

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Revision date: 7/25/2024 Supersedes version of: 1/7/2021 Version: 3.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : PDC® F-874 MURACULON [low voc] C4 BLUE  
Product code : F874105C4  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Coating

##### 1.2.2. Uses advised against

No additional information available

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

##### Manufacturer

Plasti Dip International, Inc.  
3920 Pheasant Ridge Drive  
Blaine, MN 55449  
Phone - (763) 785-2156

##### Distributor

Global Express  
7 Indian Path  
Millstone, NJ 08535  
(732) 977-0605

##### EU Importer of Record

Plasti Dip UK Ltd.  
Unit 1 Harvesting Lane  
PETERSFIELD  
GU32 1QR  
United Kingdom

#### 1.4. Emergency telephone number

##### Manufacturer Emergency number

CHEMTREC: 1-800-424-9300 (US);  
+1 703-741-5970 (International)

##### Distributor Emergency Number

CHEMTREC: 1-800-424-9300 (US);  
+1 703-741-5970 (International)

##### Importer Emergency Number

CHEMTREC: 1-800-424-9300 (US);  
+1 703-741-5970 (International)

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008

Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Carcinogenicity, Category 2	H351
Reproductive toxicity, Category 2	H361
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity – Repeated exposure, Category 2	H373
Aspiration hazard, Category 1	H304
Full text of H-statements: see section 16	

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS07

GHS08

Signal word (CLP) :

Danger

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Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H351 - Suspected of causing cancer. H361 - Suspected of damaging fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP)	: 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/hearing protection. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

The mixture contains Methyl ethyl ketone (CAS#78-93-3), which is 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, at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetone	CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8	30 – 60	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Methyl ethyl ketone	CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3	7 – 13	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Toluene	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3	7 – 13	Flam. Liq. 2, H225 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
Xylene	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9	1 – 5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315
Ethylbenzene	CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4	0.1 – 1	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Titanium dioxide	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2	0.1 – 1	Carc. 2, H351
Stoddard solvent	CAS-No.: 8052-41-3 EC-No.: 232-489-3 EC Index-No.: 649-345-00-4	0.1 – 1	Carc. 1B, H350 Muta. 1B, H340 Asp. Tox. 1, H304 STOT RE 1, H372

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

## SECTION 4: First Aid measures

### 4.1. Description of first aid measures

First-aid measures general	: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.
First-aid measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention immediately.
First-aid measures after eye contact	: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing if pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.
First-aid measures after ingestion	: IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.

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

Symptoms/effects	: May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging fertility. Suspected of damaging the unborn child. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.
Chronic symptoms	: Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.

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

No additional information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray. Sand.
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### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: Heating may cause an explosion.
Reactivity in case of fire	: None known.

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Hazardous decomposition products in case of fire : Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases, including carbon oxides and other organic compounds will be evolved when this material undergoes thermal degradation.

### 5.3. Advice for firefighters

Precautionary measures fire : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus and protective suit (see item 8).

## SECTION 6: Accidental release measures

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

General measures : Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.  
Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Prevent entry to sewers and public waters.  
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Exclude sources of ignition and ventilate the area. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

### 6.4. Reference to other sections

See Sections 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep away from sources of ignition - No smoking.

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

Storage conditions : Keep the container tightly closed. Store in a dry, cool and well-ventilated place. Keep away from ignition sources.  
Storage temperature : < 49 °C (<120 °F)

### 7.3. Specific end use(s)

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. National occupational exposure and biological limit values

Toluene (108-88-3)	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	192 mg/m <sup>3</sup>
IOEL TWA [ppm]	50 ppm
IOEL STEL	384 mg/m <sup>3</sup>
IOEL STEL [ppm]	100 ppm
Notes	Possibility of significant uptake through the skin
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	190 mg/m <sup>3</sup>
MAK (OEL TWA) [ppm]	50 ppm
MAK (OEL STEL)	380 mg/m <sup>3</sup>
MAK (OEL STEL) [ppm]	100 ppm
Chemical category	Skin notation
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	77 mg/m <sup>3</sup>
OEL TWA	20 ppm
OEL STEL	384 mg/m <sup>3</sup>
OEL STEL	100 ppm
Chemical category	Skin, Skin notation
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
OEL TWA	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
OEL STEL	100 ppm
<b>Bulgaria - Biological limit values</b>	
BLV	1.6 mmol/mmol Creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: at the end of exposure or end of work shift
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA) [1]	192 mg/m <sup>3</sup>
GVI (OEL TWA) [2]	50 ppm
KGVI (OEL STEL)	384 mg/m <sup>3</sup>
KGVI (OEL STEL) [ppm]	100 ppm
Chemical category	Skin notation

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Toluene (108-88-3)	
<b>Croatia - Biological limit values</b>	
BLV	1 mg/l Parameter: Toluene - Medium: blood - Sampling time: at the end of the work shift 20 ppm Medium: final exhaled air - Sampling time: during exposure 2.5 g/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine) 1 mg/g creatinine Parameter: o-Cresol - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine)
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
OEL TWA	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
OEL STEL	100 ppm
Chemical category	Skin-potential for cutaneous absorption
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	200 mg/m <sup>3</sup>
Chemical category	Potential for cutaneous absorption
<b>Czech Republic - Biological limit values</b>	
BLV	1.6 µmol/mmol Creatinine Parameter: o-Cresol - Medium: urine - Sampling time: end of shift (after hydrolysis) 1000 µmol/mmol Creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift (exposure testing using the o-Cresol parameter to precisely measure Toluene exposure is needed if the value of Hippuric acid is between 1600 and 2500 mg/g of Creatinine, no additional testing is needed if the Hippuric acid value is >2500 mg/g of Creatinine as work exposure to Toluene will have highly exceeded the PEL value.) 1.5 mg/g creatinine Parameter: o-Cresol - Medium: urine - Sampling time: end of shift (after hydrolysis) 1600 mg/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift (exposure testing using the o-Cresol parameter to precisely measure Toluene exposure is needed if the value of Hippuric acid is between 1600 and 2500 mg/g of Creatinine, no additional testing is needed if the Hippuric acid value is >2500 mg/g of Creatinine as work exposure to Toluene will have highly exceeded the PEL value.)
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA [1]	94 mg/m <sup>3</sup>
OEL TWA [2]	25 ppm
OEL STEL	188 mg/m <sup>3</sup>
OEL STEL	50 ppm
Chemical category	Potential for cutaneous absorption
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
OEL TWA	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
OEL STEL	100 ppm
Chemical category	Skin notation
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA) [1]	81 mg/m <sup>3</sup>

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<b>Toluene (108-88-3)</b>	
HTP (OEL TWA) [2]	25 ppm
HTP (OEL STEL)	380 mg/m <sup>3</sup>
HTP (OEL STEL) [ppm]	100 ppm
Chemical category	Potential for cutaneous absorption
<b>Finland - Biological limit values</b>	
BLV	500 nmol/L Parameter: Toluene - Medium: blood - Sampling time: in the morning after a working day
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	76.8 mg/m <sup>3</sup> TWA [VME] (restrictive limit)
VME (OEL TWA) [ppm]	20 ppm TWA [VME] (restrictive limit)
VLE (OEL C/STEL)	384 mg/m <sup>3</sup> STEL [VLCT] (restrictive limit)
VLE (OEL C/STEL) [ppm]	100 ppm STEL [VLCT] (restrictive limit)
Chemical category	risk of cutaneous absorption
<b>France - Biological limit values</b>	
BLV	20 µg/l Parameter: Toluene - Medium: blood - Sampling time: end of workweek (Semi-quantitative (ambiguous interpretation)) Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	190 mg/m <sup>3</sup>
AGW (OEL TWA) [2]	50 ppm
AGW (OEL C)	760 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	200 ppm
Chemical category	Skin notation
<b>Germany - Biological limit values (TRGS 903)</b>	
BLV	600 µg/l Parameter: Toluene - Medium: whole blood - Sampling time: immediately after exposure 75 µg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift 1.5 mg/l Parameter: o-Cresol (after hydrolysis) - Medium: urine - Sampling time: for long-term exposures: at the end of the shift after several shifts 1.5 mg/l Parameter: o-Cresol (after hydrolysis) - Medium: urine - Sampling time: end of shift
<b>Gibraltar - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
OEL TWA	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
OEL STEL	100 ppm
Chemical category	Skin notation
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
OEL TWA	50 ppm
OEL STEL	384 mg/m <sup>3</sup>

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<b>Toluene (108-88-3)</b>	
OEL STEL	100 ppm
Chemical category	skin - potential for cutaneous absorption
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	190
CK (OEL STEL)	380 mg/m <sup>3</sup>
Chemical category	Potential for cutaneous absorption
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA [1]	192 mg/m <sup>3</sup>
OEL TWA [2]	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
OEL STEL	100 ppm
Chemical category	Potential for cutaneous absorption
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
OEL TWA	50 ppm
Chemical category	skin - potential for cutaneous absorption
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	50 mg/m <sup>3</sup>
OEL TWA	14 ppm
OEL STEL	150 mg/m <sup>3</sup>
OEL STEL	40 ppm
Chemical category	skin - potential for cutaneous exposure
<b>Latvia - Biological limit values</b>	
BEI	1.6 g/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift 0.05 mg/l Parameter: Toluene - Medium: blood - Sampling time: end of shift
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	192 mg/m <sup>3</sup>
IPRV (OEL TWA) [ppm]	50 ppm
TPRV (OEL STEL)	384 mg/m <sup>3</sup>
TPRV (OEL STEL) [ppm]	100 ppm
Chemical category	Reproductive toxin, Skin notation
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
OEL TWA	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
OEL STEL	100 ppm
Chemical category	Possibility of significant uptake through the skin
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>

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<b>Toluene (108-88-3)</b>	
OEL TWA	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
OEL STEL	100 ppm
Chemical category	Possibility of significant uptake through the skin
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	150 mg/m <sup>3</sup>
TGG-8u (OEL TWA) [ppm]	39 ppm
TGG-15min (OEL STEL)	384 mg/m <sup>3</sup>
TGG-15min (OEL STEL) [ppm]	100 ppm
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	100 mg/m <sup>3</sup>
NDSCh (OEL STEL)	200 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup> (indicative limit value)
OEL TWA	50 ppm (indicative limit value)
OEL STEL	384 mg/m <sup>3</sup> (indicative limit value)
OEL STEL	100 ppm (indicative limit value)
Chemical category	A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure indicative limit value
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
OEL TWA	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
OEL STEL	100 ppm
Chemical category	Skin notation
<b>Romania - Biological limit values</b>	
BLV	2 g/l Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift 3 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA) [1]	192 mg/m <sup>3</sup>
NPHV (OEL TWA) [2]	50 ppm
NPHV (OEL C)	384 mg/m <sup>3</sup>
Chemical category	Potential for cutaneous absorption
<b>Slovakia - Biological limit values</b>	
BLV	600 µg/l Parameter: Toluene - Medium: blood - Sampling time: end of exposure or work shift 1.5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: after all work shifts (for long-term exposure) 1.5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of exposure or work shift 1600 mg/g creatinine Parameter: Hippuric acid - Sampling time: end of exposure or work shift

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<b>Toluene (108-88-3)</b>	
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
OEL TWA	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
OEL STEL	100 ppm
Chemical category	Category 2, Potential for cutaneous absorption
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA) [1]	191 mg/m <sup>3</sup>
VLA-ED (OEL TWA) [2]	50 ppm
VLA-EC (OEL STEL)	384 mg/m <sup>3</sup>
VLA-EC (OEL STEL) [ppm]	100 ppm
Chemical category	skin - potential for cutaneous absorption
<b>Spain - Biological limit values</b>	
BLV	0.6 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift 0.05 mg/l Parameter: Toluene - Medium: blood - Sampling time: start of last shift of workweek 0.08 mg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	192 mg/m <sup>3</sup>
NGV (OEL TWA) [ppm]	50 ppm
KGV (OEL STEL)	384 mg/m <sup>3</sup>
KGV (OEL STEL) [ppm]	100 ppm
Chemical category	Skin notation
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	191 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	384 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	100 ppm
WEL chemical category	Potential for cutaneous absorption
<b>Norway - Occupational Exposure Limits</b>	
Grønseverdi (OEL TWA) [1]	94 mg/m <sup>3</sup>
Grønseverdi (OEL TWA) [2]	25 ppm
Korttidsverdi (OEL STEL)	141 mg/m <sup>3</sup> (value calculated)
Korttidsverdi (OEL STEL) [ppm]	37.5 ppm (value calculated)
Chemical category	Skin notation
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA) [1]	190 mg/m <sup>3</sup>
MAK (OEL TWA) [2]	50 ppm
KZGW (OEL STEL)	760 mg/m <sup>3</sup>
KZGW (OEL STEL) [ppm]	200 ppm

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<b>Toluene (108-88-3)</b>	
Chemical category	Skin notation, Category 2 reproductive toxin
<b>Switzerland - Biological limit values</b>	
BAT	600 µg/l Parameter: Toluene - Medium: whole blood - Sampling time: end of shift 6.48 µmol/l Parameter: Toluene - Medium: whole blood - Sampling time: end of shift 2 g/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) 0.5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) 4.62 µmol/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) 75 µg/l Parameter: Toluol - Medium: urine - Sampling time: end of shift
<b>Turkey - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
OEL TWA	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
OEL STEL	100 ppm
Chemical category	Skin notation
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Toluene
ACGIH OEL TWA [ppm]	20 ppm
Remark (ACGIH)	TLV® Basis: CNS, visual & hearing impair; female repro system eff; pregnancy loss. Notations: OTO; A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2024
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	Toluene
BEI	0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: prior to last shift of workweek 0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift 0.3 mg/g creatinine Parameter: o-Cresol with hydrolysis - Medium: urine - Sampling time: end of shift (background)
Regulatory reference	ACGIH 2024
<b>Ethylbenzene (100-41-4)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	442 mg/m <sup>3</sup>
IOEL TWA [ppm]	100 ppm
IOEL STEL	884 mg/m <sup>3</sup>
IOEL STEL [ppm]	200 ppm
Notes	Possibility of significant uptake through the skin
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	440 mg/m <sup>3</sup>
MAK (OEL TWA) [ppm]	100 ppm

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<b>Ethylbenzene (100-41-4)</b>	
MAK (OEL STEL)	880 mg/m <sup>3</sup>
MAK (OEL STEL) [ppm]	200 ppm
Chemical category	Skin notation
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
OEL TWA	100 ppm
OEL STEL	551 mg/m <sup>3</sup>
OEL STEL	125 ppm
Chemical category	Skin, Skin notation
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	435 mg/m <sup>3</sup>
OEL STEL	545 mg/m <sup>3</sup>
<b>Bulgaria - Biological limit values</b>	
BLV	2000 mg/g creatinine Parameter: Mandelic acid and Phenylglyoxylic acid - total - Medium: urine - Sampling time: at the end of exposure or end of work shift (possible significant absorption through the skin)
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA) [1]	442 mg/m <sup>3</sup>
GVI (OEL TWA) [2]	100 ppm
KGVI (OEL STEL)	884 mg/m <sup>3</sup>
KGVI (OEL STEL) [ppm]	200 ppm
Chemical category	Skin notation
<b>Croatia - Biological limit values</b>	
BLV	1.5 mg/l Parameter: Ethylbenzene - Medium: blood - Sampling time: during exposure 1.5 g/g creatinine Parameter: Mandelic acid - Medium: urine - Sampling time: at the end of the work shift and at the end of the working week (calculated on the average Creatinine value of 1.2 g/L urine)
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
OEL TWA	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
OEL STEL	200 ppm
Chemical category	Skin-potential for cutaneous absorption
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	200 mg/m <sup>3</sup>
Chemical category	Potential for cutaneous absorption
<b>Czech Republic - Biological limit values</b>	
BLV	1100 µmol/mmol Creatinine Parameter: Mandelic acid - Medium: urine - Sampling time: end of shift 1500 mg/g creatinine Parameter: Mandelic acid - Medium: urine - Sampling time: end of shift

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<b>Ethylbenzene (100-41-4)</b>	
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA [1]	217 mg/m <sup>3</sup>
OEL TWA [2]	50 ppm
OEL STEL	434 mg/m <sup>3</sup>
OEL STEL	100 ppm
Chemical category	Potential for cutaneous absorption
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
OEL TWA	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
OEL STEL	200 ppm
Chemical category	Skin notation, Sensitizer
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA) [1]	220 mg/m <sup>3</sup>
HTP (OEL TWA) [2]	50 ppm
HTP (OEL STEL)	880 mg/m <sup>3</sup>
HTP (OEL STEL) [ppm]	200 ppm
Chemical category	Potential for cutaneous absorption
<b>Finland - Biological limit values</b>	
BLV	Parameter: Mandelic acid - Medium: urine - Sampling time: after the shift after a working week or exposure period
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	88.4 mg/m <sup>3</sup> TWA [VME] (restrictive limit)
VME (OEL TWA) [ppm]	20 ppm TWA [VME] (restrictive limit)
VLE (OEL C/STEL)	442 mg/m <sup>3</sup> STEL [VLCT] (restrictive limit)
VLE (OEL C/STEL) [ppm]	100 ppm STEL [VLCT] (restrictive limit)
Chemical category	risk of cutaneous absorption
<b>France - Biological limit values</b>	
BLV	Parameter: Mandelic acid - Medium: urine - Sampling time: end of shift at end of workweek (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	88 mg/m <sup>3</sup>
AGW (OEL TWA) [2]	20 ppm
AGW (OEL C)	176 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	40 ppm
Chemical category	Skin notation
<b>Germany - Biological limit values (TRGS 903)</b>	
BLV	250 mg/g creatinine Parameter: Mandelic acid plus Phenylglyoxylic acid - Medium: urine - Sampling time: end of shift

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<b>Ethylbenzene (100-41-4)</b>	
<b>Gibraltar - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
OEL TWA	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
OEL STEL	200 ppm
Chemical category	Skin notation
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	435 mg/m <sup>3</sup>
OEL TWA	100 ppm
OEL STEL	545 mg/m <sup>3</sup>
OEL STEL	125 ppm
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	442 mg/m <sup>3</sup>
CK (OEL STEL)	884 mg/m <sup>3</sup>
Chemical category	Potential for cutaneous absorption
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA [1]	442 mg/m <sup>3</sup>
OEL TWA [2]	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
OEL STEL	200 ppm
Chemical category	Potential for cutaneous absorption
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
OEL TWA	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
OEL STEL	200 ppm
Chemical category	skin - potential for cutaneous absorption
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
OEL TWA	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
OEL STEL	200 ppm
Chemical category	skin - potential for cutaneous exposure
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	442 mg/m <sup>3</sup>
IPRV (OEL TWA) [ppm]	100 ppm
TPRV (OEL STEL)	884 mg/m <sup>3</sup>
TPRV (OEL STEL) [ppm]	200 ppm
Chemical category	Skin notation

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<b>Ethylbenzene (100-41-4)</b>	
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
OEL TWA	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
OEL STEL	200 ppm
Chemical category	Possibility of significant uptake through the skin
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
OEL TWA	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
OEL STEL	200 ppm
Chemical category	Possibility of significant uptake through the skin
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	215 mg/m <sup>3</sup>
TGG-8u (OEL TWA) [ppm]	48.6 ppm
TGG-15min (OEL STEL)	430 mg/m <sup>3</sup>
TGG-15min (OEL STEL) [ppm]	97.3 ppm
MAC chemical category	Skin notation
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	200 mg/m <sup>3</sup>
NDSCh (OEL STEL)	400 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup> (indicative limit value)
OEL TWA	100 ppm (indicative limit value)
OEL STEL	884 mg/m <sup>3</sup> (indicative limit value)
OEL STEL	200 ppm (indicative limit value)
Chemical category	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, skin - potential for cutaneous exposure indicative limit value
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
OEL TWA	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
OEL STEL	200 ppm
Chemical category	Skin notation
<b>Romania - Biological limit values</b>	
BLV	1.5 g/g creatinine Parameter: Mandelic acid - Medium: urine - Sampling time: end of work week
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA) [1]	442 mg/m <sup>3</sup>
NPHV (OEL TWA) [2]	100 ppm

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<b>Ethylbenzene (100-41-4)</b>	
NPHV (OEL C)	884 mg/m <sup>3</sup>
Chemical category	Potential for cutaneous absorption
<b>Slovakia - Biological limit values</b>	
BLV	12 mg/l Parameter: 2 and 4-Ethylphenol - Medium: urine - Sampling time: end of exposure or work shift (also after all work shifts for long-term exposure) 1600 mg/l Parameter: Mandelic acid and Phenylglycolic acid - Medium: urine - Sampling time: end of exposure or work shift (also after all work shifts for long-term exposure)
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
OEL TWA	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
OEL STEL	200 ppm
Chemical category	Potential for cutaneous absorption
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA) [1]	441 mg/m <sup>3</sup>
VLA-ED (OEL TWA) [2]	100 ppm
VLA-EC (OEL STEL)	884 mg/m <sup>3</sup>
VLA-EC (OEL STEL) [ppm]	200 ppm
Chemical category	skin - potential for cutaneous absorption
<b>Spain - Biological limit values</b>	
BLV	700 mg/g creatinine Parameter: Mandelic acid plus Phenylglyoxylic acid - Medium: urine - Sampling time: end of workweek
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	220 mg/m <sup>3</sup>
NGV (OEL TWA) [ppm]	50 ppm
KGV (OEL STEL)	884 mg/m <sup>3</sup>
KGV (OEL STEL) [ppm]	200 ppm
Chemical category	Skin notation
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	441 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	100 ppm
WEL STEL (OEL STEL)	552 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	125 ppm
WEL chemical category	Potential for cutaneous absorption
<b>Norway - Occupational Exposure Limits</b>	
Grønseverdi (OEL TWA) [1]	20 mg/m <sup>3</sup>
Grønseverdi (OEL TWA) [2]	5 ppm
Korttidsverdi (OEL STEL)	30 mg/m <sup>3</sup> (value calculated)
Korttidsverdi (OEL STEL) [ppm]	10 ppm (value calculated)
Chemical category	Skin notation, Carcinogen

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<b>Ethylbenzene (100-41-4)</b>	
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA) [1]	435 mg/m <sup>3</sup>
MAK (OEL TWA) [2]	100 ppm
KZGW (OEL STEL)	435 mg/m <sup>3</sup>
KZGW (OEL STEL) [ppm]	100 ppm
Chemical category	Skin notation
<b>Switzerland - Biological limit values</b>	
BAT	600 mg/g creatinine Parameter: Mandelic acid and Phenylglyoxylacid - Medium: urine - Sampling time: end of shift (see also Styrene)
<b>Turkey - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
OEL TWA	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
OEL STEL	200 ppm
Chemical category	Skin notation
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Ethylbenzene
ACGIH OEL TWA [ppm]	20 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; ototoxicity; kidney eff; CNS impair. Notations: OTO (Ototoxicant); A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2023
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	ETHYLBENZENE
BEI	0.15 g/g creatinine Parameter: Sum of mandelic acid and phenylglyoxylic acid (with hydrolysis) - Medium: urine - Sampling time: End of shift - Notations: Ns
Regulatory reference	ACGIH 2023
<b>Acetone (67-64-1)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	1210 mg/m <sup>3</sup>
IOEL TWA [ppm]	500 ppm
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	1200 mg/m <sup>3</sup>
MAK (OEL TWA) [ppm]	500 ppm
MAK (OEL STEL)	4800 mg/m <sup>3</sup>
MAK (OEL STEL) [ppm]	2000 ppm
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	594 mg/m <sup>3</sup>
OEL TWA	246 ppm

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Acetone (67-64-1)	
OEL STEL	1187 mg/m <sup>3</sup>
OEL STEL	492 ppm
Bulgaria - Occupational Exposure Limits	
OEL TWA	600 mg/m <sup>3</sup>
OEL STEL	1400 mg/m <sup>3</sup>
Bulgaria - Biological limit values	
BLV	80 mg/l Parameter: Acetone - Medium: urine - Sampling time: at the end of exposure or end of work shift
Croatia - Occupational Exposure Limits	
GVI (OEL TWA) [1]	1210 mg/m <sup>3</sup>
GVI (OEL TWA) [2]	500 ppm
Croatia - Biological limit values	
BLV	20 mg/l Parameter: Acetone - Medium: blood - Sampling time: at the end of the work shift (interference of endogenous Acetone (<1.3 mg/L)) 20 mg/g creatinine Parameter: Acetone - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine)
Cyprus - Occupational Exposure Limits	
OEL TWA	1210 mg/m <sup>3</sup>
OEL TWA	500 ppm
Chemical category	Skin-potential for cutaneous absorption
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	800 mg/m <sup>3</sup>
Denmark - Occupational Exposure Limits	
OEL TWA [1]	600 mg/m <sup>3</sup>
OEL TWA [2]	250 ppm
OEL STEL	1200 mg/m <sup>3</sup>
OEL STEL	500 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	1210 mg/m <sup>3</sup>
OEL TWA	500 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	1200 mg/m <sup>3</sup>
HTP (OEL TWA) [2]	500 ppm
HTP (OEL STEL)	1500 mg/m <sup>3</sup>
HTP (OEL STEL) [ppm]	630 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	1210 mg/m <sup>3</sup> (restrictive limit)
VME (OEL TWA) [ppm]	500 ppm (restrictive limit)
VLE (OEL C/STEL)	2420 mg/m <sup>3</sup> (restrictive limit)
VLE (OEL C/STEL) [ppm]	1000 ppm (restrictive limit)

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Acetone (67-64-1)	
<b>France - Biological limit values</b>	
BLV	Parameter: Acetone - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	1200 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
AGW (OEL TWA) [2]	500 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
<b>Germany - Biological limit values (TRGS 903)</b>	
BLV	50 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift
<b>Gibraltar - Occupational Exposure Limits</b>	
OEL TWA	1210 mg/m <sup>3</sup>
OEL TWA	500 ppm
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	1780 mg/m <sup>3</sup>
OEL STEL	3560 mg/m <sup>3</sup>
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	1210 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA [1]	1210 mg/m <sup>3</sup>
OEL TWA [2]	500 ppm
OEL STEL	3630 mg/m <sup>3</sup> (calculated)
OEL STEL	1500 ppm (calculated)
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	1210 mg/m <sup>3</sup>
OEL TWA	500 ppm
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	1210 mg/m <sup>3</sup>
OEL TWA	500 ppm
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	1210 mg/m <sup>3</sup>
IPRV (OEL TWA) [ppm]	500 ppm
TPRV (OEL STEL)	2420 mg/m <sup>3</sup>
TPRV (OEL STEL) [ppm]	1000 ppm
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA	1210 mg/m <sup>3</sup>
OEL TWA	500 ppm
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA	1210 mg/m <sup>3</sup>

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<b>Acetone (67-64-1)</b>	
OEL TWA	500 ppm
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	1210 mg/m <sup>3</sup>
TGG-8u (OEL TWA) [ppm]	500 ppm
TGG-15min (OEL STEL)	2420 mg/m <sup>3</sup>
TGG-15min (OEL STEL) [ppm]	1 ppm
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	600 mg/m <sup>3</sup>
NDSCh (OEL STEL)	1800 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	1210 mg/m <sup>3</sup> (indicative limit value)
OEL TWA	500 ppm (indicative limit value)
OEL STEL	750 ppm
Chemical category	A4 - Not Classifiable as a Human Carcinogen
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	1210 mg/m <sup>3</sup>
OEL TWA	500 ppm
<b>Romania - Biological limit values</b>	
BLV	50 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA) [1]	1210 mg/m <sup>3</sup>
NPHV (OEL TWA) [2]	500 ppm
<b>Slovakia - Biological limit values</b>	
BLV	80 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of exposure or work shift
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	1210 mg/m <sup>3</sup>
OEL TWA	500 ppm
OEL STEL	2420 mg/m <sup>3</sup>
OEL STEL	1000 ppm
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA) [1]	1210 mg/m <sup>3</sup> (indicative limit value)
VLA-ED (OEL TWA) [2]	500 ppm (indicative limit value)
<b>Spain - Biological limit values</b>	
BLV	50 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	600 mg/m <sup>3</sup>
NGV (OEL TWA) [ppm]	250 ppm
KGV (OEL STEL)	1200 mg/m <sup>3</sup>

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Acetone (67-64-1)	
KGV (OEL STEL) [ppm]	500 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	1210 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	500 ppm
WEL STEL (OEL STEL)	3620 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	1500 ppm
<b>Norway - Occupational Exposure Limits</b>	
Grønseverdi (OEL TWA) [1]	295 mg/m <sup>3</sup>
Grønseverdi (OEL TWA) [2]	125 ppm
Korttidsverdi (OEL STEL)	368.75 mg/m <sup>3</sup> (value calculated)
Korttidsverdi (OEL STEL) [ppm]	156.25 ppm (value calculated)
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA) [1]	1200 mg/m <sup>3</sup>
MAK (OEL TWA) [2]	500 ppm
KZGW (OEL STEL)	2400 mg/m <sup>3</sup>
KZGW (OEL STEL) [ppm]	1000 ppm
<b>Switzerland - Biological limit values</b>	
BAT	50 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift Parameter: Acetone - Medium: urine - Sampling time: end of shift
<b>Turkey - Occupational Exposure Limits</b>	
OEL TWA	1210 mg/m <sup>3</sup>
OEL TWA	500 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Acetone
ACGIH OEL TWA [ppm]	250 ppm
ACGIH OEL STEL [ppm]	500 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2023
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	ACETONE
BEI	25 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift (nonspecific)
Regulatory reference	ACGIH 2023
<b>Methyl ethyl ketone (78-93-3)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	600 mg/m <sup>3</sup>
IOEL TWA [ppm]	200 ppm
IOEL STEL	900 mg/m <sup>3</sup>

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<b>Methyl ethyl ketone (78-93-3)</b>	
IOEL STEL [ppm]	300 ppm
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	295 mg/m <sup>3</sup>
MAK (OEL TWA) [ppm]	100 ppm
MAK (OEL STEL)	590 mg/m <sup>3</sup>
MAK (OEL STEL) [ppm]	200 ppm
Chemical category	Skin notation
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
OEL TWA	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
OEL STEL	300 ppm
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	590 mg/m <sup>3</sup>
OEL STEL	885 mg/m <sup>3</sup>
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA) [1]	600 mg/m <sup>3</sup>
GVI (OEL TWA) [2]	200 ppm
KGVI (OEL STEL)	900 mg/m <sup>3</sup>
KGVI (OEL STEL) [ppm]	300 ppm
<b>Croatia - Biological limit values</b>	
BLV	2.6 mg/g creatinine Parameter: Ethyl methyl ketone - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine)
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
OEL TWA	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
OEL STEL	300 ppm
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	600 mg/m <sup>3</sup>
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA [1]	145 mg/m <sup>3</sup>
OEL TWA [2]	50 ppm
OEL STEL	290 mg/m <sup>3</sup>
OEL STEL	100 ppm
Chemical category	Potential for cutaneous absorption
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
OEL TWA	200 ppm

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<b>Methyl ethyl ketone (78-93-3)</b>	
OEL STEL	900 mg/m <sup>3</sup>
OEL STEL	300 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA) [1]	60 mg/m <sup>3</sup>
HTP (OEL TWA) [2]	20 ppm
HTP (OEL STEL)	300 mg/m <sup>3</sup>
HTP (OEL STEL) [ppm]	100 ppm
Chemical category	Potential for cutaneous absorption
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	600 mg/m <sup>3</sup>
VME (OEL TWA) [ppm]	200 ppm
VLE (OEL C/STEL)	900 mg/m <sup>3</sup>
VLE (OEL C/STEL) [ppm]	300 ppm
Chemical category	risk of cutaneous absorption
<b>France - Biological limit values</b>	
BLV	Parameter: Methyl ethyl ketone - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	600 mg/m <sup>3</sup>
AGW (OEL TWA) [2]	200 ppm
AGW (OEL C)	600 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	200 ppm
Chemical category	Skin notation
<b>Germany - Biological limit values (TRGS 903)</b>	
BLV	2 mg/l Parameter: 2-Butanone - Medium: urine - Sampling time: end of shift
<b>Gibraltar - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
OEL TWA	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
OEL STEL	300 ppm
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
OEL TWA	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
OEL STEL	300 ppm
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	600 mg/m <sup>3</sup>
CK (OEL STEL)	900 mg/m <sup>3</sup>

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<b>Methyl ethyl ketone (78-93-3)</b>	
Chemical category	Potential for cutaneous absorption
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA [1]	600 mg/m <sup>3</sup>
OEL TWA [2]	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
OEL STEL	300 ppm
Chemical category	Potential for cutaneous absorption
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
OEL TWA	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
OEL STEL	300 ppm
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	200 mg/m <sup>3</sup>
OEL TWA	67 ppm
OEL STEL	900 mg/m <sup>3</sup>
OEL STEL	300 ppm
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
OEL TWA	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
OEL STEL	300 ppm
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
OEL TWA	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
OEL STEL	300 ppm
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	590 mg/m <sup>3</sup>
TGG-8u (OEL TWA) [ppm]	197 ppm
TGG-15min (OEL STEL)	900 mg/m <sup>3</sup>
TGG-15min (OEL STEL) [ppm]	300 ppm
MAC chemical category	Skin notation
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	590
NDSCh (OEL STEL)	900
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup> (indicative limit value)
OEL TWA	200 ppm (indicative limit value)

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<b>Methyl ethyl ketone (78-93-3)</b>	
OEL STEL	900 mg/m <sup>3</sup> (indicative limit value)
OEL STEL	300 ppm (indicative limit value)
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
OEL TWA	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
OEL STEL	300 ppm
<b>Romania - Biological limit values</b>	
BLV	2 mg/l Parameter: Methylethylketone - Medium: urine - Sampling time: end of shift
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA) [1]	600 mg/m <sup>3</sup>
NPHV (OEL TWA) [2]	200 ppm
NPHV (OEL C)	900 mg/m <sup>3</sup>
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
OEL TWA	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
OEL STEL	300 ppm
Chemical category	Potential for cutaneous absorption
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA) [1]	600 mg/m <sup>3</sup>
VLA-ED (OEL TWA) [2]	200 ppm
VLA-EC (OEL STEL)	900 mg/m <sup>3</sup>
VLA-EC (OEL STEL) [ppm]	300 ppm
<b>Spain - Biological limit values</b>	
BLV	2 mg/l Parameter: Methyl ethyl ketone - Medium: urine - Sampling time: end of shift
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	150 mg/m <sup>3</sup>
NGV (OEL TWA) [ppm]	50 ppm
KGV (OEL STEL)	900 mg/m <sup>3</sup>
KGV (OEL STEL) [ppm]	600 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	600 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	200 ppm
WEL STEL (OEL STEL)	899 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	300 ppm
WEL chemical category	Potential for cutaneous absorption
<b>Norway - Occupational Exposure Limits</b>	
Grønseverdi (OEL TWA) [1]	220 mg/m <sup>3</sup>

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<b>Methyl ethyl ketone (78-93-3)</b>	
Grenseverdi (OEL TWA) [2]	75 ppm
Korttidsverdi (OEL STEL)	275 mg/m <sup>3</sup> (value calculated)
Korttidsverdi (OEL STEL) [ppm]	112.5 ppm (value calculated)
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA) [1]	590 mg/m <sup>3</sup>
MAK (OEL TWA) [2]	200 ppm
KZGW (OEL STEL)	590 mg/m <sup>3</sup>
KZGW (OEL STEL) [ppm]	200 ppm
Chemical category	Skin notation
<b>Switzerland - Biological limit values</b>	
BAT	2 mg/l Parameter: 2-Butanone - Medium: urine - Sampling time: end of shift, before subsequent shift or 16 hour 27.7 µmol/l Parameter: 2-Butanone - Medium: urine - Sampling time: end of shift, before subsequent shift or 16 hour
<b>Turkey - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
OEL TWA	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
OEL STEL	300 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Methyl ethyl ketone (MEK)
ACGIH OEL TWA [ppm]	200 ppm
ACGIH OEL STEL [ppm]	300 ppm
Remark (ACGIH)	TLV® Basis: Embryo/fetal dam; URT irr; headache; dizziness. Notations: Skin; BEI
Regulatory reference	ACGIH 2024
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	Methyl ethyl ketone
BEI	2 mg/l Parameter: MEK - Medium: urine - Sampling time: end of shift (nonspecific)
Regulatory reference	ACGIH 2024
<b>Xylene (1330-20-7)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	221 mg/m <sup>3</sup>
IOEL TWA [ppm]	50 ppm
IOEL STEL	442 mg/m <sup>3</sup>
IOEL STEL [ppm]	100 ppm
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	221 mg/m <sup>3</sup>
MAK (OEL TWA) [ppm]	50 ppm
MAK (OEL STEL)	442
MAK (OEL STEL) [ppm]	100 ppm

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<b>Xylene (1330-20-7)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	221
OEL TWA	50 ppm
OEL STEL	442 mg/m <sup>3</sup>
OEL STEL	100 ppm
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA [1]	109 mg/m <sup>3</sup>
OEL TWA [2]	25 ppm
OEL STEL	218 mg/m <sup>3</sup>
OEL STEL	50 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA) [1]	220 mg/m <sup>3</sup>
HTP (OEL TWA) [2]	50 ppm
HTP (OEL STEL)	440 mg/m <sup>3</sup>
HTP (OEL STEL) [ppm]	100 ppm
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	221 mg/m <sup>3</sup> [VME] (restrictive limit)
VME (OEL TWA) [ppm]	50 ppm [VME] (restrictive limit)
VLE (OEL C/STEL)	442 mg/m <sup>3</sup> [VLCT] (restrictive limit)
VLE (OEL C/STEL) [ppm]	100 ppm [VLCT] (restrictive limit)
Chemical category	risk of cutaneous absorption
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	440 mg/m <sup>3</sup>
AGW (OEL TWA) [2]	100 ppm
AGW (OEL C)	880 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	200 ppm
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	221 mg/m <sup>3</sup>
CK (OEL STEL)	442 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA [1]	221 mg/m <sup>3</sup>
OEL TWA [2]	50 ppm
OEL STEL	442 mg/m <sup>3</sup>
OEL STEL	100 ppm
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	50 ppm TWA (pure)
OEL STEL	100 ppm STEL (pure)
Chemical category	skin - potential for cutaneous absorption

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<b>Xylene (1330-20-7)</b>	
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	221 mg/m <sup>3</sup>
OEL TWA	50 ppm
OEL STEL	442 mg/m <sup>3</sup>
OEL STEL	100 ppm
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	100 mg/m <sup>3</sup>
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	221 mg/m <sup>3</sup>
OEL TWA	50 ppm
OEL STEL	422 mg/m <sup>3</sup>
OEL STEL	100 ppm
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA) [1]	221 mg/m <sup>3</sup>
VLA-ED (OEL TWA) [2]	50 ppm
VLA-EC (OEL STEL)	442 mg/m <sup>3</sup>
VLA-EC (OEL STEL) [ppm]	100 ppm
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	221 mg/m <sup>3</sup>
NGV (OEL TWA) [ppm]	50 ppm
KGV (OEL STEL)	442 mg/m <sup>3</sup>
KGV (OEL STEL) [ppm]	100 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	221 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	442 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	100 ppm
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA) [1]	435 mg/m <sup>3</sup>
MAK (OEL TWA) [2]	100 ppm
KZGW (OEL STEL)	870 mg/m <sup>3</sup>
KZGW (OEL STEL) [ppm]	200 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Xylene, mixed isomers (Dimethylbenzene)
ACGIH OEL TWA	221 mg/m <sup>3</sup>
ACGIH OEL TWA [ppm]	50 ppm
ACGIH OEL STEL	442 mg/m <sup>3</sup>
ACGIH OEL STEL [ppm]	100 ppm

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<b>Xylene (1330-20-7)</b>	
Remark (ACGIH)	TLV® Basis: URT & eye irr; hematologic eff; ototoxicity (for mixtures containing p-xylene); CNS impair. Notations: OTO (for mixtures containing p-xylene); A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2023
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	XYLENES (Technical or commercial grade)
BEI	1.5 g/g creatinine Parameter: Methylhippuric acids - Medium: urine - Sampling time: End of shift
Regulatory reference	ACGIH 2023
<b>Stoddard solvent (8052-41-3)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	533 mg/m <sup>3</sup>
OEL TWA	100 ppm
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	200 mg/m <sup>3</sup>
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA [1]	145 mg/m <sup>3</sup> (= <20% Aromatic compounds)
OEL TWA [2]	25 ppm (= <20% Aromatic compounds)
OEL STEL	290 mg/m <sup>3</sup> (= <20% Aromatic compounds)
OEL STEL	50 ppm (= <20% Aromatic compounds)
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	300 mg/m <sup>3</sup>
OEL TWA	50 ppm
OEL STEL	600 mg/m <sup>3</sup>
OEL STEL	100 ppm
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	575 mg/m <sup>3</sup>
OEL TWA	100 ppm
OEL STEL	720 mg/m <sup>3</sup>
OEL STEL	125 ppm
<b>Hungary - Occupational Exposure Limits</b>	
Chemical category	Muta1B
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA [1]	573 mg/m <sup>3</sup>
OEL TWA [2]	100 ppm
Chemical category	Carc1B
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	300 mg/m <sup>3</sup>
IPRV (OEL TWA) [ppm]	50 ppm (approximate value)

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<b>Stoddard solvent (8052-41-3)</b>	
TPRV (OEL STEL)	600 mg/m <sup>3</sup> (used as paint solvents and thinners, Lignoine containing 17-22% of Aromatic compounds (about 15-20% by volume) and the boiling range is approximately 150-200°C, the approximate size of the ppm calculated as White spirit containing 22% of Aromatic substances)
TPRV (OEL STEL) [ppm]	100 ppm (approximate value)
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	300 mg/m <sup>3</sup> (varnish)
NDSCh (OEL STEL)	900 mg/m <sup>3</sup> (varnish (Benzin))
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	100 ppm
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	300 mg/m <sup>3</sup> (<2% aromatics) 175 mg/m <sup>3</sup> (2-25% aromatics)
NGV (OEL TWA) [ppm]	50 ppm (<2% aromatics) 30 ppm (2-25% aromatics)
KGV (OEL STEL)	600 mg/m <sup>3</sup> (<2% aromatics) 350 mg/m <sup>3</sup> (2-25% aromatics)
KGV (OEL STEL) [ppm]	100 ppm (<2% aromatics) 60 ppm (2-25% aromatics)
Chemical category	Skin notation 2-25% aromatics, Skin notation 2-25% aromatics
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Stoddard solvent
ACGIH OEL TWA [ppm]	100 ppm
Remark (ACGIH)	TLV® Basis: Eye, skin, & kidney dam; nausea; CNS impair
Regulatory reference	ACGIH 2023
<b>Titanium dioxide (13463-67-7)</b>	
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	5 mg/m <sup>3</sup> (alveolar dust, respirable fraction)
MAK (OEL STEL)	10 mg/m <sup>3</sup> (alveolar dust, respirable fraction)
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	10 mg/m <sup>3</sup>
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	10 mg/m <sup>3</sup> (respirable dust)
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA) [1]	10 mg/m <sup>3</sup> (total dust, inhalable particles) 4 mg/m <sup>3</sup> (respirable dust)
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA [1]	6 mg/m <sup>3</sup>
OEL STEL	12 mg/m <sup>3</sup>
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>

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Titanium dioxide (13463-67-7)	
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	11 mg/m <sup>3</sup>
Chemical category	Carcinogen category 2
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA) [1]	0.3 mg/m <sup>3</sup>
AGW (OEL C)	2.4 mg/m <sup>3</sup>
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	10 mg/m <sup>3</sup> (inhalable fraction) 5 mg/m <sup>3</sup> (respirable fraction)
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA [1]	10 mg/m <sup>3</sup>
OEL STEL	30 mg/m <sup>3</sup> (calculated-respirable dust) 12 mg/m <sup>3</sup> (calculated)
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	10 mg/m <sup>3</sup>
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	5 mg/m <sup>3</sup>
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	10 mg/m <sup>3</sup>
NDSP (OEL C)	30 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	10 mg/m <sup>3</sup>
Chemical category	A4 - Not Classifiable as a Human Carcinogen
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	10 mg/m <sup>3</sup>
OEL STEL	15 mg/m <sup>3</sup>
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA) [1]	5 mg/m <sup>3</sup>
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA) [1]	10 mg/m <sup>3</sup>
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	5 mg/m <sup>3</sup>
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA) [1]	10 mg/m <sup>3</sup> inhalable aerosol 4 mg/m <sup>3</sup> respirable aerosol
WEL STEL (OEL STEL)	30 mg/m <sup>3</sup> (calculated-total inhalable) 12 mg/m <sup>3</sup> (calculated-respirable)
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA) [1]	5 mg/m <sup>3</sup>
Korttidsverdi (OEL STEL)	10 mg/m <sup>3</sup> (value calculated)

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Titanium dioxide (13463-67-7)	
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA) [1]	3 mg/m <sup>3</sup> (respirable dust) 3 mg/m <sup>3</sup> (total dust limit values) 10 mg/m <sup>3</sup> (total dust limit values)
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Titanium dioxide
ACGIH OEL TWA	10 mg/m <sup>3</sup>
Remark (ACGIH)	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2024

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Protective goggles. Protective clothing. Insufficient ventilation: wear respiratory protection.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles [EN 166]

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. [EN 14605:2005 and EN 13034:2005]

##### Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier.

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### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with gas filter (type A2). Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. [EN 137]

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Blue.
Odour	: Characteristic. Solvent.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: -20 °C (-4 °F) (Acetone value)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Water: Slight
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: (Heavier than Air)
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
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 additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

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### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Ignition sources. Heat. Sparks. Open flame. Static electricity.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Hydrogen Chloride. Organic hydrocarbons.

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

Toluene (108-88-3)	
LD50 oral rat	5000 mg/kg
LD50 dermal rabbit	5000 mg/kg
LC50 Inhalation - Rat	384 mg/m <sup>3</sup>
LC50 Inhalation - Rat (Vapours)	> 20 mg/l Source: ECHA
Ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	15400 mg/kg
LC50 Inhalation - Rat	17.2 mg/l/4h
LC50 Inhalation - Rat [ppm]	4000 ppm Source: ECHA, Harmonized classification of EU CLP
Acetone (67-64-1)	
LD50 oral rat	5800 mg/kg (Source: NLM_CIP)
LD50 dermal rat	> 15700 mg/kg
LD50 dermal rabbit	> 15700 mg/kg (Source: OECD_SIDS)
LC50 Inhalation - Rat	50100 mg/m <sup>3</sup> (Exposure time: 8 h Source: OECD_SIDS)
LC50 Inhalation - Rat (Vapours)	76 mg/l Source: ECHA
Methyl ethyl ketone (78-93-3)	
LD50 oral rat	2483 mg/kg (Source: JAPAN_GHS)
LD50 oral	4000 mg/kg bodyweight
LD50 dermal rabbit	5000 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat [ppm]	11700 ppm/4h
LC50 Inhalation - Rat (Vapours)	32 mg/l Source: RTECS

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Xylene (1330-20-7)	
LD50 oral rat	3523 mg/kg
LD50 dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male, Remarks on results: other:
LC50 Inhalation - Rat	27124 mg/m <sup>3</sup> (air)
LC50 Inhalation - Rat [ppm]	5922 ppm

Stoddard solvent (8052-41-3)	
LD50 oral rat	5000 mg/kg Source: ChemIDplus
LD50 dermal rabbit	> 3000 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat	> 5.5 mg/l/4h

Titanium dioxide (13463-67-7)	
LD50 oral rat	> 10000 mg/kg
LC50 Inhalation - Rat	5.09 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 6.82 mg/l Source: ECHA

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.

Ethylbenzene (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans

Titanium dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: May cause drowsiness or dizziness.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.

### 11.2. Information on other hazards

The mixture contains Methyl ethyl ketone (CAS#78-93-3), which is 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, at a concentration equal to or greater than 0,1 %

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: No information available.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

The mixture contains Methyl ethyl ketone (CAS#78-93-3), which is 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, at a concentration equal to or greater than 0,1 %

### 12.7. Other adverse effects

Other adverse effects : No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.  
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

## SECTION 14: Transport information

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

### 14.1. UN number or ID number

UN-No. (ADR) : UN 1139  
UN-No. (IMDG) : UN 1139  
UN-No. (IATA) : UN 1139  
UN-No. (ADN) : UN 1139  
UN-No. (RID) : UN 1139

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : COATING SOLUTION  
Proper Shipping Name (IMDG) : COATING SOLUTION  
Proper Shipping Name (IATA) : Coating solution  
Proper Shipping Name (ADN) : COATING SOLUTION  
Proper Shipping Name (RID) : COATING SOLUTION  
Transport document description (ADR) : UN 1139 COATING SOLUTION, 3, II, (D/E)  
Transport document description (IMDG) : UN 1139 COATING SOLUTION, 3, II  
Transport document description (IATA) : UN 1139 Coating solution, 3, II  
Transport document description (ADN) : UN 1139 COATING SOLUTION, 3, II  
Transport document description (RID) : UN 1139 COATING SOLUTION, 3, II

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 3  
Danger labels (ADR) : 3



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### IMDG

Transport hazard class(es) (IMDG) : 3  
Danger labels (IMDG) : 3



### IATA

Transport hazard class(es) (IATA) : 3  
Danger labels (IATA) : 3



### ADN

Transport hazard class(es) (ADN) : 3  
Danger labels (ADN) : 3



### RID

Transport hazard class(es) (RID) : 3  
Danger labels (RID) : 3



## 14.4. Packing group

Packing group (ADR) : II  
Packing group (IMDG) : II  
Packing group (IATA) : II  
Packing group (ADN) : II  
Packing group (RID) : II

## 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

## 14.6. Special precautions for user

### Overland transport

Classification code (ADR) : F1  
Special provisions (ADR) : 640D  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E2  
Packing instructions (ADR) : P001, IBC02, R001  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T4

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Portable tank and bulk container special provisions (ADR) : TP1, TP8

Tank code (ADR) : LGBF

Vehicle for tank carriage : FL

Transport category (ADR) : 2

Special provisions for carriage - Operation (ADR) : S2, S20

Hazard identification number (Kemler No.) : 33

Orange plates : 

Tunnel restriction code (ADR) : D/E

EAC code : •3YE

### Transport by sea (IMDG)

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP1, TP8

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-E

Stowage category (IMDG) : B

Properties and observations (IMDG) : Miscibility with water depends upon the composition.

### Air transport (IATA)

PCA Excepted quantities (IATA) : E2

PCA Limited quantities (IATA) : Y341

PCA limited quantity max net quantity (IATA) : 1L

PCA packing instructions (IATA) : 353

PCA max net quantity (IATA) : 5L

CAO packing instructions (IATA) : 364

CAO max net quantity (IATA) : 60L

Special provisions (IATA) : A3

ERG code (IATA) : 3L

### Inland waterway transport

Classification code (ADN) : F1

Special provisions (ADN) : 640D

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E2

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 1

### Rail transport

Classification code (RID) : F1

Special provisions (RID) : 640D

Limited quantities (RID) : 5L

Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02, R001

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions (RID) : T4

Portable tank and bulk container special provisions (RID) : TP1, TP8

Tank codes for RID tanks (RID) : LGBF

Transport category (RID) : 2

Colis express (express parcels) (RID) : CE7

Hazard identification number (RID) : 33

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

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

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") as of Feb. 2019 or are otherwise exempt.

All the constituents of this preparation are registered in the EINECS inventory or in the ELINCS list

##### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : Benzene, Cumene, Vinyl chloride, Stoddard solvent, Methyl ethyl ketoxime are listed

SZW-lijst van mutagene stoffen : Benzene, Stoddard solvent are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen –

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : Toluene, Methyl alcohol, Xylene are listed

##### Denmark

Class for fire hazard : Class I-1

Store unit : 1 Liter

Classification remarks : F <Flam. Liq. 2> =; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : 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

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

##### Switzerland

Storage class (LK) : LK 3 - Flammable liquids

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

### Full text of H- and EUH-statements

Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2

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### Full text of H- and EUH-statements

Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.

### Abbreviations and acronyms

ACGIH	American Conference of Government Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
ED	Endocrine disrupting properties
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet

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Abbreviations and acronyms	
STOT	Specific target organ toxicity
TRGS	Technical Rules for Hazardous Substances
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Data sources : Globally Harmonized System of Classification and Labelling of Chemicals (GHS).  
Classification for the USA in accordance with 29 CFR 1910.1200 (2012).  
Classification for the EU in accordance with Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.  
ECHA (European Chemicals Agency).

Training advice : Normal use of this product shall imply use in accordance with the instructions for use and corresponding product packaging.

Indication of changes:

Revision 1.0: New SDS Created.

Revision 3.0: New Composition

Other information : Author: WJS

SDS prepared for Plasti Dip International, Inc. by:

Pace Analytical Services, Inc.

Product Regulatory Services Group

1800 Elm Street

Minneapolis, MN 55414

United States

612-656-1175

[paceSDS@pacelabs.com](mailto:paceSDS@pacelabs.com)

Classification according to Regulation (EC) No. 1272/2008	Classification procedure
Flammable liquids, Category 2	Test Data
Skin corrosion/irritation, Category 2	Specific concentration limit
Serious eye damage/eye irritation, Category 2	Specific concentration limit
Carcinogenicity, Category 2	Specific concentration limit
Reproductive toxicity, Category 2	Specific concentration limit
Specific target organ toxicity – Single exposure, Category 3, Narcosis	Specific concentration limit
Specific target organ toxicity – Repeated exposure, Category 2	Specific concentration limit
Aspiration toxicity – Category 1	Specific concentration limit

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.