

## Safety Data Sheet - Issuing date : 16/09/2014, Rev.4

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

Trade name/designation : TOUCH UP STICK

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

Specific use(s) : Paint

**1.3. Details of the supplier of the safety data sheet**Company: : INVER S.p.A  
VIA DI CORTICELLA, 205 -40128 BOLOGNA - ITALY  
TEL: +39 051 6380411 Fax: +39 051 322000

Competent person responsible for the safety data sheet: spp@inver.com

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****2.1.1. Classification according to Regulation (EU) 1272/2008**

CLP-Classification : This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Flam. Liq. 3 H226  
Skin Irrit. 2 H315  
Eye Dam. 1 H318  
STOT SE 3 H336

Full text of H-phrases: see section 16

**2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Classification : The mixture is classified as dangerous in accordance with Directive 1999/45/EC.

Xi; R36  
R10  
R66  
R67

Full text of R-phrases: see section 16

**2.2. Label elements****2.2.1. Labelling according to Regulation (EU) 1272/2008**

Hazard pictograms :

Signal word  
Contains: Danger  
: n-butyl acetate  
butan-1-ol  
Naphtha (petroleum), hydrodesulfurized heavy

Hazard statements

: H226 - Flammable liquid and vapour.  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
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.

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.

P310 - Immediately call a POISON CENTER/doctor/.

P501 - Dispose of contents/ container to an approved waste disposal plant.

Extra phrases : EUH066 - Repeated exposure may cause skin dryness or cracking.

### 2.2.2. Labelling according to Directives (67/548 - 1999/45)

Not relevant

### 2.3. Other hazards

Other hazards : Vapours can form explosive mixtures with air.  
PBT /vPvB data :  
This information is not available.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
N-butyl acetate	(CAS No.) 123-86-4 (EC No) 204-658-1 (EC Index) 607-025-00-1 (REACH-no) 01-2119485493-29	35 - 50	R10 R66 R67
2-methoxy-1-methylethyl acetate	(CAS No.) 108-65-6 (EC No) 203-603-9 (EC Index) 607-195-00-7	5 - 10	R10
Xylene	(CAS No.) 1330-20-7 (EC No) 215-535-7 (EC Index) 601-022-00-9	5 - 10	R10 Xn; R20/21 Xi; R38
butan-1-ol	(CAS No.) 71-36-3 (EC No) 200-751-6 (EC Index) 603-004-00-6	7 - 10	R10 Xn; R22 Xi; R41 Xi; R37/38 R67
Naphtha (petroleum), hydrodesulfurized heavy	(CAS No.) 64742-82-1 (EC No) 265-185-4 (EC Index) 649-330-00-2	1 - 2,5	F+; R12 Xn; R65 Xi; R38 N; R51/53 R67
1,2,4-trimethylbenzene	(CAS No.) 95-63-6 (EC No) 202-436-9 (EC Index) 601-043-00-3	0,25 - 1	R10 Xn; R20 Xi; R36/37/38 N; R51/53

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N-butyl acetate	(CAS No.) 123-86-4 (EC No) 204-658-1 (EC Index) 607-025-00-1 (REACH-no) 01-2119485493-29	35 - 50	Flam. Liq. 3, H226 STOT SE 3, H336
2-methoxy-1-methylethyl acetate	(CAS No.) 108-65-6 (EC No) 203-603-9 (EC Index) 607-195-00-7	5 - 10	Flam. Liq. 3, H226

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Xylene	(CAS No.) 1330-20-7 (EC No) 215-535-7 (EC Index) 601-022-00-9	5 - 10	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315
butan-1-ol	(CAS No.) 71-36-3 (EC No) 200-751-6 (EC Index) 603-004-00-6	7 - 10	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336
Naphtha (petroleum), hydrodesulfurized heavy	(CAS No.) 64742-82-1 (EC No) 265-185-4 (EC Index) 649-330-00-2	1 - 2,5	Flam. Liq. 1, H224 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411
1,2,4-trimethylbenzene	(CAS No.) 95-63-6 (EC No) 202-436-9 (EC Index) 601-043-00-3	0,25 - 1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Aquatic Chronic 2, H411

Full text of R-, H- and H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation	: Provide fresh air. Put victim at rest, cover with a blanket and keep warm. If breathing is irregular or stopped, administer artificial respiration. Get medical advice/attention.
Skin contact	: Wash with plenty of water/. Remove contaminated, saturated clothing immediately. Wash contaminated clothing before reuse. When in doubt or if symptoms are observed, get medical advice.
Eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical advice/attention.
Ingestion	: Rinse mouth. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Get medical advice/attention.
Additional advice	: First aider: Pay attention to self-protection! See also section 8 . Never give anything by mouth to an unconscious person or a person with cramps. Show this safety data sheet to the doctor in attendance. Treat symptomatically. When in doubt or if symptoms are observed, get medical advice.

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

Inhalation	: Vapours may cause drowsiness and dizziness. Inhalation of high vapour concentrations can cause CNS-depression and narcosis.
Skin contact	: Irritating to skin. Repeated exposure may cause skin dryness or cracking.
Eye contact	: Irritating to eyes. Causes serious eye irritation.
Ingestion	: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

No data available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray, alcohol resistant foam, Carbon dioxide, Dry extinguishing
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powder

Extinguishing media which shall not be used for safety reasons : Strong water jet .

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

Fire hazard : Flammable liquid and vapour.  
Specific hazards : In use, may form flammable/explosive vapour-air mixture. Vapours are heavier than air and may spread along floors. Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode. The pressure in sealed containers can increase under the influence of heat. Burning produces noxious and toxic fumes. Hazardous decomposition products CO<sub>x</sub>, NO<sub>x</sub>. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose according to legislation.

### **5.3. Advice for firefighters**

Advice for firefighters : Special protective equipment for firefighters. . In case of fire: Wear self-contained breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers.

## **SECTION 6: Accidental release measures**

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

For non-emergency personnel : Evacuate area.  
Provide adequate ventilation.  
Use personal protective equipment as required.  
Reference to other sections: 8.  
Avoid contact with skin, eyes and clothes.  
Do not breathe vapour/spray.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.  
Use only non-sparking tools.  
For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place.

### **6.2. Environmental precautions**

Environmental precautions : Do not allow to enter into surface water or drains.

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

Methods for cleaning up : Stop leak if safe to do so.  
Dam up.  
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Collect in closed and suitable containers for disposal.  
Clean contaminated areas thoroughly.  
Dispose of waste product or used containers according to local regulations.

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

Personal protection equipment: see section 8  
Disposal: see section 13.

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

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

Handling : Provide adequate ventilation.  
Use personal protective equipment as required.  
Personal protection equipment: see section 8  
Avoid contact with skin, eyes and clothes.  
Do not breathe vapour/spray.

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

No smoking.

Take precautionary measures against static discharges.

Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH value, time).

Take any precaution to avoid mixing with incompatible materials. After use replace the closing cap immediately.

Advices on general occupational hygiene : Keep good industrial hygiene. Wash hands and face before breaks and immediately after handling of the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Take off contaminated clothing.

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

Storage : Storage of flammable liquids .  
 Keep container tightly closed in a cool, well-ventilated place.  
 Keep at temperatures between 0 and 35 °C.  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Protect from sunlight. Do not store near or with any of the incompatible materials listed in section 10.

Packaging material : Keep/Store only in original container.  
 Unsuitable materials :  
 Use of plastic materials

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

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

Exposure limit values :

<b>N-butyl acetate (123-86-4)</b>		
Austria	MAK (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup> (all isomers except tert-Butyl acetate)
Austria	MAK (ppm)	100 ppm (all isomers except tert-Butyl acetate)
Austria	MAK Short time value (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup> (all isomers except tert-Butyl acetate)
Austria	MAK Short time value (ppm)	100 ppm (all isomers except tert-Butyl acetate)
Belgium	Limit value (mg/m <sup>3</sup> )	723 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	150 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	964 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	200 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	724 mg/m <sup>3</sup>
Croatia	GVI (granična vrijednost izloženosti) (ppm)	150 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	966 mg/m <sup>3</sup>
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	200 ppm
France	VLE (mg/m <sup>3</sup> )	940 mg/m <sup>3</sup>
France	VLE (ppm)	200 ppm
France	VME (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
France	VME (ppm)	150 ppm

<b>N-butyl acetate (123-86-4)</b>		
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup> (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	62 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Greece	OEL TWA (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	150 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	200 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	150 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	200 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Spain	VLA-ED (mg/m <sup>3</sup> )	724 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	150 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	965 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	200 ppm
Switzerland	VLE (mg/m <sup>3</sup> )	960 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	200 ppm
Switzerland	VME (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup>
Switzerland	VME (ppm)	100 ppm
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	724 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	150 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	966 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	200 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	150 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	720 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	150 ppm
Finland	HTP-arvo (15 min)	960 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	200 ppm
Hungary	AK-érték	950 mg/m <sup>3</sup>
Hungary	CK-érték	950 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	710 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	150 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	200 ppm
Poland	NDS (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	715 mg/m <sup>3</sup> (regulated under Butyl acetate)
Romania	OEL TWA (ppm)	150 ppm (regulated under Butyl acetate)
Romania	OEL STEL (mg/m <sup>3</sup> )	950 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	200 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	100 ppm
Slovakia	NPHV (Hraničná) (mg/m <sup>3</sup> )	700 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	100 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	700 mg/m <sup>3</sup>

<b>N-butyl acetate (123-86-4)</b>		
Sweden	kortidsvärde (KTV) (ppm)	150 ppm
<b>Xylene (1330-20-7)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup> (pure)
EU	IOELV TWA (ppm)	50 ppm (pure)
EU	IOELV STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> (pure)
EU	IOELV STEL (ppm)	100 ppm (pure)
Austria	MAK (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup> (all isomers)
Austria	MAK (ppm)	50 ppm (all isomers)
Austria	MAK Short time value (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> (all isomers)
Austria	MAK Short time value (ppm)	100 ppm (all isomers)
Belgium	Limit value (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	50 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	100 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	221,0 mg/m <sup>3</sup> (pure)
Bulgaria	OEL TWA (ppm)	50 ppm (pure)
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> (pure)
Bulgaria	OEL STEL (ppm)	100 ppm (pure)
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Croatia	GVI (granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	100 ppm
Cyprus	OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Cyprus	OEL TWA (ppm)	50 ppm
Cyprus	OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Cyprus	OEL STEL (ppm)	100 ppm
France	VLE (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> (restrictive limit)
France	VLE (ppm)	100 ppm (restrictive limit)
France	VME (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup> (restrictive limit)
France	VME (ppm)	50 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	440 mg/m <sup>3</sup> (all isomers)
Germany	TRGS 900 Occupational exposure limit value (ppm)	100 ppm (all isomers)
Germany	TRGS 903 (BGW)	1,5 mg/l (Medium: whole blood - Time: end of shift - Parameter: Xylene (all isomers) 2000 mg/l (Medium: urine - Time: end of shift - Parameter: Methylhippuric(tolur-)acid (all isomers)
Gibraltar	OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup> (pure)
Gibraltar	OEL TWA (ppm)	50 ppm (pure)
Gibraltar	OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> (pure)
Gibraltar	OEL STEL (ppm)	100 ppm (pure)
Greece	OEL TWA (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	650 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	150 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	100 ppm

<b>Xylene (1330-20-7)</b>		
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	150 ppm
Italy	OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup> (pure)
Italy	OEL TWA (ppm)	50 ppm (pure)
Italy	OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> (pure)
Italy	OEL STEL (ppm)	100 ppm (pure)
Latvia	OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	50 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup> (indicative limit value)
Spain	VLA-ED (ppm)	50 ppm (indicative limit value)
Spain	VLA-EC (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	100 ppm
Switzerland	VLE (mg/m <sup>3</sup> )	870 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	200 ppm
Switzerland	VME (mg/m <sup>3</sup> )	435 mg/m <sup>3</sup>
Switzerland	VME (ppm)	100 ppm
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	210 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	441 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	100 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	109 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	25 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	220 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	440 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	100 ppm
Hungary	AK-érték	221 mg/m <sup>3</sup>
Hungary	CK-érték	442 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	100 ppm
Lithuania	IPRV (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	450 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	100 ppm
Malta	OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup> (pure)
Malta	OEL TWA (ppm)	50 ppm (pure)
Malta	OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup> (pure)
Malta	OEL STEL (ppm)	100 ppm (pure)
Norway	Gjennomsnittsverdier (AN) (mg/m <sup>3</sup> )	108 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (AN) (ppm)	25 ppm
Norway	Gjennomsnittsverdier (Korttidsverdi) (mg/m <sup>3</sup> )	135 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (Korttidsverdi) (ppm)	37,5 ppm
Poland	NDS (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	50 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>

<b>Xylene (1330-20-7)</b>		
Romania	OEL STEL (ppm)	100 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	NPHV (Hraničná) (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	221 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	442 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	100 pp

<b>Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)</b>		
Latvia	OEL TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Spain	VLA-ED (mg/m <sup>3</sup> )	290 mg/m <sup>3</sup> (This substance marked with note J and commercialized in Spain contains less than 0.1% by weight of Benzene and shall not be classified as carcinogenic)
Spain	VLA-ED (ppm)	50 ppm (This substance marked with note J and commercialized in Spain contains less than 0.1% by weight of Benzene and shall not be classified as carcinogenic)
Spain	VLA-EC (mg/m <sup>3</sup> )	580 mg/m <sup>3</sup> (according to available data White Spirit sold in Spain has <0.1% Benzene, therefore not carcinogenic)
Spain	VLA-EC (ppm)	100 ppm (according to available data White Spirit sold in Spain has <0.1% Benzene, therefore not carcinogenic)
Poland	NDS (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup> (varnish)
Poland	NDSch (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup> (varnish)

<b>2-methoxy-1-methylethyl acetate (108-65-6)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	100 ppm
Austria	MAK (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	100 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	50 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	100 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	275,0 mg/m <sup>3</sup>
Bulgaria	OEL TWA (ppm)	50 ppm
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	555,0 mg/m <sup>3</sup>
Bulgaria	OEL STEL (ppm)	100 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Croatia	GVI (granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	100 ppm
Cyprus	OEL TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Cyprus	OEL TWA (ppm)	50 ppm

<b>2-methoxy-1-methylethyl acetate (108-65-6)</b>		
Cyprus	OEL STEL (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Cyprus	OEL STEL (ppm)	100 ppm
France	VLE (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup> (restrictive limit)
France	VLE (ppm)	100 ppm (restrictive limit)
France	VME (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup> (restrictive limit)
France	VME (ppm)	50 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup> (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	50 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar	OEL TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Gibraltar	OEL TWA (ppm)	50 ppm
Gibraltar	OEL STEL (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Gibraltar	OEL STEL (ppm)	100 ppm
Greece	OEL TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	50 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	100 ppm
Italy	OEL TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	50 ppm
Italy	OEL STEL (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Italy	OEL STEL (ppm)	100 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	50 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup> (indicative limit value)
Spain	VLA-ED (ppm)	50 ppm (indicative limit value)
Spain	VLA-EC (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	100 ppm
Switzerland	VLE (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	50 ppm
Switzerland	VME (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Switzerland	VME (ppm)	50 ppm
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	274 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	548 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	100 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	550 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	100 ppm
Hungary	AK-érték	275 mg/m <sup>3</sup>
Hungary	CK-érték	550 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	100 ppm

<b>2-methoxy-1-methylethyl acetate (108-65-6)</b>		
Lithuania	IPRV (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	400 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	75 ppm
Malta	OEL TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	50 ppm
Malta	OEL STEL (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Malta	OEL STEL (ppm)	100 ppm
Norway	Gjennomsnittsverdier (AN) (mg/m <sup>3</sup> )	270 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (AN) (ppm)	50 ppm
Norway	Gjennomsnittsverdier (Korttidsverdi) (mg/m <sup>3</sup> )	337,5 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (Korttidsverdi) (ppm)	75 ppm
Poland	NDS (mg/m <sup>3</sup> )	260 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	520 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	50 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	100 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	NPHV (Hraničná) (mg/m <sup>3</sup> )	550 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	400 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	75 ppm

<b>1,2,4-trimethylbenzene (95-63-6)</b>		
EU	IOELV TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	20 ppm
Austria	MAK (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	30 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	100,0 mg/m <sup>3</sup>
Bulgaria	OEL TWA (ppm)	20 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Croatia	GVI (granična vrijednost izloženosti) (ppm)	20 ppm
Cyprus	OEL TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Cyprus	OEL TWA (ppm)	20 ppm
France	VLE (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup> (restrictive limit)
France	VLE (ppm)	50 ppm (restrictive limit)
France	VME (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup> (restrictive limit)
France	VME (ppm)	20 ppm (restrictive limit)
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup> (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)

<b>1,2,4-trimethylbenzene (95-63-6)</b>		
Germany	TRGS 903 (BGW)	400 mg/g (Medium: urine - Time: end of shift - Parameter: Dimethylbenzoic acid (sum of all isomers after hydrolysis; measured as mg/g Creatinine) 400 mg/g (Medium: urine - Time: end of several shifts - Parameter: Dimethylbenzoic acid (sum of all isomers after hydrolysis; measured as mg/g Creatinine; for long-term exposures)
Gibraltar	OEL TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Gibraltar	OEL TWA (ppm)	20 ppm
Greece	OEL TWA (mg/m <sup>3</sup> )	125 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	25 ppm
Italy	OEL TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Italy	OEL TWA (ppm)	20 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Latvia	OEL TWA (ppm)	20 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup> (indicative limit value)
Spain	VLA-ED (ppm)	20 ppm (indicative limit value)
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	20 ppm
Hungary	AK-érték	100 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup> (calculated)
Ireland	OEL (15 min ref) (ppm)	60 ppm (calculated)
Malta	OEL TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Malta	OEL TWA (ppm)	20 ppm
Norway	Gjennomsnittsverdier (AN) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (AN) (ppm)	20 ppm
Norway	Gjennomsnittsverdier (Korttidsverdi) (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (Korttidsverdi) (ppm)	30 ppm
Poland	NDS (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	170 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	20 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Slovakia	NPHV (Hraničná) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	25 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	170 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	35 ppm

<b>butan-1-ol (71-36-3)</b>		
Austria	MAK (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	200 ppm

<b>butan-1-ol (71-36-3)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	20 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m <sup>3</sup> )	154 mg/m <sup>3</sup>
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	50 ppm
France	VLE (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
France	VLE (ppm)	50 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup> (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	100 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 (BGW)	10 mg/g (Medium: urine - Time: end of shift - Parameter: 1-Butanol (after hydrolysis; measured as mg/g Creatinine) 2 mg/g (Medium: urine - Time: before beginning of next shift - Parameter: 1-Butanol (after hydrolysis; measured as mg/g Creatinine)
Greece	OEL TWA (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	100 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Spain	VLA-ED (mg/m <sup>3</sup> )	61 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	20 ppm
Spain	VLA-EC (mg/m <sup>3</sup> )	154 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	50 ppm
Switzerland	VLE (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	50 ppm
Switzerland	VME (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Switzerland	VME (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	154 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	50 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	230 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	75 ppm
Hungary	AK-érték	45 mg/m <sup>3</sup>
Hungary	CK-érték	90 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (ppm)	60 ppm (calculated)
Lithuania	IPRV (mg/m <sup>3</sup> )	45 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	15 ppm
Lithuania	NRV (mg/m <sup>3</sup> )	90 mg/m <sup>3</sup>
Lithuania	NRV (ppm)	30 ppm
Norway	Gjennomsnittsverdier (Takverdi) (mg/m <sup>3</sup> )	75 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (Takverdi) (ppm)	25 ppm

<b>butan-1-ol (71-36-3)</b>		
Poland	NDS (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	33 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	66 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	100 ppm
Slovakia	NPHV (Hraničná) (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	45 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	15 ppm
Sweden	takgränsvärde (TGV) (mg/m <sup>3</sup> )	90 mg/m <sup>3</sup>
Sweden	takgränsvärde (TGV) (ppm)	30 ppm

Recommended monitoring procedures: : Concentration measurement in air  
Personal monitoring

**8.2. Exposure controls**

- Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.  
Respirator with a full face mask (EN136).  
Respirator with a half face mask (EN140).  
Recommended Filter type: A (EN141).
- Hand protection : Protective gloves complying with EN 374.,The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.,Butyl caoutchouc (butyl rubber),NBR (Nitrile rubber),
- Eye protection : Face-shield Safety glasses (EN 166)
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Thermal hazard protection : Not required under normal use.
- Engineering control measures : Use only in area provided with appropriate exhaust ventilation. Take precautionary measures against static discharge. A washing facility/water for eye and skin cleaning purposes should be present. Eye wash bottle with pure water . Organisational measures to prevent /limit releases, dispersion and exposure : See also section 7 .
- Environmental exposure controls : Do not allow to enter into surface water or drains.  
Comply with applicable Community environmental protection legislation.

**SECTION 9: Physical and chemical properties**

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

- Appearance : liquid
- Colour : characteristic
- Odour : characteristic
- Odour Threshold : no data available
- pH : no data available
- Melting point/freezing point : no data available

Inizial boiling point and boiling range	:	> 37,8 °C
Flash point	:	23 °C
Evaporation rate	:	no data available
Flammability (solid, gas)	:	not applicable,(liquid)
Upper/lower flammability or explosive limits	:	LEL:0,7-UEL:11,2 vol %
Vapour pressure	:	10 hPa @20°C
Vapour density	:	> 1 vapour density
Relative density	:	1
Partition coefficient: n-octanol/water	:	no data available
Autoignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity	:	no data available
Explosive properties	:	not applicable The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidizing properties	:	not applicable The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.

**9.2. Other information**

Volatile organic compounds (VOC) content : &lt; 87 %

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

 Reactivity : Flammable liquid  
Reference to other section 10.5

**10.2. Chemical stability**

Stability : The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions : Vapours can form explosive mixtures with air.

**10.4. Conditions to avoid**

 Conditions to avoid : Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.  
Exposure to sunlight.  
See also section 7 .

**10.5. Incompatible materials**

Incompatible materials : Incompatible with strong acids and oxidizing agents. Strong bases See also section 7

**10.6. Hazardous decomposition products**

 Hazardous decomposition products : Burning produces noxious and toxic fumes. Hazardous decomposition products: CO<sub>x</sub>, NO<sub>x</sub>.

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

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

<b>N-butyl acetate (123-86-4)</b>	
LD50/oral/rat	14,13 mg/kg
LD50/dermal/rabbit	> 17600 mg/kg
LC50/inhalation/4h/rat	23,4 mg/l (OECD 403; In Vivo; Aerosol)

<b>N-butyl acetate (123-86-4)</b>	
LC50/inhalation/4h/rat (ppm)	390 ppm/4h
<b>Xylene (1330-20-7)</b>	
LD50/oral/rat	3500 mg/kg
LD50/dermal/rabbit	> 4350 mg/kg
ATE CLP (oral)	4300 mg/kg bodyweight
ATE CLP (dermal)	1100 mg/kg bodyweight
<b>Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)</b>	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rabbit	> 3160 mg/kg
<b>2-methoxy-1-methylethyl acetate (108-65-6)</b>	
LD50/oral/rat	8532 mg/kg
LD50/dermal/rabbit	> 5 g/kg
ATE CLP (oral)	8532 mg/kg bodyweight
<b>1,2,4-trimethylbenzene (95-63-6)</b>	
LD50/oral/rat	3280 mg/kg
LD50/dermal/rat	3440 mg/kg No mortality observed at this dose.
LD50/dermal/rabbit	> 3160 mg/kg
ATE CLP (oral)	3280 mg/kg bodyweight
ATE CLP (dermal)	3440 mg/kg bodyweight
ATE CLP (gases)	4500,000 ppmv/4h
ATE CLP (vapours)	10,2 mg/l/4h
ATE CLP (dust,mist)	1,5 mg/l/4h
<b>butan-1-ol (71-36-3)</b>	
LD50/oral/rat	700 mg/kg
LD50/dermal/rabbit	3402 mg/kg
LC50/inhalation/4h/rat (ppm)	> 8000 ppm/4h
ATE CLP (oral)	500 mg/kg bodyweight

Skin corrosion/irritation	: Causes skin irritation. pH: no data available
Serious eye damage/irritation	: Causes serious eye damage. pH: no data available
Respiratory/skin sensitisation	: Not classified (Based on available data, the classification criteria are not met.)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met.)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met.)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met.)
STOT-single exposure	: May cause drowsiness or dizziness.
STOT – repeated exposure	: Not classified (Based on available data, the classification criteria are not met.)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met.)

**Other information**

Symptoms related to the physical, chemical and toxicological characteristics, See section 4.2.

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

Ecotoxicity effects : Ecological injuries are not known or expected under normal use.

<b>N-butyl acetate (123-86-4)</b>	
LC50 fish 1	100 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 fish 2	17 - 19 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

<b>Xylene (1330-20-7)</b>	
LC50 fish 1	13,4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	3,82 mg/l (Exposure time: 48 h - Species: water flea)
LC50 fish 2	2,661 - 4,093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

<b>2-methoxy-1-methylethyl acetate (108-65-6)</b>	
LC50 fish 1	161 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	> 500 mg/l (Exposure time: 48 h - Species: Daphnia magna)

<b>1,2,4-trimethylbenzene (95-63-6)</b>	
LC50 fish 1	7,19 - 8,28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	6,14 mg/l (Exposure time: 48 h - Species: Daphnia magna)

<b>butan-1-ol (71-36-3)</b>	
LC50 fish 1	1730 - 1910 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	1983 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	1740 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 2	1897 - 2072 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

**12.2. Persistence and degradability**

Persistence and degradability : No data available

**12.3. Bioaccumulative potential**

Bioaccumulation : No data available

Partition coefficient: n-octanol/water : no data available

**12.4. Mobility in soil**

Mobility : This information is not available.

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

PBT/vPvB : This information is not available.

**12.6. Other adverse effects**

Other information : No information available.

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

Product waste : Handle with care. Safe handling: see section 7 . Do not allow to enter into surface water or drains. Refer to manufacturer/supplier for information on recovery/recycling Collect and dispose of waste product at an authorised disposal facility. Dispose according to legislation.

- Contaminated packaging : Delivery to an approved waste disposal company. Dispose according to legislation.
- List of proposed waste codes/waste designations in accordance with the EWC: : Classified as hazardous waste according to European Union regulations. Waste codes should be assigned by the user based on the application for which the product was used.  
The following Waste Codes are only suggestions:  
08 01 11\*  
15 01 10\* - packaging containing residues of or contaminated by dangerous substances

**SECTION 14: Transport information****14.1. UN number**

UN-Number : 1263

**14.2. UN proper shipping name**

Proper Shipping Name : PAINT RELATED MATERIAL  
Proper shipping name IATA/IMDG : PAINT RELATED MATERIAL

**14.3. Transport hazard class(es)****14.3.1. Overland transport**

Class(es) : 3 - Flammable liquid  
Hazard identification number (Kemler No.) : 30  
Classification code : F1  
ADR/RID-Labels : 3 - Flammable liquid

**14.3.2. Inland waterway transport (ADN)**

Class (UN) : 3

**14.3.3. Transport by sea**

Class or Division : 3 - Flammable liquids

**14.3.4. Air transport**

Class or Division : 3 - Flammable liquids

**14.4. Packing group**

Packing group : III

**14.5. Environmental hazards**

Other information : No supplementary information available.

**14.6. Special precautions for user**

Special precautions for user : Special Provision 640E.

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

Code: IBC : Not applicable.

**SECTION 15: Regulatory information**

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

**15.1.1. EU-Regulations**

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006 :

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 : Deltron BC - 1,2,4-trimethylbenzene - 2-methoxy-1-methylethyl acetate – xylene - butan-1-ol - n-butyl acetate

40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. : Deltron BC - 1,2,4-trimethylbenzene - 2-methoxy-1-methylethyl acetate – xylene - butan-1-ol - Naphtha (petroleum), hydrodesulfurized heavy – n-butyl acetate

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC. : none

Authorisations : Not applicable

Volatile organic compounds (VOC) content : < 87 %

**15.1.2. National regulations**

DE : WGK : 1  
 DE : German storage class (LGK) : LGK 3 - Flammable liquid materials (Flashpoint < 55 °C)  
 DE : Technische Regeln für Gefahrstoffe (TRGS) : applicable  
 DE : Risk classification according to VbF : A I - Liquids with a flashpoint below 21°C  
 FR : Installations classées : 143x  
 NL : ABM : 11 - Weinig schadelijk voor in het water levende organismen (B)  
 NL : NeR (Nederlandse emissie Richtlijn) : Organic Substances

**15.2. Chemical safety assessment**

Chemical Safety Assessment : Not required

**SECTION 16: Other information**

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Dermal) : Acute toxicity (dermal) Category 4  
 Acute Tox. 4 (Inhalation) : Acute toxicity (inhalation) Category 4  
 Acute Tox. 4 (Oral) : Acute toxicity Category 4  
 Aquatic Chronic 2 : Hazardous to the aquatic environment - chronic hazard category 2  
 Asp. Tox. 1 : Aspiration hazard Category 1

Eye Dam. 1	: Serious eye damage/eye irritation Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 1	: Flammable liquids Category 1
Flam. Liq. 3	: Flammable liquids Category 3
Skin Irrit. 2	: skin corrosion/irritation Category 2
STOT SE 3	: Specific target organ toxicity (single exposure) Category 3
STOT SE 3	: Specific target organ toxicity (single exposure) Category 3
H224	: Extremely flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H312	: Harmful in contact with skin.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H411	: Toxic to aquatic life with long lasting effects.
R10	: Flammable.
R12	: Extremely flammable.
R20	: Harmful by inhalation.
R20/21	: Harmful by inhalation and in contact with skin.
R22	: Harmful if swallowed.
R36	: Irritating to eyes.
R36/37/38	: Irritating to eyes, respiratory system and skin.
R37/38	: Irritating to respiratory system and skin.
R38	: Irritating to skin.
R41	: Risk of serious damage to eyes.
R51/53	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	: Harmful: may cause lung damage if swallowed.
R66	: Repeated exposure may cause skin dryness or cracking.
R67	: Vapours may cause drowsiness and dizziness.
F+	: Extremely flammable
N	: Dangerous for the environment
Xi	: Irritant
Xn	: Harmful
Key literature reference and sources for data	: European Chemicals Bureau SDS supplier
Other information	: Calculation method, Article 9 (CLP 1272/2008)
Safety datasheet sections which have been updated:	: 1
Abbreviations and acronyms	: ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals EC50 = Median Effective Concentration LC50 = Median lethal concentration LD50 = Median lethal dose TLV = Threshold limits TWA = time weighted average STEL = Short term exposure limit persistent, bioaccumulating and toxic (PBT).



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vPvB = very persistent and very bioaccumulating

WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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