

Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH)) Tavec 201 - P50400I

Master item code: 102302B

Safety Data Sheet dated 14/1/2021, version 8

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

1.1. Product identifier

Trade name: Tavec 201
SDS code: 3445
UFI: KSQN-17RY-0P41-V3GD

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

Recommended use:

Solvent
Industrial uses

Uses advised against:

No uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Company:

Tensid uk Ltd.
Unit 1, Craven Court,
Canada Road,
Byfleet,
KT14 7JL

Telephone: +44(0)1932 564133

Email: info@tensid.com

www.tensid.com

1.4. Emergency telephone number

+44(0)1932 564133 (office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

- ⚠ Warning, Acute Tox. 4, Harmful if swallowed.
- ⚠ Warning, Acute Tox. 4, Harmful if inhaled.
- ⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.
- Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

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Warning

Hazard statements:

- H302+H332 Harmful if swallowed or if inhaled.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

- P261 Avoid breathing vapours.
- P264 Wash hands thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves and eye/face protection.
- P312 Call a POISON CENTER if you feel unwell.
- P337+P313 If eye irritation persists: Get medical advice/attention.

Special Provisions:

None

Contains

benzyl alcohol

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:

Qty	Name	Ident. Number	Classification
>= 30% - < 40%	benzyl alcohol	Index number: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9 REACH No.: 01-2119492630-38	⚠ 3.1/4/Inhal Acute Tox. 4 H332 ⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.3/2 Eye Irrit. 2 H319
>= 3% - < 5%	HYDROCARBONS, C9, AROMATICS	EC: 918-668-5 REACH No.: 01-2119455851	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.8/3 STOT SE 3 H335

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		-35	⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 3.8/3 STOT SE 3 H336 ⚠ 4.1/C2 Aquatic Chronic 2 H411 EUH066
>= 0,5% - < 1%	mesitylene; 1,3,5-trimethylbenzene	Index number: 601-025-00-5 CAS: 108-67-8 EC: 203-604-4 REACH No.: 01-2119463878-19	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.8/3 STOT SE 3 H335 ⚠ 4.1/C2 Aquatic Chronic 2 H411
>= 0,3% - < 0,5%	2,2'-iminodiethanol; diethanolamine	Index number: 603-071-00-1 CAS: 111-42-2 EC: 203-868-0 REACH No.: 01-2119488930-28	⚠ 3.7/2 Repr. 2 H361fd ⚠ 3.9/2 STOT RE 2 H373 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.3/1 Eye Dam. 1 H318 ⚠ 3.1/4/Oral Acute Tox. 4 H302
< 0,1%	ethylbenzene	Index number: 601-023-00-4 CAS: 100-41-4 EC: 202-849-4 REACH No.: 01-2119489370-35	⚠ 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
< 0,1%	xylene	Index number: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7 REACH No.: 01-2119488216-32	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.1/4/Dermal Acute Tox. 4 H312 ⚠ 3.1/4/Inhal Acute Tox. 4 H332
< 0,1%	toluene	Index number: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 REACH No.: 01-2119471310-51	⚠ 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

SECTION 4: First aid measures

4.1. Description of first aid measures

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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.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of 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 induce vomiting.

Give nothing to eat or drink.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

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).

Treatment:

No particular treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

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.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

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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.

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.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

benzyl alcohol - CAS: 100-51-6

- OEL Type: National - TWA(8h): 22 mg/m³, 5 ppm - Notes: Germany - DFG, H, Y, 11

HYDROCARBONS, C9, AROMATICS

- OEL Type: National - TWA: 150 mg/m³ - Notes: aromatic vapor, FRANCE

mesitylene; 1,3,5-trimethylbenzene - CAS: 108-67-8

- OEL Type: National - TWA(8h): 100 mg/m³ - Notes: Germany - DFG, EU, Y

- OEL Type: National - TWA(8h): 100 mg/m³, 20 ppm - STEL: 250 mg/m³, 50 ppm -

Notes: France VLEC (INRS -TMP N° 84)

- OEL Type: National - TWA(4h): 100 mg/m³, 20 ppm - Notes: France VLEI

- OEL Type: EU - TWA(8h): 100 mg/m³, 20 ppm

- OEL Type: ACGIH - TWA(8h): 25 ppm

- OEL Type: National - TWA: 100 mg/m³, 20 ppm - STEL(): 150 mg/m³, 30 ppm - Notes:

Osterreich

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2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

- OEL Type: ACGIH - TWA(8h): 1 mg/m³ - Notes: (IFV), Skin, A3 - Liver and kidney dam
- OEL Type: National - TWA: 15 mg/m³, 3 ppm - Notes: France
- OEL Type: National - TWA(8h): 2 mg/m³, 0.46 ppm - Notes: Netherlands
- OEL Type: National - TWA(8h): 2 mg/m³, 0.46 ppm - Notes: Belgium
- OEL Type: National - TWA: 0.2 ppm - Notes: DOW IHG, skin

ethylbenzene - CAS: 100-41-4

- OEL Type: National - TWA(8h): 88.4 mg/m³, 20 ppm - Notes: Germany - EU, H
- OEL Type: National - TWA(8h): 88.4 mg/m³, 20 ppm - STEL: 442 mg/m³, 100 ppm - Notes: France VLEC - TMP N° 84
- OEL Type: National - TWA(8h): 441 mg/m³, 100 ppm - STEL: 552 mg/m³, 125 ppm - Notes: UK (WELs)
- OEL Type: EU - TWA(8h): 442 mg/m³, 100 ppm - STEL: 884 mg/m³, 200 ppm - Notes: Skin
- OEL Type: ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair
- OEL Type: National - STEL: 220 mg/m³ - Notes: Swiss
- OEL Type: MAK - TWA: 440 mg/m³, 100 ppm - STEL(5 min (Mow)): 880 mg/m³, 200 ppm - Notes: Österreich

xylene - CAS: 1330-20-7

- OEL Type: National - TWA(8h): 440 mg/m³ - Notes: Germany - DFG, H
- OEL Type: National - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: France VLEC - TMP N° 4Bis, 84
- OEL Type: EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Skin
- OEL Type: National - TWA(8h): 220 mg/m³, 50 ppm - STEL: 441 mg/m³, 100 ppm - Notes: UK (WELs)
- OEL Type: ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair
- OEL Type: National - TWA: 307 mg/m³, 50 ppm - STEL(5 min (Mow)): 614 mg/m³, 100 ppm - Notes: Österreich

toluene - CAS: 108-88-3

- OEL Type: National - TWA(8h): 190 mg/m³ - Notes: Germany - DFG, H, Y
- OEL Type: National - TWA(8h): 76.8 mg/m³, 20 ppm - STEL: 384 mg/m³, 100 ppm - Notes: France VLEC - TMP N° 4bis, 84
- OEL Type: EU - TWA(8h): 192 mg/m³, 50 ppm - STEL: 384 mg/m³, 100 ppm - Notes: Skin
- OEL Type: National - TWA: 191 mg/m³, 50 ppm - STEL: 384 mg/m³, 100 ppm - Notes: UK (WELs)
- OEL Type: ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - Visual impair, female repro, pregnancy loss
- OEL Type: National - TWA: 190 mg/m³, 50 ppm - STEL(15min (Miw)): 380 mg/m³, 100 ppm - Notes: Österreich

DNEL Exposure Limit Values

benzyl alcohol - CAS: 100-51-6

Worker Industry: 40 mg/kg b.w./day - Consumer: 28.5 - Exposure: Human Dermal -

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Frequency: Short Term, systemic effects

Worker Industry: 110 mg/m³ - Consumer: 27 mg/kg b.w./day - Exposure: Human

Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 8 mg/kg b.w./day - Consumer: 5.7 - Exposure: Human Dermal -

Frequency: Long Term, systemic effects

Worker Industry: 22 mg/m³ - Consumer: 5.4 mg/m³ - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 20 mg/kg b.w./day - Exposure: Human Oral - Frequency: Short Term, systemic effects

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Worker Industry: 25 mg/kg b.w./day - Consumer: 11 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 150 mg/m³ - Consumer: 32 mg/m³ - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 11 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Worker Industry: 1 mg/m³ - Consumer: 0.25 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 0.13 mg/kg - Consumer: 0.07 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 0.06 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 33 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

ethylbenzene - CAS: 100-41-4

Worker Industry: 77 mg/m³ - Consumer: 15 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 180 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 293 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

toluene - CAS: 108-88-3

Worker Professional: 384 mg/m³

Worker Professional: 192 mg/m³

Worker Professional: 180 mg/m³

PNEC Exposure Limit Values

benzyl alcohol - CAS: 100-51-6

Target: Fresh Water - Value: 1 mg/l

Target: Marine water - Value: 0.1 mg/l

Target: PNEC01 - Value: 2.3 mg/l

Target: Soil - Value: 0.456 mg/kg

Target: Freshwater sediments - Value: 5.27 mg/kg

Target: Marine water sediments - Value: 0.527 mg/kg

Target: Microorganisms in sewage treatments - Value: 39 mg/l

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Appearance and colour:	Emulsion and green	--	--
Odour:	N.A.	--	--
Odour threshold:	N.A.	--	--
pH:	10	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	100°C	--	water base
Flash point (°C):	>100°C	ISO 2592	--
Flash Point (°F):	>212°F	1	--
Evaporation rate:	<1	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	<1	--	--
Relative density:	1.03	ISO 649, ASTM D1298	--
Solubility in water:	partially/ partiellement	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--

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Decomposition temperature:	N.A.	--	--
Viscosity:	5000-20000 CPS	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

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

Volatile Organic compounds - VOCs = 376 g/l

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

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

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benzyl alcohol - CAS: 100-51-6

Acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 4178 mg/m3 - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 1620 MGKGBWDAY

Test: LOAEL

- Route: Oral - Species: Mouse = 750 mg/kg - Duration: 8 days

Reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Mouse = 550 MGKGBWDAY - Source: 6-15 days

STOT-repeated exposure:

Test: NOAEL - Route: Oral - Species: Rat = 400 MGKGBWDAY

Test: NOAEL - Route: Oral - Species: Mouse = 200 MGKGBWDAY

Test: NOAEL - Route: Inhalation - Species: Rat = 1072 mg/m3

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Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3492 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 6193 mg/l

mesitylene; 1,3,5-trimethylbenzene - CAS: 108-67-8

Acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Oral - Species: Rat < 5000 mg/kg

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 1600 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 12.970 mg/kg

Test: LC0 - Route: Inhalation - Species: Rat = 0.2 mg/l - Duration: 8h

Carcinogenicity:

Test: NOAEL - Route: Skin - Species: Rat = 32 MGKGBWDAY - Notes: 103 weeks,

LOAEL = 40 mg/kg bw/day

Reproductive toxicity:

Test: NOAEC - Species: Rat = 300 MGKGBWDAY - Notes: daily weeks, fertility

Test: NOAEC - Species: Rat = 150 MGKGBWDAY - Notes: 6-15 days, development

Test: NOAEL - Species: Rat = 50 mg/l - Notes: 6-15 days, development

ethylbenzene - CAS: 100-41-4

Acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit = 4100 mg/kg

Test: LD50 - Route: Oral - Species: Rat = 3500 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 20 mg/l - Duration: 4h

Test: LCL0 - Route: Inhalation - Species: Rat = 4000 ppm - Duration: 4h

xylene - CAS: 1330-20-7

Acute toxicity:

Test: LC50 - Route: Inhalation Vapour - Species: Rat = 6700 ppm - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit > 4200 mg/kg

Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg

toluene - CAS: 108-88-3

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Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

benzyl alcohol - CAS: 100-51-6

LD50 (RABBIT) SKIN SINGLE DOSE: 2000 MG/KG

If not specified in other sections, the information required in Regulation (EU)2015/830 listed below must be considered as not relevant:

Acute toxicity;

Skin corrosion/irritation;

Serious eye damage/irritation;

Respiratory or skin sensitisation;

Germ cell mutagenicity;

Carcinogenicity;

Reproductive toxicity;

STOT-single exposure;

STOT-repeated exposure;

Aspiration hazard.

Other toxicological information:

benzyl alcohol

Skin corrosion / irritation:

Severe eye irritation.

Skin irritation:

Slight irritating effect

Mutagenicity on germ cells (in vitro):

Positive without metabolic activation, OECD 476, Mouse (L5178Y lymphoma cell)

Positive with metabolic activation, Chinese Hamster Ovary (CHO)

-

2,2'-iminodiethanol; diethanolamine

Skin corrosion / irritation (rabbit):

Irritating effect

Severe eye injury/irritation (rabbit):

Irreversible damage

May cause liver damage in case of prolonged or repeated exposures.

-

xylene

Irritation and corrosion:

mild irritant, rabbit, 24 hours (exposure), 72 hours (observation)

Ingestion:

Ingestion may cause irritation of the digestive tract, nausea, vomiting and diarrhea, abdominal pain.

Harmful by inhalation.

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Aspiration hazard: category 1

SECTION 12: Ecological information

12.1. Toxicity

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

benzyl alcohol - CAS: 100-51-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 460 mg/l - Duration h: 96 - Notes: Pimephales promelas, fresh water, static system

Endpoint: EC50 - Species: Daphnia = 230 mg/l - Duration h: 48

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 51 mg/l - Duration h: 504

d) Terrestrial toxicity:

Endpoint: IC50 - Species: Microorganisms = 390 mg/kg - Duration h: 24 - Notes: ISO 8192; Nitrosomas

e) Plant toxicity:

Endpoint: NOEC - Species: Algae = 310 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

Endpoint: EC50 - Species: Algae = 770 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

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a) Aquatic acute toxicity:

Endpoint: EL50

- Species: Algae = 2.6 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata

Endpoint: EL50

- Species: Daphnia = 3.2 mg/l - Duration h: 48

Endpoint: LL50

- Species: Fish = 9.2 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

b) Aquatic chronic toxicity:

Endpoint: NOAEL - Species: Daphnia = 2.14 mg/l - Duration h: 504

Endpoint: NOAEL - Species: Fish = 1.23 mg/l - Duration h: 672 - Notes: Oncorhynchus mykiss

Endpoint: NOEC - Species: Fish > 1 mg/l

mesitylene; 1,3,5-trimethylbenzene - CAS: 108-67-8

a) Aquatic acute toxicity:

Endpoint: LL50

- Species: Fish > 1 mg/l - Notes: LL/EL/IL50

Endpoint: LL50

- Species: Daphnia > 1 mg/l - Notes: LL/EL/IL50

Endpoint: LL50

- Species: Algae > 1 mg/l - Notes: LL/EL/IL50

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 1 mg/l

c) Bacteria toxicity:

Endpoint: LL50

- Species: bacteria > 100 mg/l - Notes: LL/EL/IL50

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

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a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1460 mg/l - Duration h: 96 - Notes: Pimephales promelas

Endpoint: EC50 - Species: Daphnia = 55 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 2.2 mg/l - Duration h: 96 - Notes: Pseudokirchneriella subcapitata

Endpoint: NOEC - Species: Daphnia = 0.78 mg/l - Duration h: 504 - Notes: LOEC : 1,56 mg/l

Endpoint: EC10 - Species: Microorganisms > 1000 mg/l - Duration h: 0.5

ethylbenzene - CAS: 100-41-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia > 1.37 mg/l - Duration h: 48

Endpoint: EC50 - Species: Daphnia < 4.4 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 4.2 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 1 mg/l

xylene - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: NOEC - Species: Daphnia = 1.17 mg/l - Duration h: 168 - Notes: Daphnia - Ceriodaphnia dubia

Endpoint: EC50 - Species: Algae = 4.36 mg/l - Duration h: 73

Endpoint: EC50 - Species: Daphnia = 90 mg/l - Duration h: 48 - Notes: Cypris subglobosa, intoxication

Species: Daphnia = 1 mg/l - Duration h: 24 - Notes: IC50

Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 1.3 mg/l - Duration h: 1344

toluene - CAS: 108-88-3

a) Aquatic acute toxicity:

Endpoint: LL50

- Species: Fish > 1 mg/l - Notes: LL/EL/IL50

Endpoint: LL50

- Species: Daphnia > 1 mg/l - Notes: LL/EL/IL50

Endpoint: LL50

- Species: Algae > 1 mg/l - Notes: LL/EL/IL50

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 1 mg/l

c) Bacteria toxicity:

Endpoint: LL50

- Species: bacteria > 100 mg/l - Notes: LL/EL/IL50

12.2. Persistence and degradability

benzyl alcohol - CAS: 100-51-6

Biodegradability: Biodegradation in water - Test: MITI modif(I) - Duration: 14 days - %: 92-96 - Notes: OECD 301C

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Biodegradability: Biodegradability rate - Test: OECD 301F - Duration: 28 days - %: 93

12.3. Bioaccumulative potential

benzyl alcohol - CAS: 100-51-6

BCF 1.37 l/kg

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Log Kow 1.05 - Notes: 20°C

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Log Pow -2.18

ethylbenzene - CAS: 100-41-4

Log Kow 3.15

xylene - CAS: 1330-20-7

Low bioconcentration potential

Log Pow 3.12

BCF 8.1 - 25.9

12.4. Mobility in soil

benzyl alcohol - CAS: 100-51-6

Log Koc 15.7

Volatility (H: Henry's Law Constant) 0.0879 Pa.m³/mol

2,2'-iminodiethanol; diethanolamine - CAS: 111-42-2

Log Koc 0 or -1.1472

Volatility (H: Henry's Law Constant) 0.000004 Pa.m³/mol - Notes: 25°C

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

No harmful effects expected.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Codes of wastes (Décision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):

14 06 03* Other solvents and solvent mixtures

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

N.A.

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

14.6. Special precautions for user

N.A.

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

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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)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 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 48

Listed or in compliance with the following international inventories:

N.A.

The following substance(s) in this product has/have an identification by CAS number either in countries not affected by the REACH regulation or in regulations not yet updated to reflect the new naming convention for hydrocarbon solvents:

HYDROCARBONS, C10-C13, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS (CAS: 64742-48-9)

Labelling of detergents (EC Regulations 648/2004 and 907/2006):

N.A.

Labelling of biocides (Regulations 1896/2000, 1687/2002, 2032/2003, 1048/2005, 1849/2006, 1451/2007 and Directive 98/8/EC):

N.A.

Where applicable, refer to the following regulatory provisions :

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Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

1999/13/EC (VOC directive)

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No

SECTION 16: Other information

N.A.: Not Applicable or Not Available

Full text of phrases referred to in Section 3:

H332 Harmful if inhaled.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H226 Flammable liquid and vapour.

H335 May cause respiratory irritation.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H225 Highly flammable liquid and vapour.

H373 May cause damage to organs (hearing organs) through prolonged or repeated exposure.

H312 Harmful in contact with skin.

H361d Suspected of damaging the unborn child.

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

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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 exposure, Category 2
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

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
Acute Tox. 4, H302	Calculation method
Acute Tox. 4, H332	Calculation method
Eye Irrit. 2, H319	Calculation method
Aquatic Chronic 3, H412	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
CCNL - Appendix 1
Insert further consulted bibliography

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Tensid uk ltd strongly advises every recipient of this safety data sheet to read it carefully and to

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consult experts in the field if necessary or appropriate, in order to understand the information it contains, notably the possible dangers associated with this product. The users must ensure the conformity and completeness of this information with regards to their specific use of the product. 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 responsibility of the purchaser/user to ensure that their activities conform with current legislation in force.

The information is considered correct, but it is not exhaustive and it shall be used only as a guide which is based on the current knowledge of the substance or mixture and it is applicable to the safety precautions appropriate for the product.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
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.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
STOT SE:	May cause drowsiness or dizziness
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day.

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WGK: (ACGIH Standard).
German Water Hazard Class.