

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

1.1. Product identifier

Product form : Mixture
Product name : F954 PDUV C1109 Tangerine Orange
Product code : GETF954154C1109-UV
Product group : Trade product
UFI :

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

1.2.1. Relevant identified uses

No additional information available

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

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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 — Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity — Repeated exposure, Category 2	H373
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

EUH-statements

- : Danger
- : Distillates, petroleum, light distillate hydrotreating process, low-boiling; Naphtha, petroleum, hydrotreated light; Solvent naphtha, petroleum, light aliphatic; Octane; Xylenes (o-, m-, p-isomers); n-Heptane; Ethylbenzene; Cyclohexane; Methyl ethyl ketone
- : H225 - Highly flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory 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 (hearing organs, central nervous system) through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.
- : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
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.
P331 - Do NOT induce vomiting.
- : EUH208 - Contains Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate(41556-26-7), Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidinyl ester(82919-37-7). May produce an allergic reaction.

2.3. Other hazards

Product has not been evaluated for endocrine disrupting properties.

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]
Naphtha, petroleum, hydrotreated light	CAS-No.: 64742-49-0 EC-No.: 265-151-9 EC Index-No.: 649-328-00-1	30 – 60	Carc. 1B, H350 Muta. 1B, H340 Asp. Tox. 1, H304
Solvent naphtha, petroleum, light aliphatic	CAS-No.: 64742-89-8 EC-No.: 265-192-2	30 – 60	Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
Distillates, petroleum, light distillate hydrotreating process, low-boiling	CAS-No.: 68410-97-9 EC-No.: 270-093-2	30 – 60	Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Xylenes (o-, m-, p- isomers) substance with a Community workplace exposure limit	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9	10 – 30	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315
n-Heptane substance with a Community workplace exposure limit	CAS-No.: 142-82-5 EC-No.: 205-563-8 EC Index-No.: 601-008-00-2	7 – 13	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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
Ethylbenzene substance with a Community workplace exposure limit	CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4	1 – 5	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304
Octane	CAS-No.: 111-65-9 EC-No.: 203-892-1	1 – 5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Cyclohexane substance with a Community workplace exposure limit	CAS-No.: 110-82-7 EC-No.: 203-806-2 EC Index-No.: 601-017-00-1	1 – 5	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	CAS-No.: 41556-26-7	0.1 – 1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidinyl ester	CAS-No.: 82919-37-7	0.1 – 1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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.
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. Get medical attention immediately. 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.

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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 respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. 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. May cause an allergic skin reaction.
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 : Foam. Carbon dioxide. Dry chemical.

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.
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. Prevent human exposure to fire, fumes, smoke and products of combustion.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: This material is flammable and may be ignited by heat, sparks, or static electricity.

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.

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Methods for cleaning up : Exclude sources of ignition and ventilate the area. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and as per local legislation.

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. Use only in well-ventilated areas. Avoid contact with skin and eyes. 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.

7.3. Specific end use(s)

Cleaner.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

Distillates, petroleum, light distillate hydrotreating process, low-boiling (68410-97-9)

EU - Biological Limit Value (BLV)

Remark	OELs not established
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United Kingdom - Occupational Exposure Limits

Remark (WEL)	OELs not established
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USA - ACGIH - Occupational Exposure Limits

Remark (ACGIH)	OELs not established
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Naphtha, petroleum, hydrotreated light (64742-49-0)

EU - Biological Limit Value (BLV)

Remark	OELs not established
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United Kingdom - Occupational Exposure Limits

Remark (WEL)	OELs not established
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USA - ACGIH - Occupational Exposure Limits

Remark (ACGIH)	OELs not established
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Solvent naphtha, petroleum, light aliphatic (64742-89-8)

EU - Biological Limit Value (BLV)

Remark	OELs not established
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United Kingdom - Occupational Exposure Limits

Remark (WEL)	OELs not established
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Solvent naphtha, petroleum, light aliphatic (64742-89-8)	
USA - ACGIH - Occupational Exposure Limits	
Remark (ACGIH)	OELs not established
Octane (111-65-9)	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	2400 mg/m ³
AGW (OEL TWA) [2]	500 ppm
AGW (OEL C)	4800 mg/m ³
AGW (OEL C) [ppm]	1000 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	1200 mg/m ³
WEL TWA (OEL TWA) [2]	210 ppm
USA - ACGIH - Occupational Exposure Limits	
Local name	Octane
ACGIH OEL TWA [ppm]	300 ppm
Remark (ACGIH)	URT irr
Regulatory reference	ACGIH 2018
n-Heptane (142-82-5)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	2085 mg/m ³
IOEL TWA [ppm]	500 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	2000 mg/m ³
MAK (OEL TWA) [ppm]	500 ppm
MAK (OEL STEL)	8000 mg/m ³
MAK (OEL STEL) [ppm]	2000 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	1664 mg/m ³
OEL TWA [ppm]	400 ppm
OEL STEL	2085 mg/m ³
OEL STEL [ppm]	500 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	820 mg/m ³
OEL TWA [2]	200 ppm
OEL STEL	1640 mg/m ³
OEL STEL [ppm]	400 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	1200 mg/m ³
HTP (OEL TWA) [2]	300 ppm

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n-Heptane (142-82-5)	
HTP (OEL STEL)	2100 mg/m ³
HTP (OEL STEL) [ppm]	500 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	1668 mg/m ³
VME (OEL TWA) [ppm]	400 ppm
VLE (OEL C/STEL)	2100 mg/m ³
VLE (OEL C/STEL) [ppm]	500 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	2100 mg/m ³
AGW (OEL TWA) [2]	500 ppm
AGW (OEL C)	2100 mg/m ³
AGW (OEL C) [ppm]	500 ppm
Ireland - Occupational Exposure Limits	
OEL TWA [1]	2085 mg/m ³
OEL TWA [2]	500 ppm
Italy - Occupational Exposure Limits	
OEL TWA	2085 mg/m ³
OEL TWA [ppm]	500 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	350 mg/m ³
OEL TWA [ppm]	85 ppm
OEL STEL	2085 mg/m ³
OEL STEL [ppm]	500 ppm
Netherlands - Occupational Exposure Limits	
MAC-TGG (OEL TWA)	1200 mg/m ³
MAC-15 (OEL STEL)	1600 mg/m ³
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [2]	500 ppm
USA - ACGIH - Occupational Exposure Limits	
Local name	Heptane, all isomers
ACGIH OEL TWA [ppm]	400 ppm
ACGIH OEL STEL [ppm]	500 ppm (listed under Heptane, all isomers)
Regulatory reference	ACGIH 2018
Toluene (108-88-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	192 mg/m ³
IOEL TWA [ppm]	50 ppm
IOEL STEL	384 mg/m ³
IOEL STEL [ppm]	100 ppm

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Toluene (108-88-3)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	190 mg/m ³
MAK (OEL TWA) [ppm]	50 ppm
MAK (OEL STEL)	380 mg/m ³
MAK (OEL STEL) [ppm]	100 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	77 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	384 mg/m ³
OEL STEL [ppm]	100 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	94 mg/m ³
OEL TWA [2]	25 ppm
OEL STEL	188 mg/m ³
OEL STEL [ppm]	50 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	81 mg/m ³
HTP (OEL TWA) [2]	25 ppm
HTP (OEL STEL)	380 mg/m ³
HTP (OEL STEL) [ppm]	100 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	76.8 mg/m ³ TWA [VME] (restrictive limit)
VME (OEL TWA) [ppm]	20 ppm TWA [VME] (restrictive limit)
VLE (OEL C/STEL)	384 mg/m ³ STEL [VLCT] (restrictive limit)
VLE (OEL C/STEL) [ppm]	100 ppm STEL [VLCT] (restrictive limit)
Chemical category	Risk of cutaneous absorption
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	190 mg/m ³
AGW (OEL TWA) [2]	50 ppm
AGW (OEL C)	760 mg/m ³
AGW (OEL C) [ppm]	200 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	190
CK (OEL STEL)	380 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	192 mg/m ³
OEL TWA [2]	50 ppm
OEL STEL	384 mg/m ³
OEL STEL [ppm]	100 ppm

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Toluene (108-88-3)	
Italy - Occupational Exposure Limits	
OEL TWA	192 mg/m ³
OEL TWA [ppm]	50 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	50 mg/m ³
OEL TWA [ppm]	14 ppm
OEL STEL	150 mg/m ³
OEL STEL [ppm]	40 ppm
Netherlands - Occupational Exposure Limits	
MAC-TGG (OEL TWA)	150 mg/m ³
MAC-15 (OEL STEL)	384 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	100 mg/m ³
NDSch (OEL STEL)	200 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	192 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	384 mg/m ³
OEL STEL [ppm]	100 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	191 mg/m ³
VLA-ED (OEL TWA) [2]	50 ppm
VLA-EC (OEL STEL)	384 mg/m ³
VLA-EC (OEL STEL) [ppm]	100 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	192 mg/m ³
NGV (OEL TWA) [ppm]	50 ppm
KTV (OEL STEL)	384 mg/m ³
KTV (OEL STEL) [ppm]	100 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	191 mg/m ³
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	384 mg/m ³
WEL STEL (OEL STEL) [ppm]	100 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	190 mg/m ³
MAK (OEL TWA) [2]	50 ppm
KZGW (OEL STEL)	760 mg/m ³
KZGW (OEL STEL) [ppm]	200 ppm

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Toluene (108-88-3)	
USA - ACGIH - Occupational Exposure Limits	
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
Regulatory reference	ACGIH 2021
Benzene (71-43-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	3.25 mg/m ³
IOEL TWA [ppm]	1 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	3.2 mg/m ³
MAK (OEL TWA) [ppm]	1 ppm
MAK (OEL STEL)	12.8 mg/m ³
MAK (OEL STEL) [ppm]	4 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	3.25 mg/m ³
OEL TWA [ppm]	1 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	1.6 mg/m ³
OEL TWA [2]	0.5 ppm
OEL STEL	3.2 mg/m ³
OEL STEL [ppm]	1 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	3.25 mg/m ³
HTP (OEL TWA) [2]	1 ppm
OEL TWA	3.25 mg/m ³
OEL TWA [ppm]	1 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	3.25 mg/m ³
VME (OEL TWA) [ppm]	1 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	1.9 mg/m ³
AGW (OEL TWA) [2]	0.6 ppm
AGW (OEL C)	15.2 mg/m ³
AGW (OEL C) [ppm]	4.8 ppm
Hungary - Occupational Exposure Limits	
CK (OEL STEL)	3 mg/m ³

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Benzene (71-43-2)	
Ireland - Occupational Exposure Limits	
OEL TWA [1]	3 mg/m ³
OEL TWA [2]	1 ppm
Italy - Occupational Exposure Limits	
OEL TWA	3.25 mg/m ³
OEL TWA [ppm]	1 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	3.25 mg/m ³
OEL TWA [ppm]	1 ppm
Netherlands - Occupational Exposure Limits	
MAC-TGG (OEL TWA)	3.25 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	1.6 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	3.25 mg/m ³
OEL TWA [ppm]	1 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	3.25 mg/m ³
VLA-ED (OEL TWA) [2]	1 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	1.5 mg/m ³
NGV (OEL TWA) [ppm]	0.5 ppm
KTV (OEL STEL)	9 mg/m ³
KTV (OEL STEL) [ppm]	3 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [2]	1 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	1.6 mg/m ³
MAK (OEL TWA) [2]	0.5 ppm
USA - ACGIH - Occupational Exposure Limits	
Local name	Benzene
ACGIH OEL TWA [ppm]	0.5 ppm
ACGIH OEL STEL [ppm]	2.5 ppm
Remark (ACGIH)	Leukemia
Regulatory reference	ACGIH 2018
Ethylbenzene (100-41-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	442 mg/m ³
IOEL TWA [ppm]	100 ppm

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Ethylbenzene (100-41-4)	
IOEL STEL	884 mg/m ³
IOEL STEL [ppm]	200 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	440 mg/m ³
MAK (OEL TWA) [ppm]	100 ppm
MAK (OEL STEL)	880 mg/m ³
MAK (OEL STEL) [ppm]	200 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	442 mg/m ³
OEL TWA [ppm]	100 ppm
OEL STEL	551 mg/m ³
OEL STEL [ppm]	125 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	217 mg/m ³
OEL TWA [2]	50 ppm
OEL STEL	434 mg/m ³
OEL STEL [ppm]	100 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	220 mg/m ³
HTP (OEL TWA) [2]	50 ppm
HTP (OEL STEL)	880 mg/m ³
HTP (OEL STEL) [ppm]	200 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	88.4 mg/m ³ TWA [VME] (restrictive limit)
VME (OEL TWA) [ppm]	20 ppm TWA [VME] (restrictive limit)
VLE (OEL C/STEL)	442 mg/m ³ STEL [VLCT] (restrictive limit)
VLE (OEL C/STEL) [ppm]	100 ppm STEL [VLCT] (restrictive limit)
Chemical category	Risk of cutaneous absorption
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	88 mg/m ³
AGW (OEL TWA) [2]	20 ppm
AGW (OEL C)	176 mg/m ³
AGW (OEL C) [ppm]	40 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	442 mg/m ³
CK (OEL STEL)	884 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	442 mg/m ³
OEL TWA [2]	100 ppm

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Ethylbenzene (100-41-4)	
OEL STEL	884 mg/m ³
OEL STEL [ppm]	200 ppm
Italy - Occupational Exposure Limits	
OEL TWA	442 mg/m ³
OEL TWA [ppm]	100 ppm
OEL STEL	884 mg/m ³
OEL STEL [ppm]	200 ppm
Chemical category	skin - potential for cutaneous absorption
Latvia - Occupational Exposure Limits	
OEL TWA	442 mg/m ³
OEL TWA [ppm]	100 ppm
OEL STEL	884 mg/m ³
OEL STEL [ppm]	200 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	200 mg/m ³
NDSch (OEL STEL)	400 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	442 mg/m ³
OEL TWA [ppm]	100 ppm
OEL STEL	884 mg/m ³
OEL STEL [ppm]	200 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	441 mg/m ³
VLA-ED (OEL TWA) [2]	100 ppm
VLA-EC (OEL STEL)	884 mg/m ³
VLA-EC (OEL STEL) [ppm]	200 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	220 mg/m ³
NGV (OEL TWA) [ppm]	50 ppm
KTV (OEL STEL)	884 mg/m ³
KTV (OEL STEL) [ppm]	200 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	441 mg/m ³
WEL TWA (OEL TWA) [2]	100 ppm
WEL STEL (OEL STEL)	552 mg/m ³
WEL STEL (OEL STEL) [ppm]	125 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	435 mg/m ³
MAK (OEL TWA) [2]	100 ppm

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Ethylbenzene (100-41-4)	
KZGW (OEL STEL)	435 mg/m ³
KZGW (OEL STEL) [ppm]	100 ppm
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethyl benzene
ACGIH OEL TWA [ppm]	20 ppm
Remark (ACGIH)	URT irr; kidney dam (nephropathy)
Regulatory reference	ACGIH 2018
Xylenes (o-, m-, p- isomers) (1330-20-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	221 mg/m ³
IOEL TWA [ppm]	50 ppm
IOEL STEL	442 mg/m ³
IOEL STEL [ppm]	100 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	221 mg/m ³
MAK (OEL TWA) [ppm]	50 ppm
MAK (OEL STEL)	442
MAK (OEL STEL) [ppm]	100 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	221
OEL TWA [ppm]	50 ppm
OEL STEL	442 mg/m ³
OEL STEL [ppm]	100 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	109 mg/m ³
OEL TWA [2]	25 ppm
OEL STEL	218 mg/m ³
OEL STEL [ppm]	50 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	220 mg/m ³
HTP (OEL TWA) [2]	50 ppm
HTP (OEL STEL)	440 mg/m ³
HTP (OEL STEL) [ppm]	100 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	221 mg/m ³ [VME] (restrictive limit)
VME (OEL TWA) [ppm]	50 ppm [VME] (restrictive limit)
VLE (OEL C/STEL)	442 mg/m ³ [VLCT] (restrictive limit)
VLE (OEL C/STEL) [ppm]	100 ppm [VLCT] (restrictive limit)
Chemical category	Risk of cutaneous absorption

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Xylenes (o-, m-, p- isomers) (1330-20-7)	
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	440 mg/m ³
AGW (OEL TWA) [2]	100 ppm
AGW (OEL C)	880 mg/m ³
AGW (OEL C) [ppm]	200 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	221 mg/m ³
CK (OEL STEL)	442 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	221 mg/m ³
OEL TWA [2]	50 ppm
OEL STEL	442 mg/m ³
OEL STEL [ppm]	100 ppm
Italy - Occupational Exposure Limits	
OEL TWA [ppm]	50 ppm TWA (pure)
OEL STEL [ppm]	100 ppm STEL (pure)
Chemical category	skin - potential for cutaneous absorption
Latvia - Occupational Exposure Limits	
OEL TWA	221 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	442 mg/m ³
OEL STEL [ppm]	100 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	100 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	221 mg/m ³
OEL TWA [ppm]	50 ppm
OEL STEL	422 mg/m ³
OEL STEL [ppm]	100 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	221 mg/m ³
VLA-ED (OEL TWA) [2]	50 ppm
VLA-EC (OEL STEL)	442 mg/m ³
VLA-EC (OEL STEL) [ppm]	100 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	221 mg/m ³
NGV (OEL TWA) [ppm]	50 ppm
KTV (OEL STEL)	442 mg/m ³
KTV (OEL STEL) [ppm]	100 ppm

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Xylenes (o-, m-, p- isomers) (1330-20-7)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	221 mg/m ³
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	442 mg/m ³
WEL STEL (OEL STEL) [ppm]	100 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	435 mg/m ³
MAK (OEL TWA) [2]	100 ppm
KZGW (OEL STEL)	870 mg/m ³
KZGW (OEL STEL) [ppm]	200 ppm
USA - ACGIH - Occupational Exposure Limits	
Local name	Xylene, mixed isomers (Dimethylbenzene)
ACGIH OEL TWA	221 mg/m ³
ACGIH OEL TWA [ppm]	50 ppm
ACGIH OEL STEL	442 mg/m ³
ACGIH OEL STEL [ppm]	100 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2021
USA - ACGIH - Biological Exposure Indices	
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 2021
Cyclohexane (110-82-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	700 mg/m ³
IOEL TWA [ppm]	200 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	700 mg/m ³
MAK (OEL TWA) [ppm]	200 ppm
MAK (OEL STEL)	2800 mg/m ³
MAK (OEL STEL) [ppm]	800 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	350 mg/m ³
OEL TWA [ppm]	100 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	172 mg/m ³
OEL TWA [2]	50 ppm

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Cyclohexane (110-82-7)	
OEL STEL	344 mg/m ³
OEL STEL [ppm]	100 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	350 mg/m ³
HTP (OEL TWA) [2]	100 ppm
HTP (OEL STEL)	875 mg/m ³
HTP (OEL STEL) [ppm]	250 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	700 mg/m ³
VME (OEL TWA) [ppm]	200 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	700 mg/m ³
AGW (OEL TWA) [2]	200 ppm
AGW (OEL C)	2800 mg/m ³
AGW (OEL C) [ppm]	800 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	700 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	700 mg/m ³
OEL TWA [2]	200 ppm
Italy - Occupational Exposure Limits	
OEL TWA	350 mg/m ³
OEL TWA [ppm]	100 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	80 mg/m ³
OEL TWA [ppm]	23 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	300 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	700 mg/m ³
OEL TWA [ppm]	200 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	700 mg/m ³
VLA-ED (OEL TWA) [2]	200 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	700 mg/m ³
NGV (OEL TWA) [ppm]	200 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	350 mg/m ³

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Cyclohexane (110-82-7)	
WEL TWA (OEL TWA) [2]	100 ppm
WEL STEL (OEL STEL)	1050 mg/m ³
WEL STEL (OEL STEL) [ppm]	300 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	100 ppm
Hexane (110-54-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	72 mg/m ³
IOEL TWA [ppm]	20 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	72
MAK (OEL TWA) [ppm]	20 ppm
MAK (OEL STEL)	288
MAK (OEL STEL) [ppm]	80 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	72 mg/m ³
OEL TWA [ppm]	20 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	90 mg/m ³
OEL TWA [2]	25 ppm
OEL STEL	180 mg/m ³
OEL STEL [ppm]	50 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	72 mg/m ³
HTP (OEL TWA) [2]	20 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	72 mg/m ³
VME (OEL TWA) [ppm]	20 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	180 mg/m ³
AGW (OEL TWA) [2]	50 ppm
AGW (OEL C)	1440 mg/m ³
AGW (OEL C) [ppm]	400 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	72 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	72 mg/m ³
OEL TWA [2]	20 ppm

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Hexane (110-54-3)	
Italy - Occupational Exposure Limits	
OEL TWA	72 mg/m ³
OEL TWA [ppm]	20 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	72 mg/m ³
OEL TWA [ppm]	20 ppm
Netherlands - Occupational Exposure Limits	
MAC-TGG (OEL TWA)	72 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	72 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	72 mg/m ³
OEL TWA [ppm]	20 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	72 mg/m ³
VLA-ED (OEL TWA) [2]	20 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	72 mg/m ³
NGV (OEL TWA) [ppm]	20 ppm
KTV (OEL STEL)	180 mg/m ³
KTV (OEL STEL) [ppm]	50 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	72 mg/m ³
WEL TWA (OEL TWA) [2]	20 ppm
USA - ACGIH - Occupational Exposure Limits	
Local name	n-Hexane
ACGIH OEL TWA [ppm]	50 ppm
Remark (ACGIH)	CNS impair; peripheral neuropathy; eye irr; Skin; BEI
Regulatory reference	ACGIH 2018
Cumene (98-82-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	100 mg/m ³
IOEL TWA [ppm]	20 ppm
IOEL STEL	250 mg/m ³
IOEL STEL [ppm]	50 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	100 mg/m ³
MAK (OEL TWA) [ppm]	20 ppm
MAK (OEL STEL)	250 mg/m ³

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Cumene (98-82-8)	
MAK (OEL STEL) [ppm]	50 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	100 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	250 mg/m ³
OEL STEL [ppm]	50 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	100 mg/m ³
OEL TWA [2]	20 ppm
OEL STEL	200 mg/m ³
OEL STEL [ppm]	40 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA) [1]	100 mg/m ³
HTP (OEL TWA) [2]	20 ppm
HTP (OEL STEL)	250 mg/m ³
HTP (OEL STEL) [ppm]	50 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	100 mg/m ³
VME (OEL TWA) [ppm]	20 ppm
VLE (OEL C/STEL)	250 mg/m ³
VLE (OEL C/STEL) [ppm]	50 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	50 mg/m ³
AGW (OEL TWA) [2]	10 ppm
AGW (OEL C)	200 mg/m ³
AGW (OEL C) [ppm]	40 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	100 mg/m ³
CK (OEL STEL)	250 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	100 mg/m ³
OEL TWA [2]	20 ppm
OEL STEL	250 mg/m ³
OEL STEL [ppm]	50 ppm
Italy - Occupational Exposure Limits	
OEL TWA	100 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	250 mg/m ³
OEL STEL [ppm]	50 ppm

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Cumene (98-82-8)	
Latvia - Occupational Exposure Limits	
OEL TWA	100 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	250 mg/m ³
OEL STEL [ppm]	50 ppm
Netherlands - Occupational Exposure Limits	
MAC-TGG (OEL TWA)	100 mg/m ³
MAC-15 (OEL STEL)	250 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	100 mg/m ³
NDSch (OEL STEL)	250 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	100 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	250 mg/m ³
OEL STEL [ppm]	50 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	100 mg/m ³
VLA-ED (OEL TWA) [2]	20 ppm
VLA-EC (OEL STEL)	250 mg/m ³
VLA-EC (OEL STEL) [ppm]	50 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	120 mg/m ³
NGV (OEL TWA) [ppm]	25 ppm
KTV (OEL STEL)	250 mg/m ³
KTV (OEL STEL) [ppm]	50 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	125 mg/m ³
WEL TWA (OEL TWA) [2]	25 ppm
WEL STEL (OEL STEL)	375 mg/m ³
WEL STEL (OEL STEL) [ppm]	75 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	100 mg/m ³
MAK (OEL TWA) [2]	20 ppm
KZGW (OEL STEL)	400 mg/m ³
KZGW (OEL STEL) [ppm]	80 ppm
USA - ACGIH - Occupational Exposure Limits	
Local name	Cumene
ACGIH OEL TWA [ppm]	50 ppm

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Cumene (98-82-8)	
Remark (ACGIH)	Eye, skin, & URT irr; CNS impair
Regulatory reference	ACGIH 2018
Methyl ethyl ketone (78-93-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	600 mg/m ³
IOEL TWA [ppm]	200 ppm
IOEL STEL	900 mg/m ³
IOEL STEL [ppm]	300 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	295 mg/m ³
MAK (OEL TWA) [ppm]	100 ppm
MAK (OEL STEL)	590 mg/m ³
MAK (OEL STEL) [ppm]	200 ppm
Belgium - Occupational Exposure Limits	
OEL TWA	600 mg/m ³
OEL TWA [ppm]	200 ppm
OEL STEL	900 mg/m ³
OEL STEL [ppm]	300 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	145 mg/m ³
OEL TWA [2]	50 ppm
OEL STEL	290 mg/m ³
OEL STEL [ppm]	100 ppm
Finland - Occupational Exposure Limits	
HTP (OEL STEL)	300 mg/m ³
HTP (OEL STEL) [ppm]	100 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	600 mg/m ³
VME (OEL TWA) [ppm]	200 ppm
VLE (OEL C/STEL)	900 mg/m ³
VLE (OEL C/STEL) [ppm]	300 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	600 mg/m ³
AGW (OEL TWA) [2]	200 ppm
AGW (OEL C)	600 mg/m ³
AGW (OEL C) [ppm]	200 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	600 mg/m ³
CK (OEL STEL)	900 mg/m ³

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Methyl ethyl ketone (78-93-3)	
Ireland - Occupational Exposure Limits	
OEL TWA [1]	600 mg/m ³
OEL TWA [2]	200 ppm
OEL STEL	900 mg/m ³
OEL STEL [ppm]	300 ppm
Italy - Occupational Exposure Limits	
OEL TWA	600 mg/m ³
OEL TWA [ppm]	200 ppm
OEL STEL	900 mg/m ³
OEL STEL [ppm]	300 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	200 mg/m ³
OEL TWA [ppm]	67 ppm
OEL STEL	900 mg/m ³
OEL STEL [ppm]	300 ppm
Netherlands - Occupational Exposure Limits	
MAC-TGG (OEL TWA)	590 mg/m ³
MAC-15 (OEL STEL)	900 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	590
NDSch (OEL STEL)	900
Romania - Occupational Exposure Limits	
OEL TWA	600 mg/m ³
OEL TWA [ppm]	200 ppm
OEL STEL	900 mg/m ³
OEL STEL [ppm]	300 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	600 mg/m ³
VLA-ED (OEL TWA) [2]	200 ppm
VLA-EC (OEL STEL)	900 mg/m ³
VLA-EC (OEL STEL) [ppm]	300 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	150 mg/m ³
NGV (OEL TWA) [ppm]	50 ppm
KTV (OEL STEL)	900 mg/m ³
KTV (OEL STEL) [ppm]	600 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	600 mg/m ³
WEL TWA (OEL TWA) [2]	200 ppm

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Methyl ethyl ketone (78-93-3)	
WEL STEL (OEL STEL)	899 mg/m ³
WEL STEL (OEL STEL) [ppm]	300 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	200 ppm
ACGIH OEL STEL [ppm]	300 ppm
Titanium dioxide (13463-67-7)	
Belgium - Occupational Exposure Limits	
OEL TWA	10 mg/m ³
Denmark - Occupational Exposure Limits	
OEL TWA [1]	6 mg/m ³
OEL STEL	12 mg/m ³
France - Occupational Exposure Limits	
VME (OEL TWA)	11 mg/m ³
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	0.3 mg/m ³
AGW (OEL C)	2.4 mg/m ³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	10 mg/m ³
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	10 mg/m ³
NDSP (OEL C)	30 mg/m ³
Romania - Occupational Exposure Limits	
OEL TWA	10 mg/m ³
OEL STEL	15 mg/m ³
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	10 mg/m ³
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	5 mg/m ³
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol
USA - ACGIH - Occupational Exposure Limits	
Local name	Titanium dioxide
ACGIH OEL TWA	10 mg/m ³
Remark (ACGIH)	LRT irr; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)
Regulatory reference	ACGIH 2018

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n-Butyl acetate (123-86-4)	
EU - Biological Limit Value (BLV)	
Remark	OELs not established
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	724 mg/m ³
WEL TWA (OEL TWA) [2]	150 ppm
WEL STEL (OEL STEL)	966 mg/m ³
WEL STEL (OEL STEL) [ppm]	200 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	150 ppm
ACGIH OEL STEL [ppm]	200 ppm (vapor)
Barium sulfate (7727-43-7)	
EU - Biological Limit Value (BLV)	
Remark	OELs not established
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	10 mg/m ³ inhalable aerosol 4 mg/m ³ respirable aerosol
USA - ACGIH - Occupational Exposure Limits	
Local name	Barium sulfate
ACGIH OEL TWA	5 mg/m ³
Remark (ACGIH)	Pneumoconiosis
Regulatory reference	ACGIH 2018
2-Methoxypropyl-1-acetate (70657-70-4)	
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	110 mg/m ³
MAK (OEL TWA) [ppm]	20 ppm
MAK (OEL STEL)	440 mg/m ³
MAK (OEL STEL) [ppm]	80 ppm
Denmark - Occupational Exposure Limits	
OEL TWA [1]	110 mg/m ³
OEL TWA [2]	20 ppm
OEL STEL	220 mg/m ³
OEL STEL [ppm]	40 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	28 mg/m ³
AGW (OEL TWA) [2]	5 ppm
AGW (OEL C)	224 mg/m ³
AGW (OEL C) [ppm]	40 ppm
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	28 mg/m ³

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2-Methoxypropyl-1-acetate (70657-70-4)	
VLA-ED (OEL TWA) [2]	5 ppm
VLA-EC (OEL STEL)	220 mg/m ³
VLA-EC (OEL STEL) [ppm]	40 ppm
Talc (14807-96-6)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m ³ particulate matter containing no asbestos and <1% crystalline silica, respirable fraction

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 167].

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. 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]. If these are not sufficient, then also use a half-mask respirator, selected in accordance with EN529.

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	: Tangerine Orange
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

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.

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10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Naphtha, petroleum, hydrotreated light (64742-49-0)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 Inhalation - Rat [ppm]	73680 ppm/4h

Solvent naphtha, petroleum, light aliphatic (64742-89-8)

LD50 oral rat	5000 mg/kg mouse; (Source: IUCLID)
LD50 dermal rabbit	3000 mg/kg (Source: IUCLID)

Octane (111-65-9)

LC50 Inhalation - Rat	118 g/m ³ 4 h
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n-Heptane (142-82-5)

LD50 oral rat	5000 mg/kg
LD50 dermal rabbit	3000 mg/kg
LC50 Inhalation - Rat	103 g/m ³ 4h

Ethylbenzene (100-41-4)

LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	15400 mg/kg
LC50 Inhalation - Rat	17.2 mg/l/4h

Xylenes (o-, m-, p- isomers) (1330-20-7)

LD50 oral rat	3500 mg/kg
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Cyclohexane (110-82-7)

LD50 oral rat	12705 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	13.9 mg/l/4h

Hexane (110-54-3)

LD50 dermal rabbit	3000 mg/kg
LC50 Inhalation - Rat [ppm]	48000 ppm/4h

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)

LD50 oral rat	2615 mg/kg
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Skin corrosion/irritation : Causes skin irritation.

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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
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Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: May cause drowsiness or dizziness. May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs (hearing organs, central nervous system) through prolonged or repeated exposure.
Aspiration hazard	: May be fatal if swallowed and enters airways.

11.2. Information on other hazards

11.2.1 Endocrine disrupting properties

Product has not been evaluated for endocrine disrupting properties.

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)	: Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

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Persistence and degradability	No information available.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	No information available.
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12.4. Mobility in soil

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Ecology - soil	No information available.
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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

Product has not been evaluated for endocrine disrupting properties.

12.7. Other adverse effects

No additional information available

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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

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 ((Contains: Xylene, Methyl Ethyl Ketone, Heptane)), 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1139 COATING SOLUTION ((Contains: Xylene, Methyl Ethyl Ketone, Heptane)), 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 1139 Coating solution, 3, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 1139 COATING SOLUTION, 3, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 1139 COATING SOLUTION, 3, II, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

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



IMDG

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



IATA

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

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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 : Yes
Marine pollutant : Yes
Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 640C
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions (ADR) : TP1, TP8
Tank code (ADR) : L1.5BN
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

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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)	: 640C
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)	: 640C
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001
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)	: L1.5BN
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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 REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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.

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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") of Feb. 2019, as amended Feb. 2021, or are otherwise exempt or regulated by other agencies such as FDA or FIFRA.

⚠ WARNING: This product can expose you to Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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 of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Naphtha, petroleum, hydrotreated light, Benzene, 2-Methoxypropyl-1-acetate are listed
SZW-lijst van mutagene stoffen : Naphtha, petroleum, hydrotreated light, Benzene, 2-Methoxypropyl-1-acetate 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 : Hexane is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : Toluene, Xylenes (o-, m-, p- isomers), 2-Methoxypropyl-1-acetate are listed

Denmark

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

Indication of changes:

Revision 2.0.

Other information : Author: EMA.

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Classification according to Regulation (EC) 1272/2008	Classification procedure
Flammable liquids, Category 2	Calculation method
Skin corrosion/irritation, Category 2	Calculation method
Serious eye damage/eye irritation, Category 2	Calculation method
Carcinogenicity, Category 2	Specific concentration limit
Reproductive toxicity, Category 2	Specific concentration limit
Specific target organ toxicity — Single exposure, Category 3, Narcosis	Calculation method
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	Calculation method
Specific target organ toxicity — Repeated exposure, Category 2	Calculation method
Aspiration hazard, Category 1	Calculation method
Hazardous to the aquatic environment — Chronic Hazard, Category 2	Calculation method

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.