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

1.1. Product identifier

Product form : Mixture
Trade name : Touch Up Pencil DG
Product group : Trade product

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use, Professional use
Use of the substance/mixture : Touch Up Pencils

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Mobielcenter n.v.
Kaarbaan 9
3600 Genk - Belgium
T +32 89 62 90 90 - F +32 89 30 44 39
info@mobielercenter.be - <http://www.mobielercenter.be>

1.4. Emergency telephone number

Emergency number : +32 89 62 90 90
Only available during office hours.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 3 H226
STOT SE 3 H336

Full text of H statements : see section 16

2.2. Label elements

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



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Hazard pictograms (CLP) :



GHS02



GHS07

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Signal word	: Warning
Hazardous ingredients	: Naphtha (petroleum), hydrodesulfurized heavy; n-butyl acetate
Hazard statements (CLP)	: H226 - Flammable liquid and vapour. H336 - May cause drowsiness or dizziness.
Precautionary statements (CLP)	: 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. P405 - Store locked up. P501 - Dispose of contents and container to an approved waste disposal plant.
Extra phrases	: EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Other hazards : Vapours can form explosive mixtures with air. PBT/vPvB data : Not applicable.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients


3.1. Substances

Not applicable

3.2. Mixtures

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-xxxx	≥ 28,5	Flam. Liq. 2, H225 STOT SE 3, H336
xylene	(CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (EC Index) 601-022-00-9	3,5 – 7,5	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
2-methoxy-1-methylethyl acetate	(CAS-No.) 108-65-6 (EC-No.) 203-603-9 (EC Index) 607-195-00-7	3,5 – 7	Flam. Liq. 3, H226 Eye Irrit. 2, H319
2-butoxyethyl acetate	(CAS-No.) 112-07-2 (EC-No.) 203-933-3 (EC Index) 607-038-00-2	0,7 – 2,1	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332
Naphtha (petroleum), hydrodesulfurized heavy	(CAS-No.) 64742-82-1 (EC-No.) 265-185-4	0,7 – 1,75	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	0,18 – 0,7	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice	: First aider: Pay attention to self-protection!. See also section 8 . Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. In case of doubt or persistent symptoms, consult always a physician.
Inhalation	: Remove casualty to fresh air and keep warm and at rest. Give oxygen or artificial respiration if necessary. Get medical advice/attention.
Skin contact	: Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Rinse mouth thoroughly with water. Drink plenty of water. Do NOT induce vomiting. Get medical advice/attention.

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	: Repeated exposure may cause skin dryness or cracking.
Eyes contact	: Contact with eyes may cause irritation.
Ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media


Suitable extinguishing media	: Water spray, Alcohol resistant foam, Carbon dioxide, Dry extinguishing powder.
Unsuitable extinguishing media	: Strong water jet .

5.2. Special hazards arising from the substance or mixture

Specific hazards	: Flammable liquid and vapour. 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.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO ₂). Nitrogen oxides (NO _x). Burning produces noxious and toxic fumes.

5.3. Advice for firefighters

Firefighting instructions	: Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
Other information	: Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe vapours, spray. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so. Dam up the liquid spill.
 Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation. Cover the spilled liquid product with foam to slow down evaporation.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapours, spray. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. After use replace the closing cap immediately.

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Storage of flammable liquids. Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10.
 Incompatible materials : Oxidising agents. Strong acids. Strong bases.
 Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep at temperatures between 0 and 35 °C. Protect from sunlight.
 Special rules on packaging : Containers which are opened should be properly resealed and kept upright to prevent leakage.
 Packaging materials : Keep only in the original container. Unsuitable material: : Use of plastic materials.



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7.3. Specific end use(s)

Touch Up Pencils.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

n-butyl acetate (123-86-4)		
Austria	MAK (OEL TWA)	480 mg/m ³ (Butyl acetates)
Austria	MAK (OEL TWA) [ppm]	100 ppm (Butyl acetates)
Austria	MAK (OEL STEL)	480 mg/m ³ (all isomers except tert-Butyl acetate (Butyl acetate))
Austria	MAK (OEL STEL) [ppm]	100 ppm (all isomers except tert-Butyl acetate (Butyl acetate))
Austria	OEL C	480 mg/m ³ (Butyl acetate, all isomers)
Austria	OEL C [ppm]	100 ppm (Butyl acetate, all isomers)
Belgium	OEL TWA	238 mg/m ³
Belgium	OEL TWA [ppm]	50 ppm
Belgium	OEL STEL	712 mg/m ³
Belgium	OEL STEL [ppm]	150 ppm
Bulgaria	OEL TWA	710 mg/m ³
Bulgaria	OEL STEL	950 mg/m ³
Croatia	GVI (OEL TWA) [1]	724 mg/m ³
Croatia	GVI (OEL TWA) [2]	150 ppm
Croatia	KGVI (OEL STEL)	966 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	200 ppm
Czech Republic	PEL (OEL TWA)	950 mg/m ³
Denmark	OEL TWA [1]	710 mg/m ³ (Butyl acetate, all isomers)
Denmark	OEL TWA [2]	150 ppm (Butyl acetate, all isomers)
Finland	HTP (OEL TWA) [1]	720 mg/m ³ (Butyl acetate)
Finland	HTP (OEL TWA) [2]	150 ppm (Butyl acetate)
Finland	HTP (OEL STEL)	960 mg/m ³ (Butyl acetate)
Finland	HTP (OEL STEL) [ppm]	200 ppm (Butyl acetate)
France	VME (OEL TWA)	710 mg/m ³
France	VME (OEL TWA) [ppm]	150 ppm
France	VLE (OEL C/STEL)	940 mg/m ³
France	VLE (OEL C/STEL) [ppm]	200 ppm
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	300 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm) (TRGS900)	62 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Greece	OEL TWA	710 mg/m ³
Greece	OEL TWA [ppm]	150 ppm
Greece	OEL STEL	950 mg/m ³
Greece	OEL STEL [ppm]	200 ppm
Hungary	AK (OEL TWA)	241 mg/m ³
Hungary	CK (OEL STEL)	723 mg/m ³
Ireland	OEL TWA [1]	710 mg/m ³



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n-butyl acetate (123-86-4)

Ireland	OEL TWA [2]	150 ppm
Ireland	OEL STEL	950 mg/m ³
Ireland	OEL STEL [ppm]	200 ppm
Latvia	OEL TWA	200 mg/m ³
Poland	NDS (OEL TWA)	240 mg/m ³
Poland	NDSch (OEL STEL)	720 mg/m ³
Portugal	OEL TWA [ppm]	150 ppm
Portugal	OEL STEL [ppm]	200 ppm
Romania	OEL TWA	715 mg/m ³
Romania	OEL TWA [ppm]	150 ppm
Romania	OEL STEL	950 mg/m ³
Romania	OEL STEL [ppm]	200 ppm
Slovakia	NPHV (OEL TWA) [1]	500 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	100 ppm
Slovakia	NPHV (OEL C)	700 mg/m ³
Slovenia	OEL TWA	300 mg/m ³
Slovenia	OEL TWA [ppm]	62 ppm
Slovenia	OEL STEL	600 mg/m ³
Slovenia	OEL STEL [ppm]	124 ppm
Spain	VLA-ED (OEL TWA) [1]	724 mg/m ³
Spain	VLA-ED (OEL TWA) [2]	150 ppm
Spain	VLA-EC (OEL STEL)	965 mg/m ³
Spain	VLA-EC (OEL STEL) [ppm]	200 ppm
Sweden	NGV (OEL TWA)	500 mg/m ³ (Butyl acetates)
Sweden	NGV (OEL TWA) [ppm]	100 ppm (Butyl acetates)
Sweden	KTV (OEL STEL)	700 mg/m ³ (Butyl acetates)
Sweden	KTV (OEL STEL) [ppm]	150 ppm (Butyl acetates)
United Kingdom	WEL TWA (OEL TWA) [1]	724 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	150 ppm
United Kingdom	WEL STEL (OEL STEL)	966 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	200 ppm
Switzerland	MAK (OEL TWA) [1]	480 mg/m ³
Switzerland	MAK (OEL TWA) [2]	100 ppm
Switzerland	KZGW (OEL STEL)	960 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	200 ppm
Australia	OES TWA [1]	713 mg/m ³
Australia	OES TWA [2]	150 ppm
Australia	OES STEL	950 mg/m ³
Australia	OES STEL [ppm]	200 ppm
Canada (Quebec)	VEMP (OEL TWA) [ppm]	50 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	50 ppm (Butyl acetates, all isomers)
USA - ACGIH	ACGIH OEL STEL [ppm]	150 ppm (Butyl acetates, all isomers)
USA - IDLH	IDLH [ppm]	1700 ppm (10% LEL)
USA - NIOSH	NIOSH REL TWA	710 mg/m ³



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n-butyl acetate (123-86-4)

USA - NIOSH	NIOSH REL TWA [ppm]	150 ppm
USA - NIOSH	NIOSH REL STEL	950 mg/m ³
USA - NIOSH	NIOSH REL STEL [ppm]	200 ppm
USA - OSHA	OSHA PEL TWA [1]	710 mg/m ³
USA - OSHA	OSHA PEL TWA [2]	150 ppm

xylene (1330-20-7)

EU	IOEL TWA	221 mg/m ³ (pure)
EU	IOEL TWA [ppm]	50 ppm (pure)
EU	IOEL STEL	442 mg/m ³ (pure)
EU	IOEL STEL [ppm]	100 ppm (pure)
EU	Notes	Possibility of significant uptake through the skin (pure)
Austria	MAK (OEL TWA)	221 mg/m ³ (all isomers)
Austria	MAK (OEL TWA) [ppm]	50 ppm (all isomers)
Austria	MAK (OEL STEL)	442 mg/m ³
Austria	MAK (OEL STEL) [ppm]	100 ppm
Belgium	OEL TWA	221 mg/m ³
Belgium	OEL TWA [ppm]	50 ppm
Belgium	OEL STEL	442 mg/m ³
Belgium	OEL STEL [ppm]	100 ppm
Bulgaria	OEL TWA	221 mg/m ³ (pure)
Bulgaria	OEL TWA [ppm]	50 ppm (pure)
Bulgaria	OEL STEL	442 mg/m ³ (pure)
Bulgaria	OEL STEL [ppm]	100 ppm (pure)
Croatia	GVI (OEL TWA) [1]	221 mg/m ³
Croatia	GVI (OEL TWA) [2]	50 ppm
Croatia	KGVI (OEL STEL)	442 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	100 ppm
Cyprus	OEL TWA	221 mg/m ³
Cyprus	OEL TWA [ppm]	50 ppm
Cyprus	OEL STEL	442 mg/m ³
Cyprus	OEL STEL [ppm]	100 ppm
Czech Republic	PEL (OEL TWA)	200 mg/m ³
Denmark	OEL TWA [1]	109 mg/m ³ (Xylene, all isomers)
Denmark	OEL TWA [2]	25 ppm (Xylene, all isomers)
Estonia	OEL TWA	200 mg/m ³
Estonia	OEL TWA [ppm]	50 ppm
Estonia	OEL STEL	450 mg/m ³
Estonia	OEL STEL [ppm]	100 ppm
Finland	HTP (OEL TWA) [1]	220 mg/m ³
Finland	HTP (OEL TWA) [2]	50 ppm
Finland	HTP (OEL STEL)	440 mg/m ³
Finland	HTP (OEL STEL) [ppm]	100 ppm
France	VME (OEL TWA)	221 mg/m ³ (restrictive limit)
France	VME (OEL TWA) [ppm]	50 ppm (restrictive limit)



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xylene (1330-20-7)

France	VLE (OEL C/STEL)	442 mg/m ³ (restrictive limit)
France	VLE (OEL C/STEL) [ppm]	100 ppm (restrictive limit)
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	440 mg/m ³ (all isomers)
Germany	Occupational exposure limit value (ppm) (TRGS900)	100 ppm (all isomers)
Germany	BLV	2000 mg/l Parameter: Methylhippuric(tolur-)acid (all isomers) - Medium: urine - Sampling time: end of shift (all isomers)
Gibraltar	OEL TWA	221 mg/m ³ (pure)
Gibraltar	OEL TWA [ppm]	50 ppm (pure)
Gibraltar	OEL STEL	442 mg/m ³ (pure)
Gibraltar	OEL STEL [ppm]	100 ppm (pure)
Greece	OEL TWA	435 mg/m ³
Greece	OEL TWA [ppm]	100 ppm
Greece	OEL STEL	650 mg/m ³
Greece	OEL STEL [ppm]	150 ppm
Hungary	AK (OEL TWA)	221 mg/m ³
Hungary	CK (OEL STEL)	442 mg/m ³
Ireland	OEL TWA [1]	221 mg/m ³
Ireland	OEL TWA [2]	50 ppm
Ireland	OEL STEL	442 mg/m ³
Ireland	OEL STEL [ppm]	100 ppm
Italy	OEL TWA	221 mg/m ³ (pure)
Italy	OEL TWA [ppm]	50 ppm (pure)
Italy	OEL STEL	442 mg/m ³ (pure)
Italy	OEL STEL [ppm]	100 ppm (pure)
Latvia	OEL TWA	221 mg/m ³
Latvia	OEL TWA [ppm]	50 ppm
Lithuania	IPRV (OEL TWA)	221 mg/m ³ (mixed isomers, pure)
Lithuania	IPRV (OEL TWA) [ppm]	50 ppm (mixed isomers, pure)
Lithuania	TPRV (OEL STEL)	442 mg/m ³ (mixed isomers, pure)
Lithuania	TPRV (OEL STEL) [ppm]	100 ppm (mixed isomers, pure)
Luxembourg	OEL TWA	221 mg/m ³
Luxembourg	OEL TWA [ppm]	50 ppm
Luxembourg	OEL STEL	442 mg/m ³
Luxembourg	OEL STEL [ppm]	100 ppm
Malta	OEL TWA	221 mg/m ³ (pure)
Malta	OEL TWA [ppm]	50 ppm (pure)
Malta	OEL STEL	442 mg/m ³ (pure)
Malta	OEL STEL [ppm]	100 ppm (pure)
Netherlands	MAC-TGG (OEL TWA)	210 mg/m ³
Netherlands	MAC-15 (OEL STEL)	442 mg/m ³
Poland	NDS (OEL TWA)	100 mg/m ³ (mixture of isomers)
Poland	NDSch (OEL STEL)	200 mg/m ³ (mixture of isomers)

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xylene (1330-20-7)		
Portugal	OEL TWA	221 mg/m ³ (indicative limit value)
Portugal	OEL TWA [ppm]	50 ppm (indicative limit value)
Portugal	OEL STEL	442 mg/m ³ (indicative limit value)
Portugal	OEL STEL [ppm]	100 ppm (indicative limit value)
Romania	OEL TWA	221 mg/m ³ (pure)
Romania	OEL TWA [ppm]	50 ppm (pure)
Romania	OEL STEL	442 mg/m ³ (pure)
Romania	OEL STEL [ppm]	100 ppm (pure)
Slovakia	NPHV (OEL TWA) [1]	221 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	50 ppm
Slovakia	NPHV (OEL C)	442 mg/m ³
Slovenia	OEL TWA	221 mg/m ³
Slovenia	OEL TWA [ppm]	50 ppm
Slovenia	OEL STEL	442 mg/m ³
Slovenia	OEL STEL [ppm]	100 ppm
Spain	VLA-ED (OEL TWA) [1]	221 mg/m ³ (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	50 ppm (indicative limit value)
Spain	VLA-EC (OEL STEL)	442 mg/m ³
Spain	VLA-EC (OEL STEL) [ppm]	100 ppm
Sweden	NGV (OEL TWA)	221 mg/m ³ (Xylene)
Sweden	NGV (OEL TWA) [ppm]	50 ppm (Xylene)
Sweden	KTV (OEL STEL)	442 mg/m ³ (Xylene)
Sweden	KTV (OEL STEL) [ppm]	100 ppm (Xylene)
United Kingdom	WEL TWA (OEL TWA) [1]	220 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	50 ppm
United Kingdom	WEL STEL (OEL STEL)	441 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	100 ppm
Norway	Grenseverdi (OEL TWA) [1]	108 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	25 ppm
Norway	Korttidsverdi (OEL STEL)	135 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	37,5 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	435 mg/m ³
Switzerland	MAK (OEL TWA) [2]	100 ppm
Switzerland	KZGW (OEL STEL)	870 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	200 ppm
Australia	OES TWA [1]	350 mg/m ³
Australia	OES TWA [2]	80 ppm
Australia	OES STEL	655 mg/m ³
Australia	OES STEL [ppm]	150 ppm
Canada (Quebec)	VECD (OEL STEL)	651 mg/m ³
Canada (Quebec)	VECD (OEL STEL) [ppm]	150 ppm
Canada (Quebec)	VEMP (OEL TWA)	434 mg/m ³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	100 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	100 ppm
USA - ACGIH	ACGIH OEL STEL [ppm]	150 ppm

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xylene (1330-20-7)		
USA - OSHA	OSHA PEL TWA [1]	435 mg/m ³
USA - OSHA	OSHA PEL TWA [2]	100 ppm
2-butoxyethyl acetate (112-07-2)		
EU	IOEL TWA	133 mg/m ³
EU	IOEL TWA [ppm]	20 ppm
EU	IOEL STEL	333 mg/m ³
EU	IOEL STEL [ppm]	50 ppm
EU	Notes	Possibility of significant uptake through the skin
Austria	MAK (OEL TWA)	133 mg/m ³
Austria	MAK (OEL TWA) [ppm]	20 ppm
Austria	MAK (OEL STEL)	270 mg/m ³
Austria	MAK (OEL STEL) [ppm]	40 ppm
Belgium	OEL TWA	133 mg/m ³
Belgium	OEL TWA [ppm]	20 ppm
Belgium	OEL STEL	333 mg/m ³
Belgium	OEL STEL [ppm]	50 ppm
Bulgaria	OEL TWA	133 mg/m ³
Bulgaria	OEL TWA [ppm]	20 ppm
Bulgaria	OEL STEL	333 mg/m ³
Bulgaria	OEL STEL [ppm]	50 ppm
Croatia	GVI (OEL TWA) [1]	133 mg/m ³
Croatia	GVI (OEL TWA) [2]	20 ppm
Croatia	KGVI (OEL STEL)	333 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	50 ppm
Cyprus	OEL TWA	133 mg/m ³
Cyprus	OEL TWA [ppm]	20 ppm
Cyprus	OEL STEL	333 mg/m ³
Cyprus	OEL STEL [ppm]	50 ppm
Czech Republic	PEL (OEL TWA)	130 mg/m ³
Denmark	OEL TWA [1]	134 mg/m ³
Denmark	OEL TWA [2]	20 ppm
Estonia	OEL TWA	133 mg/m ³
Estonia	OEL TWA [ppm]	20 ppm
Estonia	OEL STEL	333 mg/m ³
Estonia	OEL STEL [ppm]	50 ppm
Finland	HTP (OEL TWA) [1]	130 mg/m ³
Finland	HTP (OEL TWA) [2]	20 ppm
Finland	HTP (OEL STEL)	330 mg/m ³
Finland	HTP (OEL STEL) [ppm]	50 ppm
France	VME (OEL TWA)	66,5 mg/m ³ (indicative limit)
France	VME (OEL TWA) [ppm]	10 ppm (indicative limit)
France	VLE (OEL C/STEL)	333 mg/m ³ (restrictive limit)
France	VLE (OEL C/STEL) [ppm]	50 ppm (restrictive limit)
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	65 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)



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2-butoxyethyl acetate (112-07-2)

Germany	Occupational exposure limit value (ppm) (TRGS900)	10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	BLV	150 mg/g creatinine Parameter: Butoxyacetic acid (after hydrolysis) - Medium: urine - Sampling time: for long-term exposures: at the end of the shift after several shifts 150 mg/g creatinine Parameter: Butoxyacetic acid (after hydrolysis) - Medium: urine - Sampling time: end of shift
Gibraltar	OEL TWA	133 mg/m ³
Gibraltar	OEL TWA [ppm]	20 ppm
Gibraltar	OEL STEL	333 mg/m ³
Gibraltar	OEL STEL [ppm]	50 ppm
Greece	OEL TWA	135 mg/m ³
Greece	OEL TWA [ppm]	20 ppm
Greece	OEL STEL	270 mg/m ³
Greece	OEL STEL [ppm]	40 ppm
Hungary	AK (OEL TWA)	133 mg/m ³
Hungary	CK (OEL STEL)	333 mg/m ³
Ireland	OEL TWA [1]	133 mg/m ³
Ireland	OEL TWA [2]	20 ppm
Ireland	OEL STEL	333 mg/m ³
Ireland	OEL STEL [ppm]	50 ppm
Italy	OEL TWA	133 mg/m ³
Italy	OEL TWA [ppm]	20 ppm
Italy	OEL STEL	333 mg/m ³
Italy	OEL STEL [ppm]	50 ppm
Latvia	OEL TWA	133 mg/m ³
Latvia	OEL TWA [ppm]	20 ppm
Lithuania	IPRV (OEL TWA)	70 mg/m ³
Lithuania	IPRV (OEL TWA) [ppm]	10 ppm
Lithuania	TPRV (OEL STEL)	140 mg/m ³
Lithuania	TPRV (OEL STEL) [ppm]	20 ppm
Luxembourg	OEL TWA	133 mg/m ³
Luxembourg	OEL TWA [ppm]	20 ppm
Luxembourg	OEL STEL	333 mg/m ³
Luxembourg	OEL STEL [ppm]	50 ppm
Malta	OEL TWA	133 mg/m ³
Malta	OEL TWA [ppm]	20 ppm
Malta	OEL STEL	333 mg/m ³
Malta	OEL STEL [ppm]	50 ppm
Netherlands	MAC-TGG (OEL TWA)	135 mg/m ³
Netherlands	MAC-15 (OEL STEL)	333 mg/m ³
Poland	NDS (OEL TWA)	100 mg/m ³
Poland	NDSch (OEL STEL)	300 mg/m ³



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2-butoxyethyl acetate (112-07-2)		
Portugal	OEL TWA	133 mg/m ³ (indicative limit value)
Portugal	OEL TWA [ppm]	20 ppm (indicative limit value)
Portugal	OEL STEL	333 mg/m ³ (indicative limit value)
Portugal	OEL STEL [ppm]	50 ppm (indicative limit value)
Romania	OEL TWA	133 mg/m ³
Romania	OEL TWA [ppm]	20 ppm
Romania	OEL STEL	333 mg/m ³
Romania	OEL STEL [ppm]	50 ppm
Slovakia	NPHV (OEL TWA) [1]	133 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	20 ppm
Slovakia	NPHV (OEL C)	333 mg/m ³
Slovenia	OEL TWA	133 mg/m ³
Slovenia	OEL TWA [ppm]	20 ppm
Slovenia	OEL STEL	333 mg/m ³
Slovenia	OEL STEL [ppm]	50 ppm
Spain	VLA-ED (OEL TWA) [1]	133 mg/m ³ (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	20 ppm (indicative limit value)
Spain	VLA-EC (OEL STEL)	333 mg/m ³
Spain	VLA-EC (OEL STEL) [ppm]	50 ppm
Sweden	NGV (OEL TWA)	70 mg/m ³
Sweden	NGV (OEL TWA) [ppm]	10 ppm
Sweden	KTV (OEL STEL)	333 mg/m ³
Sweden	KTV (OEL STEL) [ppm]	50 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	133 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	20 ppm
United Kingdom	WEL STEL (OEL STEL)	332 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	50 ppm
Norway	Grenseverdi (OEL TWA) [1]	65 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	10 ppm
Norway	Korttidsverdi (OEL STEL)	97,5 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	15 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	66 mg/m ³ (aerosol, vapour)
Switzerland	MAK (OEL TWA) [2]	10 ppm (aerosol, vapour)
Switzerland	KZGW (OEL STEL)	132 mg/m ³ (aerosol, vapour)
Switzerland	KZGW (OEL STEL) [ppm]	20 ppm (aerosol, vapour)
Australia	OES TWA [1]	133 mg/m ³
Australia	OES TWA [2]	20 ppm
Australia	OES STEL	333 mg/m ³
Australia	OES STEL [ppm]	50 ppm
Canada (Quebec)	VEMP (OEL TWA) [ppm]	20 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	20 ppm
USA - NIOSH	NIOSH REL TWA	33 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	5 ppm



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Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)		
Latvia	OEL TWA	200 mg/m ³ (low boiling point Hydrogen treated Naphtha)
Poland	NDS (OEL TWA)	300 mg/m ³ (varnish)
Poland	NDSch (OEL STEL)	900 mg/m ³ (varnish (Benzin))
Spain	VLA-ED (OEL TWA) [1]	290 mg/m ³ (regulated as White spirit)
Spain	VLA-ED (OEL TWA) [2]	50 ppm (regulated as White spirit)
Spain	VLA-EC (OEL STEL)	580 mg/m ³ (regulated as White spirit)
Spain	VLA-EC (OEL STEL) [ppm]	100 ppm (regulated as White spirit)
2-methoxy-1-methylethyl acetate (108-65-6)		
EU	IOEL TWA	275 mg/m ³
EU	IOEL TWA [ppm]	50 ppm
EU	IOEL STEL	550 mg/m ³
EU	IOEL STEL [ppm]	100 ppm
EU	Notes	Possibility of significant uptake through the skin
Austria	MAK (OEL TWA)	275 mg/m ³
Austria	MAK (OEL TWA) [ppm]	50 ppm
Austria	MAK (OEL STEL)	550 mg/m ³
Austria	MAK (OEL STEL) [ppm]	100 ppm
Belgium	OEL TWA	275 mg/m ³
Belgium	OEL TWA [ppm]	50 ppm
Belgium	OEL STEL	550 mg/m ³
Belgium	OEL STEL [ppm]	100 ppm
Bulgaria	OEL TWA	275 mg/m ³
Bulgaria	OEL TWA [ppm]	50 ppm
Bulgaria	OEL STEL	550 mg/m ³
Bulgaria	OEL STEL [ppm]	100 ppm
Croatia	GVI (OEL TWA) [1]	275 mg/m ³
Croatia	GVI (OEL TWA) [2]	50 ppm
Croatia	KGVI (OEL STEL)	550 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	100 ppm
Cyprus	OEL TWA	275 mg/m ³
Cyprus	OEL TWA [ppm]	50 ppm
Cyprus	OEL STEL	550 mg/m ³
Cyprus	OEL STEL [ppm]	100 ppm
Czech Republic	PEL (OEL TWA)	270 mg/m ³
Denmark	OEL TWA [1]	275 mg/m ³
Denmark	OEL TWA [2]	50 ppm
Estonia	OEL TWA	275 mg/m ³
Estonia	OEL TWA [ppm]	50 ppm
Estonia	OEL STEL	550 mg/m ³
Estonia	OEL STEL [ppm]	100 ppm
Finland	HTP (OEL TWA) [1]	270 mg/m ³
Finland	HTP (OEL TWA) [2]	50 ppm
Finland	HTP (OEL STEL)	550 mg/m ³
Finland	HTP (OEL STEL) [ppm]	100 ppm
France	VME (OEL TWA)	275 mg/m ³ (restrictive limit)



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2-methoxy-1-methylethyl acetate (108-65-6)		
France	VME (OEL TWA) [ppm]	50 ppm (restrictive limit)
France	VLE (OEL C/STEL)	550 mg/m ³ (restrictive limit)
France	VLE (OEL C/STEL) [ppm]	100 ppm (restrictive limit)
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	270 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm) (TRGS900)	50 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Gibraltar	OEL TWA	275 mg/m ³
Gibraltar	OEL TWA [ppm]	50 ppm
Gibraltar	OEL STEL	550 mg/m ³
Gibraltar	OEL STEL [ppm]	100 ppm
Greece	OEL TWA	275 mg/m ³
Greece	OEL TWA [ppm]	50 ppm
Greece	OEL STEL	550 mg/m ³
Greece	OEL STEL [ppm]	100 ppm
Hungary	AK (OEL TWA)	275 mg/m ³
Hungary	CK (OEL STEL)	550 mg/m ³
Ireland	OEL TWA [1]	275 mg/m ³
Ireland	OEL TWA [2]	50 ppm
Ireland	OEL STEL	550 mg/m ³
Ireland	OEL STEL [ppm]	100 ppm
Italy	OEL TWA	275 mg/m ³
Italy	OEL TWA [ppm]	50 ppm
Italy	OEL STEL	550 mg/m ³
Italy	OEL STEL [ppm]	100 ppm
Latvia	OEL TWA	275 mg/m ³
Latvia	OEL TWA [ppm]	50 ppm
Lithuania	IPRV (OEL TWA)	250 mg/m ³
Lithuania	IPRV (OEL TWA) [ppm]	50 ppm
Lithuania	TPRV (OEL STEL)	400 mg/m ³
Lithuania	TPRV (OEL STEL) [ppm]	75 ppm
Luxembourg	OEL TWA	275 mg/m ³
Luxembourg	OEL TWA [ppm]	50 ppm
Luxembourg	OEL STEL	550 mg/m ³
Luxembourg	OEL STEL [ppm]	100 ppm
Malta	OEL TWA	275 mg/m ³
Malta	OEL TWA [ppm]	50 ppm
Malta	OEL STEL	550 mg/m ³
Malta	OEL STEL [ppm]	100 ppm
Netherlands	MAC-TGG (OEL TWA)	550 mg/m ³
Poland	NDS (OEL TWA)	260 mg/m ³
Poland	NDSch (OEL STEL)	520 mg/m ³
Portugal	OEL TWA	275 mg/m ³ (indicative limit value)



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2-methoxy-1-methylethyl acetate (108-65-6)

Portugal	OEL TWA [ppm]	50 ppm (indicative limit value)
Portugal	OEL STEL	550 mg/m ³ (indicative limit value)
Portugal	OEL STEL [ppm]	100 ppm (indicative limit value)
Romania	OEL TWA	275 mg/m ³
Romania	OEL TWA [ppm]	50 ppm
Romania	OEL STEL	550 mg/m ³
Romania	OEL STEL [ppm]	100 ppm
Slovakia	NPHV (OEL TWA) [1]	275 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	50 ppm
Slovakia	NPHV (OEL C)	550 mg/m ³
Slovenia	OEL TWA	275 mg/m ³
Slovenia	OEL TWA [ppm]	50 ppm
Slovenia	OEL STEL	550 mg/m ³
Slovenia	OEL STEL [ppm]	100 ppm
Spain	VLA-ED (OEL TWA) [1]	275 mg/m ³ (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	50 ppm (indicative limit value)
Spain	VLA-EC (OEL STEL)	550 mg/m ³
Spain	VLA-EC (OEL STEL) [ppm]	100 ppm
Sweden	NGV (OEL TWA)	275 mg/m ³
Sweden	NGV (OEL TWA) [ppm]	50 ppm
Sweden	KTV (OEL STEL)	550 mg/m ³
Sweden	KTV (OEL STEL) [ppm]	100 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	274 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	50 ppm
United Kingdom	WEL STEL (OEL STEL)	548 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	100 ppm
Norway	Grenseverdi (OEL TWA) [1]	270 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	50 ppm
Norway	Korttidsverdi (OEL STEL)	337,5 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	75 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	275 mg/m ³
Switzerland	MAK (OEL TWA) [2]	50 ppm
Switzerland	KZGW (OEL STEL)	275 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	50 ppm
Australia	OES TWA [1]	274 mg/m ³
Australia	OES TWA [2]	50 ppm
Australia	OES STEL	548 mg/m ³
Australia	OES STEL [ppm]	100 ppm

1,2,4-trimethylbenzene (95-63-6)

EU	IOEL TWA	100 mg/m ³
EU	IOEL TWA [ppm]	20 ppm
Austria	MAK (OEL TWA)	100 mg/m ³ (Trimethylbenzene all isomers)
Austria	MAK (OEL TWA) [ppm]	20 ppm (Trimethylbenzene all isomers)
Austria	MAK (OEL STEL)	150 mg/m ³ (Trimethylbenzene)
Austria	MAK (OEL STEL) [ppm]	30 ppm (Trimethylbenzene)



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1,2,4-trimethylbenzene (95-63-6)

Bulgaria	OEL TWA	100 mg/m ³
Bulgaria	OEL TWA [ppm]	20 ppm
Croatia	GVI (OEL TWA) [1]	100 mg/m ³
Croatia	GVI (OEL TWA) [2]	20 ppm
Cyprus	OEL TWA	100 mg/m ³
Cyprus	OEL TWA [ppm]	20 ppm
Czech Republic	PEL (OEL TWA)	100 mg/m ³
Denmark	OEL TWA [1]	100 mg/m ³ (Trimethylbenzenes)
Denmark	OEL TWA [2]	20 ppm (Trimethylbenzenes)
Estonia	OEL TWA	100 mg/m ³
Estonia	OEL TWA [ppm]	20 ppm
Finland	HTP (OEL TWA) [1]	100 mg/m ³
Finland	HTP (OEL TWA) [2]	20 ppm
France	VME (OEL TWA)	100 mg/m ³ (restrictive limit)
France	VME (OEL TWA) [ppm]	20 ppm (restrictive limit)
France	VLE (OEL C/STEL)	250 mg/m ³ (restrictive limit)
France	VLE (OEL C/STEL) [ppm]	50 ppm (restrictive limit)
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	100 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm) (TRGS900)	20 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	BLV	400 mg/g creatinine Parameter: Dimethylbenzoic acid (sum of all isomers after hydrolysis) - Medium: urine - Sampling time: end of shift 400 mg/g creatinine Parameter: Dimethylbenzoic acid (sum of all isomers after hydrolysis) - Medium: urine - Sampling time: for long-term exposures: at the end of the shift after several shifts
Gibraltar	OEL TWA	100 mg/m ³
Gibraltar	OEL TWA [ppm]	20 ppm
Greece	OEL TWA	125 mg/m ³
Greece	OEL TWA [ppm]	25 ppm
Hungary	AK (OEL TWA)	100 mg/m ³
Ireland	OEL TWA [1]	100 mg/m ³
Ireland	OEL TWA [2]	20 ppm
Ireland	OEL STEL	300 mg/m ³ (calculated)
Ireland	OEL STEL [ppm]	60 ppm (calculated)
Italy	OEL TWA	100 mg/m ³
Italy	OEL TWA [ppm]	20 ppm
Latvia	OEL TWA	100 mg/m ³
Latvia	OEL TWA [ppm]	20 ppm
Luxembourg	OEL TWA	100 mg/m ³
Luxembourg	OEL TWA [ppm]	20 ppm
Malta	OEL TWA	100 mg/m ³



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1,2,4-trimethylbenzene (95-63-6)

Malta	OEL TWA [ppm]	20 ppm
Netherlands	MAC-TGG (OEL TWA)	100 mg/m ³
Netherlands	MAC-15 (OEL STEL)	200 mg/m ³
Poland	NDS (OEL TWA)	100 mg/m ³
Poland	NDSch (OEL STEL)	170 mg/m ³ (Trimethylbenzene, mixture of isomers)
Portugal	OEL TWA	100 mg/m ³ (indicative limit value)
Portugal	OEL TWA [ppm]	20 ppm (indicative limit value)
Romania	OEL TWA	100 mg/m ³
Romania	OEL TWA [ppm]	20 ppm
Slovakia	NPHV (OEL TWA) [1]	100 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	20 ppm
Slovenia	OEL TWA	100 mg/m ³
Slovenia	OEL TWA [ppm]	20 ppm
Slovenia	OEL STEL	200 mg/m ³
Slovenia	OEL STEL [ppm]	40 ppm
Spain	VLA-ED (OEL TWA) [1]	100 mg/m ³ (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	20 ppm (indicative limit value)
Sweden	NGV (OEL TWA)	100 mg/m ³ (Trimethylbenzenes)
Sweden	NGV (OEL TWA) [ppm]	20 ppm (Trimethylbenzenes)
Sweden	KTV (OEL STEL)	170 mg/m ³ (Trimethylbenzenes)
Sweden	KTV (OEL STEL) [ppm]	35 ppm (Trimethylbenzenes)
Norway	Grenseverdi (OEL TWA) [1]	100 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	20 ppm
Norway	Korttidsverdi (OEL STEL)	125 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	30 ppm (value calculated)
USA - NIOSH	NIOSH REL TWA	125 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	25 ppm

8.2. Exposure controls

Engineering measure(s)

: Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Take precautionary measures against static discharge. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Eye wash bottle with pure water . Organisational measures to prevent /limit releases, dispersion and exposure : See also section 7 .

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.



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Hand protection	: Wear chemically resistant gloves (tested to EN374) . Suitable material: Butyl caoutchouc (butyl rubber). NBR (Nitrile rubber). Thickness : Not determined. Breakthrough time : Not determined. 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.
Eye protection	: Use suitable eye protection. Safety glasses (EN 166). face shield
Body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. full face mask (DIN EN 136) (EN136). Half-face mask (DIN EN 140) (EN140). Filter type: A (EN141).
Thermal hazard protection	: Not required for normal conditions of use.
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

Physical state	: Liquid
Appearance	: liquid.
Colour	: Characteristic.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: > 23 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable,(liquid)
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: No data available
Dynamic 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.
Oxidising 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.
Explosive limits	: No data available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable



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Particle aggregation state : Not applicable
Particle agglomeration state : Not applicable
Particle specific surface area : Not applicable
Particle dustiness : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No data available

9.2.2. Other safety characteristics

VOC content : 54 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid. Reference to other sections 10.5.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air. No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. See Section 7 for information on safe handling.

10.5. Incompatible materials

Oxidising agents. Strong acids. Strong bases. See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

Reference to other sections 5.2.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

n-butyl acetate (123-86-4)	
LD50/oral/rat	10768 mg/kg
LD50/dermal/rabbit	> 17600 mg/kg
LC50/inhalation/4h/rat	23,4 mg/l (OECD 403; In Vivo; Aerosol)
xylene (1330-20-7)	
LD50/oral/rat	3500 mg/kg
LD50/dermal/rabbit	> 4350 mg/kg
LC50/inhalation/4h/rat	29,08 mg/l/4h
2-butoxyethyl acetate (112-07-2)	
LD50/oral/rat	8532 mg/kg
LD50/dermal/rabbit	1500 mg/kg
LC50/inhalation/4h/rat (ppm)	> 400 ppm/4h
Naphtha (petroleum), hydrodesulfurized heavy (64742-82-1)	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rabbit	> 3160 mg/kg



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2-methoxy-1-methylethyl acetate (108-65-6)

LD50/oral/rat	8532 mg/kg
LD50/dermal/rabbit	> 5 g/kg
LC50/inhalation/4h/rat	16000 mg/m ³ (Exposure time: 6 h)
1,2,4-trimethylbenzene (95-63-6)	
LD50/oral/rat	3280 mg/kg
LD50/dermal/rat	3440 mg/kg No mortality observed at this dose.
LD50/dermal/rabbit	> 3160 mg/kg
LC50/inhalation/4h/rat	18 g/m ³ (Exposure time: 4 h)
LC50 Inhalation - Rat (Vapours)	10,2 mg/l/4h No mortality observed at this dose.

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: No data available
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: No data available
Respiratory or 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)

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Kinematic viscosity	No data available
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Other information	: Symptoms related to the physical, chemical and toxicological characteristics. Reference to other sections 4.2.
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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
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11.2.2 Other information

Other information	: Symptoms related to the physical, chemical and toxicological characteristics, Reference to other sections 4.2
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SECTION 12: Ecological information

12.1. Toxicity

Environmental properties	: Ecological injuries are not known or expected under normal use.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified



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n-butyl acetate (123-86-4)	
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])
EC50 72h - Algae [1]	674,7 mg/l (Species: Desmodesmus subspicatus)
xylene (1330-20-7)	
LC50 - Fish [1]	13,4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	2,661 – 4,093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	3,82 mg/l (Exposure time: 48 h - Species: water flea)
EC50 - Crustacea [2]	0,6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris)
2-butoxyethyl acetate (112-07-2)	
EC50 - Crustacea [1]	37 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	> 500 mg/l (Species: Desmodesmus subspicatus)
2-methoxy-1-methylethyl acetate (108-65-6)	
LC50 - Fish [1]	161 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	> 500 mg/l (Exposure time: 48 h - Species: Daphnia magna)
1,2,4-trimethylbenzene (95-63-6)	
LC50 - Fish [1]	7,19 – 8,28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	6,14 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

Touch Up Pencil DG	
Persistence and degradability	No data available.

12.3. Bioaccumulative potential

Touch Up Pencil DG	
Partition coefficient n-octanol/water	No data available

n-butyl acetate (123-86-4)	
Partition coefficient n-octanol/water	1,81 (at 23 °C)

xylene (1330-20-7)	
BCF - Fish [1]	0,6 – 15
Partition coefficient n-octanol/water	2,77 – 3,15

2-butoxyethyl acetate (112-07-2)	
BCF - Fish [1]	(no significant bioaccumulation)
Partition coefficient n-octanol/water	1,51



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2-methoxy-1-methylethyl acetate (108-65-6)

Partition coefficient n-octanol/water 0,43

1,2,4-trimethylbenzene (95-63-6)

Partition coefficient n-octanol/water 3,63

12.4. Mobility in soil

Touch Up Pencil DG

Ecology - soil This information is not available.

12.5. Results of PBT and vPvB assessment

Touch Up Pencil DG

Results of PBT assessment Not applicable

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Not applicable

12.7. Other adverse effects

Additional information : No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Handle with care. See Section 7 for information on safe handling . 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 of contaminated materials in accordance with current regulations.

Additional information : Delivery to an approved waste disposal company. Dispose of contaminated materials in accordance with current regulations.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : 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

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1263	1263	1263	Not applicable	1263
14.2. UN proper shipping name				
PAINT RELATED MATERIAL	Not applicable	Not applicable	Not applicable	Not applicable
Transport document description				
UN 1263 PAINT RELATED MATERIAL, 3, III, (D/E)	UN 1263 , 3, III	UN 1263 , 3	Not applicable	UN 1263 , 3

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ADR	IMDG	IATA	ADN	RID
14.3. Transport hazard class(es)				
3	3	3	Not applicable	3
	Not applicable	Not applicable	Not applicable	
14.4. Packing group				
III	III	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Not applicable	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

Special precautions for user : Special Provision 640E

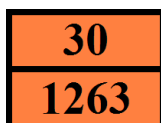
- Overland transport

Classification code (ADR) : F1

Excepted quantities (ADR) : E1

Hazard identification number (Kemler No.) : 30

Orange plates :



Tunnel restriction code : D/E

EAC code : •3Y

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

Not applicable

- Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

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(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Touch Up Pencil DG ; 2-methoxy-1-methylethyl acetate ; xylene ; n-butyl acetate ; 1,2,4-trimethylbenzene
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3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Touch Up Pencil DG ; 2-methoxy-1-methylethyl acetate ; 2-butoxyethyl acetate ; xylene ; n-butyl acetate ; 1,2,4-trimethylbenzene
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	1,2,4-trimethylbenzene
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.	Touch Up Pencil DG ; 2-methoxy-1-methylethyl acetate ; Naphtha (petroleum), hydrodesulfurized heavy ; xylene ; n-butyl acetate ; 1,2,4-trimethylbenzene

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 54 %

15.1.2. National regulations

France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
4331.text	Liquides inflammables de catégorie 2 ou catégorie 3 à l'exclusion de la rubrique 4330. La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant :		
4331.1	1. Supérieure ou égale à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	A	2
4331.2	2. Supérieure ou égale à 100 t mais inférieure à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	E	
4331.3	3. Supérieure ou égale à 50 t mais inférieure à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	DC	

Germany

Regulatory reference : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

Risk classification according to VbF : A I - Liquids with a flashpoint below 21°C

German storage class (LGK) : LGK 3 - Flammable liquids

Hazardous Incident Ordinance (12. BImSchV) : Listed in the 12. BImSchV (Annex I) under: 1.2.5.3
Quantity threshold for operational area under § 1 para. 1

- Sentence 1: 5000000 kg
- Sentence 2: 50000000 kg

Netherlands

Waterbezwaarlijkheid : B (4) - Weinig schadelijk voor in het water levende organismen

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed



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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : xylene is listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

Not required

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

2-methoxy-1-methylethyl acetate
n-butyl acetate

SECTION 16: Other information

Indication of changes:

1.1	Trade name/designation	Modified	
1.2	Main use category	Added	
1.2	Use of the substance/mixture	Modified	
2.3	ED text	Added	
4.1	Description of first aid measures	Modified	
4.3	Indication of any immediate medical attention and special treatment needed	Added	
5.2	Specific hazards	Modified	
5.3	Firefighting instructions	Modified	
6.1	For non-emergency personnel	Modified	
6.2	Environmental precautions	Modified	
6.3	Methods for cleaning up	Modified	
7.1	Hygiene measures	Modified	
7.2	Storage conditions	Modified	
7.3	Specific end use(s)	Added	
8.2	Hand protection	Modified	
10	Stability and reactivity	Modified	
11.2	Adverse health effects caused by endocrine disrupting properties	Added	
11.2	Adverse health effects caused by endocrine disrupting properties	Added	
12.5	Results of PBT assessment	Modified	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Modified	
14.7	Maritime transport in bulk according to IMO instruments	Modified	



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15.1	Installations classées	Added	
15.1	Water hazard class (WGK)	Modified	
15.1	Hazardous Incident Ordinance (12. BImSchV)	Added	
15.1	Waterbezwaarlijkheid	Modified	
16	Training advice	Added	

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).
vPvB = very persistent and very bioaccumulating
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the datasheet : European Chemicals Bureau SDS Supplier.

Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Other information : Calculation method. Article 9 (CLP 1272/2008).

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
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, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.



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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.
EUH066	Repeated exposure may cause skin dryness or cracking.

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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