

Safety Data Sheet

N10 CELLULOSE - MATT

Danger

Hazard statements:

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H361 Suspected of damaging fertility or the unborn child.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P280 Wear protective gloves/clothing and eye/face protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P370+P378 In case of fire: use a foam fire extinguisher to extinguish.

Special Provisions:

None

Contains

- xylene
- toluene
- ethyl acetate
- isobutyl acetate

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

>= 15% - < 20% xylene

REACH No.: 01-2119488216-32, Index number: 601-022-00-9, CAS: 1330-20-7, EC: 215-535-7


 2.6/3 Flam. Liq. 3 H226

 3.10/1 Asp. Tox. 1 H304

 3.3/2 Eye Irrit. 2 H319

 3.8/3 STOT SE 3 H335

 3.9/2 STOT RE 2 H373

 3.2/2 Skin Irrit. 2 H315

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 3.1/4/Dermal Acute Tox. 4 H312

 3.1/4/Inhal Acute Tox. 4 H332

>= 12.5% - < 15% toluene

REACH No.: 01-2119471310-51, Index number: 601-021-00-3, CAS: 108-88-3, EC: 203-625-9

 2.6/2 Flam. Liq. 2 H225

 3.7/2 Repr. 2 H361d

 3.10/1 Asp. Tox. 1 H304

 3.9/2 STOT RE 2 H373

 3.2/2 Skin Irrit. 2 H315

 3.8/3 STOT SE 3 H336

>= 10% - < 12.5% ethyl acetate

REACH No.: 01-2119475103-46, Index number: 607-022-00-5, CAS: 141-78-6, EC: 205-500-4

 2.6/2 Flam. Liq. 2 H225

 3.3/2 Eye Irrit. 2 H319

 3.8/3 STOT SE 3 H336

EUH066

>= 7% - < 10% isobutyl acetate

REACH No.: 01-2119488971-22, Index number: 607-026-00-7, CAS: 110-19-0, EC: 203-745-1

 2.6/2 Flam. Liq. 2 H225

 3.8/3 STOT SE 3 H336

EUH066

>= 3% - < 5% n-butyl acetate

REACH No.: 01-2119485493-29, Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1


 2.6/3 Flam. Liq. 3 H226

 3.8/3 STOT SE 3 H336

EUH066

>= 1% - < 3% propan-2-ol; isopropyl alcohol; isopropanol

REACH No.: 01-2119457558-25, Index number: 603-117-00-0, CAS: 67-63-0, EC: 200-661-7

 2.6/2 Flam. Liq. 2 H225

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 3.3/2 Eye Irrit. 2 H319

 3.8/3 STOT SE 3 H336

>= 1% - < 3% butan-1-ol; n-butanol

REACH No.: 01-2119484630-38, Index number: 603-004-00-6, CAS: 71-36-3, EC: 200-751-6


 2.6/3 Flam. Liq. 3 H226

 3.8/3 STOT SE 3 H335

 3.2/2 Skin Irrit. 2 H315

 3.3/1 Eye Dam. 1 H318

 3.8/3 STOT SE 3 H336

 3.1/4/Oral Acute Tox. 4 H302

>= 1% - < 3% 2-butoxyethanol; ethylene glycol monobutyl ether

REACH No.: 01-2119475108-36, Index number: 603-014-00-0, CAS: 111-76-2, EC: 203-905-0

 3.3/2 Eye Irrit. 2 H319

 3.2/2 Skin Irrit. 2 H315


 3.1/4/Oral Acute Tox. 4 H302

 3.1/4/Dermal Acute Tox. 4 H312

 3.1/4/Inhal Acute Tox. 4 H332


>= 1% - < 3% 2-methylpropan-1-ol; iso-butanol

REACH No.: 01-2119484609-23, Index number: 603-108-00-1, CAS: 78-83-1, EC: 201-148-0

 2.6/3 Flam. Liq. 3 H226

 3.8/3 STOT SE 3 H335

 3.2/2 Skin Irrit. 2 H315

 3.3/1 Eye Dam. 1 H318

 3.8/3 STOT SE 3 H336

>= 1% - < 3% 2-methoxy-1-methylethyl acetate

REACH No.: 01-2119475791-29, Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9





 2.6/3 Flam. Liq. 3 H226

>= 0.5% - < 1% Reaction mass of ethylbenzene and xylene

REACH No.: 01-2119539452-40, EC: 905-588-0





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-  2.6/3 Flam. Liq. 3 H226
-  3.1/4/Inhal Acute Tox. 4 H332
-  3.1/4/Dermal Acute Tox. 4 H312
-  3.2/2 Skin Irrit. 2 H315

480 ppm (2-methoxymethylethoxy)propanol
REACH No.: 01-2119450011-60, CAS: 34590-94-8, EC: 252-104-2
Substance with a Union workplace exposure limit.

61 ppm ethylbenzene
REACH No.: 01-2119489370-35, Index number: 601-023-00-4, CAS: 100-41-4, EC:
202-849-4

-  2.6/2 Flam. Liq. 2 H225
-  3.1/4/Inhal Acute Tox. 4 H332
-  3.9/2 STOT RE 2 H373
-  3.10/1 Asp. Tox. 1 H304

The full text of H-phrases is shown in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. OBTAIN IMMEDIATE MEDICAL ATTENTION.
Wash thoroughly the body (shower or bath).
Remove contaminated clothing immediately and dispose off safely.
After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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Treatment:
None

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
 - Suitable extinguishing media:
In case of fire: use a foam fire extinguisher to extinguish.
 - Extinguishing media which must not be used for safety reasons:
None in particular.
- 5.2. Special hazards arising from the substance or mixture
 - Do not inhale explosion and combustion gases.
 - Burning produces heavy smoke.
- 5.3. Advice for firefighters
 - Use suitable breathing apparatus .
 - Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
 - Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
 - Wear personal protection equipment.
 - Remove all sources of ignition.
 - Wear breathing apparatus if exposed to vapours/dusts/aerosols.
 - Provide adequate ventilation.
 - Use appropriate respiratory protection.
 - See protective measures under point 7 and 8.
- 6.2. Environmental precautions
 - Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
 - Retain contaminated washing water and dispose it.
 - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
 - Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
 - Wash with plenty of water.
- 6.4. Reference to other sections
 - See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
 - Avoid contact with skin and eyes, inhalation of vapours and mists.
 - Exercise the greatest care when handling or opening the container.
 - Use localized ventilation system.
 - Don't use empty container before they have been cleaned.
 - Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
 - Contaminated clothing should be changed before entering eating areas.
 - Do not eat or drink while working.
 - See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
 - Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
 - Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
 - Keep away from food, drink and feed.

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Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

xylene - CAS: 1330-20-7

EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Skin

ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

toluene - CAS: 108-88-3

EU - TWA(8h): 192 mg/m³, 50 ppm - STEL: 384 mg/m³, 100 ppm - Notes: Skin

ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - Visual impair, female repro, pregnancy loss

ethyl acetate - CAS: 141-78-6

ACGIH - TWA(8h): 400 ppm - Notes: URT and eye irr

isobutyl acetate - CAS: 110-19-0

ACGIH - TWA(8h): 713 mg/m³, 150 ppm - Notes: Eye and URT irr

n-butyl acetate - CAS: 123-86-4

ACGIH - TWA(8h): 713 mg/m³, 150 ppm - STEL: 150 ppm - Notes: Eye and URT irr

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm - Notes: A4, BEI - Eye and URT irr, CNS impair

butan-1-ol; n-butanol - CAS: 71-36-3

ACGIH - TWA(8h): 20 ppm - Notes: Eye and URT irr

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

EU - TWA(8h): 98 mg/m³, 20 ppm - STEL: 246 mg/m³, 50 ppm - Notes: Skin

ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - Eye and URT irr

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

ACGIH - TWA(8h): 50 ppm - Notes: Skin and eye irr

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

EU - TWA(8h): 275 mg/m³, 50 ppm - STEL: 550 mg/m³, 100 ppm - Notes: Skin

Reaction mass of ethylbenzene and xylene

EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Bold-type:

Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

(2-methoxymethylethoxy)propanol - CAS: 34590-94-8

EU - TWA(8h): 308 mg/m³, 50 ppm - Notes: Skin

ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: Skin - Eye and URT irr, CNS impair

ethylbenzene - CAS: 100-41-4

EU - TWA(8h): 442 mg/m³, 100 ppm - STEL: 884 mg/m³, 200 ppm - Notes: Skin

ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair

DNEL Exposure Limit Values

xylene - CAS: 1330-20-7

Worker Industry: 289 mg/m³ - Worker Professional: 289 mg/m³ - Consumer: 174 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

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Worker Industry: 77 mg/m³ - Worker Professional: 77 mg/m³ - Consumer: 14.8 mg/m³
- Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 180 mg/kg bw/d - Worker Professional: 180 mg/kg bw/d - Consumer:
108 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 1.6 mg/kg bw/d - Exposure: Human Oral
Frequency: Long Term, systemic effects

toluene - CAS: 108-88-3

Worker Industry: 384 mg/m³ - Worker Professional: 384 mg/m³ - Consumer: 226
mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 192 mg/m³ - Worker Professional: 192 mg/m³ - Consumer: 56.5
mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 8.13 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term,
systemic effects
Worker Industry: 384 mg/m³ - Worker Professional: 384 mg/m³ - Consumer: 226
mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

ethyl acetate - CAS: 141-78-6

Consumer: 4.5 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic
effects

Worker Professional: 1468 ppm - Consumer: 734 ppm - Exposure: Human Inhalation -
Frequency: Short Term, systemic effects

Worker Professional: 734 ppm - Consumer: 367 ppm - Exposure: Human Inhalation -
Frequency: Long Term, systemic effects

Worker Professional: 63 mg/kg - Consumer: 37 mg/kg - Exposure: Human Dermal -
Frequency: Long Term, systemic effects

isobutyl acetate - CAS: 110-19-0

Worker Industry: 300 mg/m³ - Worker Professional: 300 mg/m³ - Consumer: 35.7
mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 600 mg/m³ - Worker Professional: 600 mg/m³ - Consumer: 300
mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 10 mg/m³ - Worker Professional: 10 mg/m³ - Exposure: Human
Dermal - Frequency: Long Term, systemic effects

Worker Professional: 10 mg/kg bw/d - Exposure: Human Dermal - Frequency: Short
Term, systemic effects

Consumer: 5 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic
effects

n-butyl acetate - CAS: 123-86-4

Worker Industry: 960 mg/m³ - Worker Professional: 960 mg/m³ - Consumer: 859.7
mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 480 mg/m³ - Worker Professional: 480 mg/m³ - Consumer: 102.34
mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 7 mg/kg bw/d - Worker Professional: 7 mg/kg bw/d - Consumer: 3.4
mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 3.4 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic
effects

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

Consumer: 26 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic
effects

Worker Professional: 500 mg/m³ - Consumer: 89 mg/m³ - Exposure: Human Inhalation
- Frequency: Long Term, systemic effects

Worker Professional: 888 mg/kg bw/d - Consumer: 319 mg/kg bw/d - Exposure: Human
Dermal - Frequency: Long Term, systemic effects

butan-1-ol; n-butanol - CAS: 71-36-3

Consumer: 3.1 mg/kg bw/d - Exposure: Human Oral - Frequency: Short Term, systemic
effects

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Worker Professional: 310 mg/m³ - Consumer: 55 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
Worker Professional: 89 mg/kg - Consumer: 44.5 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Worker Professional: 135 ppm - Consumer: 426 ppm - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 50 ppm - Consumer: 123 ppm - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Professional: 75 mg/kg - Consumer: 38 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 20 ppm - Consumer: 49 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1
Worker Industry: 310 ppm - Worker Professional: 310 ppm - Consumer: 55 ppm - Exposure: Human Inhalation - Frequency: Long Term, local effects
Consumer: 25 mg/kg - Exposure: Human Oral - Frequency: Long Term, local effects

2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Consumer: 36 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Industry: 275 mg/m³ - Worker Professional: 275 mg/m³ - Consumer: 33 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 796 mg/kg bw/d - Worker Professional: 796 mg/kg bw/d - Consumer: 320 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 550 mg/m³ - Worker Professional: 550 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Reaction mass of ethylbenzene and xylene
Consumer: 260 ppm - Exposure: Human Inhalation - Frequency: Short Term (acute)
Consumer: 65.3 ppm - Exposure: Human Inhalation - Frequency: Long Term (repeated)

(2-methoxymethylethoxy)propanol - CAS: 34590-94-8
Consumer: 1.67 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Professional: 310 mg/m³ - Consumer: 37.2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 65 mg/kg - Consumer: 15 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

xylene - CAS: 1330-20-7
Target: Fresh Water - Value: 0.327 mg/l
Target: Marine water - Value: 0.327 mg/l
Target: Freshwater sediments - Value: 12.46 mg/kg
Target: Marine water sediments - Value: 12.46 mg/kg
Target: Soil (agricultural) - Value: 2.31 mg/kg

toluene - CAS: 108-88-3
Target: Fresh Water - Value: 0.68 mg/l
Target: Marine water - Value: 0.68 mg/l
Target: Freshwater sediments - Value: 16.39 mg/kg
Target: Marine water sediments - Value: 16.39 mg/kg
Target: Soil (agricultural) - Value: 2.89 mg/kg

ethyl acetate - CAS: 141-78-6
Target: Food chain - Value: 200 mg/kg
Target: Fresh Water - Value: 0.26 mg/l
Target: Freshwater sediments - Value: 1.25 mg/kg
Target: Microorganisms in sewage treatments - Value: 650 mg/l

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Target: Soil (agricultural) - Value: 0.24 mg/kg
isobutyl acetate - CAS: 110-19-0
Target: Freshwater sediments - Value: 0.877 mg/kg
Target: Marine water sediments - Value: 0.0877 mg/kg
Target: Microorganisms in sewage treatments - Value: 200 mg/l
Target: Fresh Water - Value: 0.17 mg/l
Target: Marine water - Value: 0.017 mg/l
n-butyl acetate - CAS: 123-86-4
Target: Soil (agricultural) - Value: 0.09 mg/kg
Target: Fresh Water - Value: 0.18 mg/l
Target: Marine water - Value: 0.018 mg/l
Target: Freshwater sediments - Value: 0.98 mg/kg
Target: Marine water sediments - Value: 0.09 mg/kg
propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
Target: Microorganisms in sewage treatments - Value: 2251 mg/l
Target: Fresh Water - Value: 140.9 mg/l
Target: Marine water - Value: 140.9 mg/l
Target: Freshwater sediments - Value: 552 mg/kg
Target: Soil (agricultural) - Value: 28 mg/kg
butan-1-ol; n-butanol - CAS: 71-36-3
Target: Soil (agricultural) - Value: 0.015 mg/kg
Target: Fresh Water - Value: 0.082 mg/l
Target: Marine water - Value: 0.0082 mg/l
Target: Freshwater sediments - Value: 0.178 mg/l
Target: Microorganisms in sewage treatments - Value: 2476 mg/l
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
Target: Fresh Water - Value: 8.8 mg/l
Target: Marine water - Value: 0.88 mg/l
Target: Freshwater sediments - Value: 34.6 mg/kg
Target: Marine water sediments - Value: 3.46 mg/kg
Target: Soil (agricultural) - Value: 2.8 mg/kg
2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1
Target: Fresh Water - Value: 0.4 mg/l
Target: Marine water - Value: 0.04 mg/l
Target: Freshwater sediments - Value: 1.52 mg/kg
Target: Marine water sediments - Value: 0.152 mg/kg
Target: Soil (agricultural) - Value: 0.0699 mg/kg
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Target: Fresh Water - Value: 0.635 mg/l
Target: Freshwater sediments - Value: 3.29 mg/kg
Target: Marine water sediments - Value: 0.329 mg/kg
Target: Microorganisms in sewage treatments - Value: 100 mg/l
Reaction mass of ethylbenzene and xylene
Target: Fresh Water - Value: 0.327 mg/l
Target: Marine water - Value: 0.327 mg/l
Target: Freshwater sediments - Value: 12.46 mg/kg
Target: Marine water - Value: 12.46 mg/kg
Target: Soil (agricultural) - Value: 2.31 mg/kg
(2-methoxymethylethoxy)propanol - CAS: 34590-94-8
Target: Fresh Water - Value: 19 mg/l
Target: Marine water - Value: 1.9 mg/l
Target: Freshwater sediments - Value: 7.02 mg/kg
Target: Microorganisms in sewage treatments - Value: 4168 mg/l
Target: Soil (agricultural) - Value: 2.74 mg/kg

8.2. Exposure controls

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Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection (EN 374), e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Use adequate protective respiratory equipment.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Appearance and colour:	liquid	--	--
Odour:	Characteristic	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	79-80°C	--	--
Flash point:	1 °C	EN ISO 3679	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	> 1	--	--
Relative density:	0.990 g/cm ³ - 20°C	ISO 2811	--
Solubility in water:	insoluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	> 400 °C	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	130" FC ISO 6	ISO 2431	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

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Properties	Value	Method:	Notes
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

SECTION 10: Stability and reactivity

- 10.1. Reactivity
Stable under normal conditions
- 10.2. Chemical stability
Stable under normal conditions
- 10.3. Possibility of hazardous reactions
None
- 10.4. Conditions to avoid
Stable under normal conditions.
- 10.5. Incompatible materials
Avoid contact with combustible materials. The product could catch fire.
- 10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
Toxicological information of the product:
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 - a) acute toxicity
Not classified
Based on available data, the classification criteria are not met
 - b) skin corrosion/irritation
The product is classified: Skin Irrit. 2 H315
 - c) serious eye damage/irritation
The product is classified: Eye Dam. 1 H318
 - d) respiratory or skin sensitisation
Not classified
Based on available data, the classification criteria are not met
 - e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
 - f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
 - g) reproductive toxicity
The product is classified: Repr. 2 H361
 - h) STOT-single exposure
The product is classified: STOT SE 3 H335;STOT SE 3 H336
 - i) STOT-repeated exposure
The product is classified: STOT RE 2 H373
 - j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met
- Toxicological information of the main substances found in the product:
xylene - CAS: 1330-20-7
 - a) acute toxicity:
Test: LC50 - Route: Inhalation Vapour - Species: Rat > 20 mg/l - Duration: 4h

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Test: LD50 - Route: Skin - Species: Rabbit > 4200 mg/kg
Test: LD50 - Route: Oral - Species: Rat = 3500 mg/kg
toluene - CAS: 108-88-3
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 5000 mg/kg - Duration: 24h
Test: LD50 - Route: Skin - Species: Rabbit = 12267 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 25.7 mg/l - Duration: 4h
b) skin corrosion/irritation:
Test: Skin Irritant - Species: Rabbit Positive
g) reproductive toxicity:
Test: Reproductive Toxicity - Species: Rat 1200 ppm
ethyl acetate - CAS: 141-78-6
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5620 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 20000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 22.5 mg/l - Duration: 8h
isobutyl acetate - CAS: 110-19-0
a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit > 17400 mg/kg
Test: LD50 - Route: Oral - Species: Rat = 13413 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 23.4 mg/l - Duration: 4h
n-butyl acetate - CAS: 123-86-4
a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat > 23.4 mg/l - Duration: 4h - Source:
Metodo: OECD 403
Test: LD50 - Route: Oral - Species: Rat = 10.760 mg/kg - Source: Metodo: OECD 423
Test: LD50 - Route: Skin - Species: Rabbit > 14.112 mg/kg - Source: Metodo: OECD
402
propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat > 10000 ppm - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat = 5.840 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 16.4 ml/kg
b) skin corrosion/irritation:
Test: Skin Irritant - Species: Rabbit No
g) reproductive toxicity:
Test: Reproductive Toxicity - Route: Oral - Species: Rabbit = 480 mg/kg
butan-1-ol; n-butanol - CAS: 71-36-3
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 2.292 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 3.430 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 17.76 mg/l - Duration: 4h
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 1746 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 20 mg/l - Duration: 4h
Test: LD50 - Route: Skin > 2000 mg/kg
2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 2830 mg/kg - Source: OECD 401
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Source: OECD 402
Test: LC50 - Route: Inhalation - Species: Rat > 18.18 mg/l - Source: 40 CFR 798.1150
c) serious eye damage/irritation:
Test: Eye Irritant - Species: Rabbit Positive - Source: OECD 405
2-methoxy-1-methylethyl acetate - CAS: 108-65-6

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a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 8530 mg/kg
(2-methoxymethylethoxy)propanol - CAS: 34590-94-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit = 13000 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

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Not classified for environmental hazards

Based on available data, the classification criteria are not met

xylene - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1 ml/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24

toluene - CAS: 108-88-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 5.5 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 3.78 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 134 mg/l - Duration h: 3

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 1.4 mg/l

Endpoint: NOEC - Species: Daphnia = 0.74 mg/l

Endpoint: NOEC - Species: Algae = 10 mg/l

ethyl acetate - CAS: 141-78-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Algae = 5600 mg/l - Duration h: 48

Endpoint: EC50 - Species: Daphnia = 260 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 230 mg/l - Duration h: 96

c) Bacteria toxicity:

Endpoint: EC50 = 5870 mg/l - Duration h: 0.25

isobutyl acetate - CAS: 110-19-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 17 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 25 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 370 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 23 mg/l - Notes: 21 giorni acqua dolce - Metodo

OCSE 211 - Valore sperimentale

n-butyl acetate - CAS: 123-86-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 18 mg/l - Duration h: 96 - Notes: Metodo: OECD 203

Endpoint: EC50 - Species: Algae = 674.7 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia = 44 mg/l - Duration h: 48

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Algae = 200 mg/l - Duration h: 72 - Notes: Acqua dolce
(non salina) Valore sperimentale

propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 9640 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 10000 mg/l - Duration h: 24

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- c) Bacteria toxicity:
 - Endpoint: EC50 1050 mg/l
 - e) Plant toxicity:
 - Endpoint: EC50 - Species: Algae = 1800 mg/l - Duration h: 168
- butan-1-ol; n-butanol - CAS: 71-36-3
- a) Aquatic acute toxicity:
 - Endpoint: EC50 - Species: Algae = 225 mg/l - Duration h: 72
 - Endpoint: LC50 - Species: Fish = 1.376 mg/l - Duration h: 96
 - Endpoint: EC50 - Species: Daphnia = 1.328 mg/l - Duration h: 48
 - b) Aquatic chronic toxicity:
 - Endpoint: NOEC - Species: Daphnia = 4.1 mg/l - Notes: 21 d Metodo OCSE 211 Acqua dolce - Valore sperimentale
- 2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
- a) Aquatic acute toxicity:
 - Endpoint: LC50 - Species: Fish = 1474 mg/l - Duration h: 96
 - Endpoint: EC50 - Species: Daphnia = 1550 mg/l - Duration h: 48
 - Endpoint: EC50 - Species: Algae = 1840 mg/l - Duration h: 72
 - b) Aquatic chronic toxicity:
 - Endpoint: NOEC - Species: Fish > 100 mg/l - Notes: 21 d
 - Endpoint: NOEC - Species: Daphnia = 100 mg/l - Notes: 21 d
- 2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1
- a) Aquatic acute toxicity:
 - Endpoint: LC50 - Species: Fish = 1430 mg/l - Duration h: 96
 - Endpoint: EC50 - Species: Daphnia = 1100 mg/l - Duration h: 48
 - Endpoint: EC50 - Species: Algae = 1799 mg/l - Duration h: 72 - Notes: OECD 201
 - Endpoint: EC50 - Species: Algae = 632 mg/l - Duration h: 72 - Notes: OECD 201
 - Endpoint: NOEC - Species: Algae = 53 mg/l - Duration h: 72 - Notes: OECD 201
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
- a) Aquatic acute toxicity:
 - Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96
 - Endpoint: EC50 - Species: Algae > 100 mg/l
- (2-methoxymethylethoxy)propanol - CAS: 34590-94-8
- a) Aquatic acute toxicity:
 - Endpoint: LC50 - Species: Fish > 10000 mg/l - Duration h: 96
- 12.2. Persistence and degradability
- None
- toluene - CAS: 108-88-3
- Biodegradability: Readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.
- ethyl acetate - CAS: 141-78-6
- Biodegradability: Readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.
- isobutyl acetate - CAS: 110-19-0
- Biodegradability: Readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.
- n-butyl acetate - CAS: 123-86-4
- Biodegradability: Readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.
- propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
- Biodegradability: Readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.
- 2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
- Biodegradability: Readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6

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Biodegradability: Readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. -
Notes: N.A.

(2-methoxymethylethoxy)propanol - CAS: 34590-94-8

Biodegradability: Readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. -
Notes: N.A.

12.3. Bioaccumulative potential

toluene - CAS: 108-88-3

Bioaccumulation: N.A. Test: BCF - Bioconcentration factor 90 - Duration h: N.A. -
Notes: N.A.

isobutyl acetate - CAS: 110-19-0

Bioaccumulation: N.A. Test: Kow - Partition coefficient 2.3 - Duration h: N.A. - Notes:
N.A.

Bioaccumulation: N.A. Test: BCF - Bioconcentration factor 15.3 - Duration h: N.A. -
Notes: N.A.

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2

Bioaccumulation: N.A. Test: Kow - Partition coefficient 0.81 - Duration h: N.A. - Notes:
n-ottanol/acqua

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Bioaccumulation: Not bioaccumulative - Test: N.A. N.A. - Duration h: N.A. - Notes: N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information



14.1. UN number

ADR-UN Number: 1263

IATA-UN Number: 1263

IMDG-UN Number: 1263

14.2. UN proper shipping name

ADR-Shipping Name: PAINT

IATA-Shipping Name: PAINT

IMDG-Shipping Name: PAINT

14.3. Transport hazard class(es)

ADR-Class: 3

ADR-Class: F1 Classe 3, III - 640H - KEMLER 33

ADR - Hazard identification number: -

IATA-Class: 3

IATA-Label: 3

IMDG-Class: 3

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IMDG-Class:	3.3 page 3372 - EmS 3-05 - MFAG Table 310,313
14.4. Packing group	
ADR-Packing Group:	III
IATA-Packing group:	III
IMDG-Packing group:	III
14.5. Environmental hazards	
ADR-Environmental Pollutant:	No
IMDG-Marine pollutant:	No
14.6. Special precautions for user	
ADR-Subsidiary risks:	-
ADR-S.P.:	163 367 650
ADR-Transport category (Tunnel restriction code):	3 (E)
IATA-Passenger Aircraft:	355
IATA-Subsidiary risks:	-
IATA-Cargo Aircraft:	366
IATA-S.P.:	A3 A72 A192
IATA-ERG:	3L
IMDG-EmS:	F-E , S-E
IMDG-Subsidiary risks:	-
IMDG-Stowage and handling:	Category A
IMDG-Segregation:	-
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
N.A.	

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
- Dir. 98/24/EC (Risks related to chemical agents at work)
 - Dir. 2000/39/EC (Occupational exposure limit values)
 - Regulation (EC) n. 1907/2006 (REACH)
 - Regulation (EC) n. 1272/2008 (CLP)
 - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
 - Regulation (EU) 2015/830
 - Regulation (EU) n. 286/2011 (ATP 2 CLP)
 - Regulation (EU) n. 618/2012 (ATP 3 CLP)
 - Regulation (EU) n. 487/2013 (ATP 4 CLP)
 - Regulation (EU) n. 944/2013 (ATP 5 CLP)
 - Regulation (EU) n. 605/2014 (ATP 6 CLP)
 - Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

- Restriction 3
- Restriction 40

Restrictions related to the substances contained:

- Restriction 28
- Restriction 29
- Restriction 30
- Restriction 48

Volatile Organic compounds - VOCs = 65.42 %

Volatile Organic compounds - VOCs = 647.63 g/l

Volatile CMR substances = 0.01 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.08 %

Organic Carbon - C = 0.49

Where applicable, refer to the following regulatory provisions :

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Directive 2012/18/EU (Seveso III)
 Regulation (EC) nr 648/2004 (detergents).
 Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
 Seveso III category according to Annex 1, part 1
 Product belongs to category: P5c

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.
 Substances for which a Chemical Safety Assessment has been carried out:

xylene
 toluene
 ethyl acetate
 n-butyl acetate
 propan-2-ol; isopropyl alcohol; isopropanol
 butan-1-ol; n-butanol
 2-butoxyethanol; ethylene glycol monobutyl ether
 2-methylpropan-1-ol; iso-butanol
 2-methoxy-1-methylethyl acetate

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H315 Causes skin irritation.
 H312 Harmful in contact with skin.
 H332 Harmful if inhaled.
 H225 Highly flammable liquid and vapour.
 H361d Suspected of damaging the unborn child.
 H336 May cause drowsiness or dizziness.
 EUH066 Repeated exposure may cause skin dryness or cracking.
 H318 Causes serious eye damage.
 H302 Harmful if swallowed.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated

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	exposure, Category 2
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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Repr. 2, H361	Calculation method
STOT SE 3, H335	Calculation method
STOT SE 3, H336	Calculation method
STOT RE 2, H373	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
 SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
N.A.:	Not defined/ Not available
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.

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STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWA: Time-weighted average
WGK: German Water Hazard Class.