exposure limit values in imple-mentation of Council Directive 98/24/EC
Acute Tox.	acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de nav-igation 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)
BCF	BioConcentration Factor
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical sub-stances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DGR	Dangerous Goods Regulations (see IATA/DGR)
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)

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<b>Abbreviations and acronyms</b>	
<b>Abbr.</b>	<b>Descriptions of used abbreviations</b>
<i>EH40/2005</i>	<i>EH40/2005 Workplace exposure limits (<a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a>)</i>
<i>EINECS</i>	<i>European Inventory of Existing Commercial Chemical Substances</i>
<i>ELINCS</i>	<i>European List of Notified Chemical Substances</i>
<i>EmS</i>	<i>Emergency Schedule</i>
<i>Flam. Liq.</i>	<i>flammable liquid</i>
<i>GHS</i>	<i>"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations</i>
<i>IATA</i>	<i>International Air Transport Association</i>
<i>IATA/DGR</i>	<i>Dangerous Goods Regulations (DGR) for the air transport (IATA)</i>
<i>ICAO</i>	<i>International Civil Aviation Organization</i>
<i>IMDG</i>	<i>International Maritime Dangerous Goods Code</i>
<i>index No</i>	<i>the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008</i>
<i>IOELV</i>	<i>indicative occupational exposure limit value</i>
<i>log KOW</i>	<i>n-octanol/water</i>
<i>MARPOL</i>	<i>International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")</i>
<i>NLP</i>	<i>No-Longer Polymer</i>
<i>PBT</i>	<i>Persistent, Bioaccumulative and Toxic</i>
<i>PNEC</i>	<i>Predicted No-Effect Concentration</i>
<i>ppm</i>	<i>parts per million</i>
<i>REACH</i>	<i>Registration, Evaluation, Authorisation and Restriction of Chemicals</i>
<i>RID</i>	<i>Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)</i>
<i>STEL</i>	<i>short-term exposure limit</i>
<i>STOT SE</i>	<i>specific target organ toxicity - single exposure</i>
<i>TWA</i>	<i>time-weighted average</i>
<i>vPvB</i>	<i>very Persistent and very Bioaccumulative</i>
<i>WEL</i>	<i>workplace exposure limit</i>

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**Key literature references and sources for data**

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

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

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

**Classification procedure**

Physical and chemical properties.

Health hazards.

Environmental 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)**

<b>List of relevant phrases (code and full text as stated in chapter 2 and 3)</b>	
<b>Code</b>	<b>Text</b>
H226	flammable liquid and vapour
H302	harmful if swallowed
H312	harmful in contact with skin
H332	harmful if inhaled
H336	may cause drowsiness or dizziness

**· Department issuing MSDS:**

XXX

Phone: +XXX

Fax: +XXX

**Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.