



Safety Data Sheet

ALTURA TC

Safety Data Sheet dated 26/1/2023, Edition 2 - version 3
Regulation (EU) n. 2020/878

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

1.1. Product identifier

Identification of the mixture:

Trade name: ALTURA TC
Trade code: 640.027

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

1.3. Details of the supplier of the safety data sheet

Company:

BOERO BARTOLOMEO S.p.A. - Via Macaggi 19 - 16121 Genova - Tel. +39 010 55001 - Fax +39 010 5500305 - CF/P. IVA/REG. IMPRESE DI GENOVA 00267120103

Competent person responsible for the safety data sheet:

sicurezzaprodotti@boero.it

1.4. Emergency telephone number

BOERO BARTOLOMEO S.p.A. - Tel.+39 010 55001
opening hours: Monday - Tuesday 9.00 am - 5.00 pm

UK: in an emergency the enquirer should call NHS 111/24/Direct (free-to-call medical helplines) or a doctor.

MALTA: tel. 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Flam. Liq. 3, H226 Flammable liquid and vapour.

EUH066 Repeated exposure may cause skin dryness or cracking.

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P370+P378 In case of fire use CO2 or chemical powder. Never use water.

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P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container according to local regulations.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

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

None

Dir. 2004/42/EC (VOC directive)

Interior/exterior trim and cladding paints for wood and metal

This product contains max 300 g/l VOC

EU limit value (Dir. 2004/42/CE) for this product (cat. A/d): 300 g/l (2010).

2.3. Other hazards

Adverse physicochemical, human health and environmental effects:

The main adverse physical-chemical effects for human health and the environment are listed in accordance with Sections 9 to 12 of the safety data sheet

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

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:

$\geq 20\%$ - $< 25\%$ titanium dioxide; [in powder form containing less than 1 % of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]

REACH No.: 01-2119489379-17-XXXX, CAS: 13463-67-7, EC: 236-675-5

Substance with a Union workplace exposure limit.

$\geq 15\%$ - $< 20\%$ hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, $< 2\%$ aromatics

REACH No.: 01-2119463258-33-XXXX, EC: 919-857-5

Flam. Liq. 3 H226 Flammable liquid and vapour.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

STOT SE 3 H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

DECLP (CLP)*

$\geq 7\%$ - $< 10\%$ hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, $< 2\%$ aromatics

REACH No.: 01-2119457736-27-XXXX, EC: 927-632-8

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

EUH066 Repeated exposure may cause skin dryness or cracking.

$\geq 1\%$ - $< 2.5\%$ hydrocarbons, C9, aromatics

REACH No.: 01-2119455851-35-XXXX, EC: 918-668-5

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Flam. Liq. 3 H226 Flammable liquid and vapour.
STOT SE 3 H335 May cause respiratory irritation.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
STOT SE 3 H336 May cause drowsiness or dizziness.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
DECLP (CLP)*

>= 1% - < 2.5% xylene [4]

REACH No.: 01-2119488216-32-XXXX, CAS: 1330-20-7, EC: 215-535-7
Flam. Liq. 3 H226 Flammable liquid and vapour.
Acute Tox. 4 H312 Harmful in contact with skin.
Acute Tox. 4 H332 Harmful if inhaled.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H335 May cause respiratory irritation.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

>= 1% - < 2.5% neodecanoic acid, zirconium salt

CAS: 39049-04-2, EC: 254-259-1
Skin Irrit. 2 H315 Causes skin irritation.

>= 0.1% - < 0.25% dipropylenglycol methylether

CAS: 34590-94-8, EC: 252-104-2
Substance with a Union workplace exposure limit.

>= 0.01% - < 0.05% ethylbenzene

REACH No.: 01-2119489370-35-XXXX, CAS: 100-41-4, EC: 202-849-4
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Acute Tox. 4 H332 Harmful if inhaled.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

>= 0.0015% - < 0.01% free crystalline silica - respirable fraction

CAS: 14808-60-7, EC: 238-878-4
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

< 0.0015% Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

REACH No.: 01-2119458049-33-XXXX, EC: 919-446-0
STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.
STOT SE 3 H336 May cause drowsiness or dizziness.
Flam. Liq. 3 H226 Flammable liquid and vapour.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

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DECLP (CLP)*

< 0.0015% ethylbenzene

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

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

STOT RE 2 H373 May cause damage to organs (auditive organs) through prolonged or repeated exposure.

Acute Tox. 4 H332 Harmful if inhaled.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

< 0.0015% propan-2-ol; isopropyl alcohol; isopropanol

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

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

< 0.0015% butanone; ethyl methyl ketone

REACH No.: 01-2119457290-43-XXXX, Index number: 606-002-00-3, CAS: 78-93-3, EC: 201-159-0

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

*DECLP (CLP): Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008. The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do NOT induce vomiting.

Give nothing to eat or drink.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

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

None

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- 4.3. Indication of any immediate medical attention and special treatment needed
Treatment:
None

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
Suitable extinguishing media:
In case of fire use CO₂ or chemical powder. Never use water.
Extinguishing media which must not be used for safety reasons:
Do not use water jets
None in particular.
- 5.2. Special hazards arising from the substance or mixture
Avoid inhaling the fumes.
- 5.3. Advice for firefighters
Use suitable breathing apparatus .
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.
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
For non emergency personnel:
Wear personal protection equipment.
Remove all sources of ignition.
Remove persons to safety.
See protective measures under point 7 and 8.
For emergency responders:
Wear personal protection equipment.
- 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.
Adequately ventilated premises.
Advice on general occupational hygiene:
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
Always keep the containers tightly closed.

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Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Adequately ventilated premises.

7.3. Specific end use(s)

See section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

titanium dioxide; [in powder form containing less than 1 % of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] - CAS: 13463-67-7

EU - TWA(8h): 10 mg/m³

AGS - TWA(8h): 5 mg/m³

ACGIH - TWA(8h): 0.2 mg/m³ - Notes: Nanoscale particles; (R); A3 - LRT irr, pneumoconiosis

MAK - STEL: 3 mg/m³

ACGIH - TWA(8h): 2.5 mg/m³ - Notes: Finescale particles; (R); A3 - LRT irr, pneumoconiosis

HRKGV I - Notes: 4 mg/m³ (R respirabilna prašina)

VLE1 - Notes: 10 mg/m³ (U ukupna prašina)

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

ACGIH - TWA: 1200 mg/m³, 197 ppm

hydrocarbons, C9, aromatics

EU - STEL: 100 mg/m³, 20 ppm

AGS - TWA(8h): 250-350 mg/m³

xylene [4] - CAS: 1330-20-7

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

AGS - TWA(8h): 221 mg/m³ - STEL((15 min)): 442 mg/m³ - Notes: (Anm. H: Ämnet kan lätt upptas genom huden)

ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - URT and eye irr; hematologic eff; CNS impair

AGS - TWA(8h): 221 mg/m³ - STEL((15 min)): 442 mg/m³ - Notes: (Anm. H: Ämnet kan lätt upptas genom huden)

VLE1 - TWA(8h): 211 mg/m³, 50 ppm

VLE - STEL: 442 mg/m³, 100 ppm - Notes: Skin

dipropyleneglycol methylether - CAS: 34590-94-8

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

ACGIH - TWA(8h): 50 ppm - Notes: Liver & CNS eff

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: OTO; A3, BEI - URT & eye irr; ototoxicity; kidney eff; CNS impair

free crystalline silica - respirable fraction - CAS: 14808-60-7

EU - TWA(8h): 0.1 mg/m³

ACGIH - TWA(8h): 0.025 mg/m³ - Notes: (R), A2 - Pulm fibrosis, lung cancer

AGS - TWA(8h): 0.2 mg/m³ - Notes: mg fiber/cm³ (Anm. C: Ämnet är

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cancerframkallande, M: Medicinsk kontroll kan krävas för hantering av ämnet.)

MAK - STEL: 0.15 mg/m³

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

EU - TWA(8h): 290 mg/m³, 50 ppm - STEL: 580 mg/m³, 100 ppm

ethylbenzene - CAS: 100-41-4

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

AGS - TWA(8h): 200 mg/m³ - STEL((15 min)): 450 mg/m³

ACGIH - TWA(8h): 20 ppm - Notes: OTO; A3, BEI - URT & eye irr; ototoxicity; kidney eff; CNS impair

VLE1 - TWA(8h): 442 mg/m³, 100 ppm

VLE - STEL: 884 mg/m³, 200 ppm

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

VLE1 - TWA: 999 mg/m³, 400 ppm

VLE - STEL: 1250 mg/m³, 500 ppm

butanone; ethyl methyl ketone - CAS: 78-93-3

EU - TWA(8h): 600 mg/m³, 200 ppm - STEL: 900 mg/m³, 300 ppm

ACGIH - TWA(8h): 200 ppm - STEL: 300 ppm - Notes: BEI - URT irr, CNS and PNS impair

VLE1 - TWA(8h): 600 mg/m³, 200 ppm

VLE - STEL: 900 mg/m³, 300 ppm

DNEL Exposure Limit Values

titanium dioxide; [in powder form containing less than 1 % of particles with aerodynamic diameter <= 10 µm] - CAS: 13463-67-7

Worker Industry: 10 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 700 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

hydrocarbons, C9, aromatics

Worker Industry: 25 mg/kg - Consumer: 11 mg/kg - 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 - Exposure: Human Oral - Frequency: Long Term, systemic effects

xylene [4] - CAS: 1330-20-7

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

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

Worker Industry: 180 mg/kg - Consumer: 108 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 77 mg/m³ - Consumer: 14.8 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

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

PNEC Exposure Limit Values

titanium dioxide; [in powder form containing less than 1 % of particles with aerodynamic diameter <= 10 µm] - CAS: 13463-67-7

Target: Marine water - Value: 1 mg/L

Target: Fresh Water - Value: 0.127 mg/L

Target: Microorganisms in sewage treatments - Value: 100 mg/L

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Target: Marine water sediments - Value: 100 mg/kg
Target: Freshwater sediments - Value: 1000 mg/kg
xylene [4] - 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: Microorganisms in sewage treatments - Value: 6.58 mg/L

Biological Exposure Index

xylene [4] - CAS: 1330-20-7
Value: 1.50 mg/L - medium: Blood - Sampling Period: End of turn
Value: 1.50 gg creatinina - medium: Blood - Sampling Period: End of turn
ethylbenzene - CAS: 100-41-4
Value: 1.50 mg/L - medium: Blood - Sampling Period: DU
Value: 2 ppm - medium: Air at the end of exhalation - Sampling Period: A
Value: 1.50 gg creatinina - medium: Urine - Biological Indicator: 78 - Sampling Period: End of turn; End of working week
propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0
Value: 50 mg/L - medium: Blood - Biological Indicator: Acetone in urine - Sampling Period: End of turn
Value: 50 mg/L - medium: Urine - Biological Indicator: Acetone in urine - Sampling Period: End of turn
butanone; ethyl methyl ketone - CAS: 78-93-3
Value: 2.6 mgg creatinina - medium: Urine - Biological Indicator: MEK in urine - Sampling Period: End of turn

8.2. Exposure controls

Eye protection:

Use goggles/face mask certified UNI EN 166.

Protection for skin:

Suitable protective clothing is required for complete skin protection: for example coveralls with long sleeves and trousers, rubber boots and apron, etc., according to UNI EN 14325.

Protection for hands:

Use protective gloves: waterproof rubber gloves certified UNI EN 374. Nitrile gloves provide good protection. Use care in selecting a penetration time of the gloves longer than the foreseen usage time.

Respiratory protection:

Use adequate protective respiratory equipment: a carbon filter mask with filters certified UNI EN 149 or dust masks certified UNI EN 140. Filters of types A and P types may be considered.

Thermal Hazards:

None

Environmental exposure controls:

See sections 6 and 13

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Properties	Value	Method:	Notes
Physical state:	liquid	--	--
Colour:	ivory PORCELLANA	--	--
Odour:	N.A.	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	bp>35 °C	--	--
Flammability:	Flam. Liq. 3, H226	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	40 °C	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	> 20,5 mm ² / sec (40 °C)	--	--
Viscosity (23°C+0.5°C)	min 900- max 1600	SPECIFIC WEIGHT BY MEANS OF PICNOMETER (gr / cm ³).	--
Spindle:	4	--	--
Speed (rpm):	20	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1.1414	BROOKFIELD (cP)	--

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Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

No other relevant information

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

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

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- Not classified
Based on available data, the classification criteria are not met
- h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met
- i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
- 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:

titanium dioxide; [in powder form containing less than 1 % of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] - CAS: 13463-67-7

a) acute toxicity:

Test: LD50 - Route: oral - Species: rat > 10.000 mg/kg

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

a) acute toxicity:

Test: LC50 - Route: inhalation - Species: rat > 5000 mg/m³ - Duration: 4h - Source: OCSE 403

Test: LD50 - Route: oral - Species: rat > 5000 mg/kg - Source: OCSE 401

Test: LD50 - Route: oral - Species: rat > 5000 mg/kg - Source: OCSE 402

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics

a) acute toxicity:

Test: LC50 - Route: inhalation - Species: rat > 5000 mg/m³

Test: LD50 - Route: dermal - Species: rabbit > 3160 mg/kg

Test: LD50 - Route: oral - Species: rat > 5000 mg/kg

hydrocarbons, C9, aromatics

a) acute toxicity:

Test: LD50 - Route: oral - Species: rat > 3492 mg/kg

Test: LD50 - Route: dermal - Species: rat > 3160 mg/kg

Test: LC50 - Route: inhalation - Species: rat > 6193 mg/m³ - Duration: 4h

xylene [4] - CAS: 1330-20-7

a) acute toxicity:

Test: LD50 - Route: oral - Species: rat > 3523 mg/kg

Test: LD50 - Route: dermal - Species: rabbit > 2000 mg/kg

Test: LC50 - Route: inhalation - Species: rat > 27.571 mg/l - Duration: 4h

b) skin corrosion/irritation:

Test: Skin Irritant Positive

c) serious eye damage/irritation:

Test: Eye Irritant Positive

dipropylenglycol methylether - CAS: 34590-94-8

a) acute toxicity:

Test: LD50 - Route: oral - Species: rat = 8740.0 mg/kg

Test: LD50 - Route: dermal - Species: rabbit = 9510.0 mg/kg

Test: LC50 - Route: inhalation of vapours - Species: rat = 3404.47 mg/l

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

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a) acute toxicity:

Test: LD50 - Route: oral - Species: rat > 5000 mg/kg

Test: LD50 - Route: dermal - Species: rabbit > 3160 mg/kg

Test: LC50 - Route: inhalation - Species: rat > 1.58 mg/l

ethylbenzene - CAS: 100-41-4

a) acute toxicity:

Test: LC50 - Route: inhalation - Species: rat = 17.2 mg/l - Duration: 4h

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

a) acute toxicity:

Test: LD50 - Route: oral - Species: rat = 5840 mg/kg

Test: LC50 - Route: inhalation - Species: rat > 10000 Ppm - Duration: 18207.6h

Test: LD50 - Route: dermal - Species: rabbit = 16.4 ml/kg

b) skin corrosion/irritation:

Test: Skin Corrosive - Route: dermal - Species: rabbit Negative - Notes: OECD 404

c) serious eye damage/irritation:

Test: Eye Corrosive - Species: rabbit Positive - Notes: OECD 405

butanone; ethyl methyl ketone - CAS: 78-93-3

a) acute toxicity:

Test: LD50 - Route: oral - Species: rat > 2054 mg/kg

Test: LD50 - Route: dermal - Species: rabbit > 10 ml/kg

c) serious eye damage/irritation:

Test: Eye Irritant - Species: rabbit

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

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

titanium dioxide; [in powder form containing less than 1 % of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] - CAS: 13463-67-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 - Notes: OECD 203

Endpoint: LC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: OECD 202

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

a) Aquatic acute toxicity:

Endpoint: NOEC - Species: Fish = 100 mg/l - Duration h: 72 - Notes: OECD TG 201

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia = 1000 mg/l - Duration h: 48

hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1028 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 3193 mg/l - Duration h: 48

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- Endpoint: EC50 - Species: Algae > 3198 mg/l - Duration h: 72
Endpoint: NOEC - Species: Algae > 3198 mg/l - Duration h: 72
- hydrocarbons, C9, aromatics
- a) Aquatic acute toxicity:
- Endpoint: LC50 - Species: Fish = 9.2 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 3.2 mg/l - Duration h: 48
Endpoint: NOEC - Species: Algae = 1 mg/l - Duration h: 72
Endpoint: EC50 - Species: Algae = 2.9 mg/l - Duration h: 72
- xylene [4] - CAS: 1330-20-7
- a) Aquatic acute toxicity:
- Endpoint: LC50 - Species: Fish = 2.6 ml/l - Duration h: 96
Endpoint: EC50 - Species: Algae = 2.2 mg/l - Duration h: 72
- b) Aquatic chronic toxicity:
- Endpoint: NOEC - Species: Fish > 1.3 mg/l - Notes: 56 d
Endpoint: NOEC - Species: Daphnia = 0.74 mg/l - Notes: 7 d
- dipropyleneglycol methylether - CAS: 34590-94-8
- a) Aquatic acute toxicity:
- Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96
Endpoint: LC50 - Species: Daphnia = 1919 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae > 969 mg/l - Duration h: 72
- b) Aquatic chronic toxicity:
- Endpoint: NOEC - Species: Daphnia = 0.5 mg/l - Duration h: 504
- Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
- a) Aquatic acute toxicity:
- Endpoint: LC50 - Species: Daphnia = 2.6 mg/l - Duration h: 96
Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96
- 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
Endpoint: EC50 - Species: Algae = 1800 mg/l - Duration h: 168
- butanone; ethyl methyl ketone - CAS: 78-93-3
- a) Aquatic acute toxicity:
- Endpoint: LC50 - Species: Fish = 2993 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 308 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 2029 mg/l - Duration h: 96
- 12.2. Persistence and degradability
- There is no data available on the preparation itself.
- hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
Biodegradability: Readily biodegradable - %: 80 - Notes: 28 d
- hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics
Biodegradability: Readily biodegradable - %: 74 - Notes: 28 d
- hydrocarbons, C9, aromatics
Biodegradability: Readily biodegradable - %: 78 - Notes: 28 d
- xylene [4] - CAS: 1330-20-7
Biodegradability: Readily biodegradable - Notes: solubilità in acqua=146 mg/l
- dipropyleneglycol methylether - CAS: 34590-94-8
Biodegradability: Readily biodegradable - Test: Oxygen consumption - %: 96 - Notes: 28 d
- propan-2-ol; isopropyl alcohol; isopropanol - CAS: 67-63-0

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Biodegradability: Readily biodegradable - %: 70 - Notes: 10 d
butanone; ethyl methyl ketone - CAS: 78-93-3

Biodegradability: Readily biodegradable - Test: CO₂ production - %: 98 - Notes: 28 d

12.3. Bioaccumulative potential

There is no data available on the preparation itself.

hydrocarbons, C9, aromatics

Test: Kow - Partition coefficient 1.2

xylene [4] - CAS: 1330-20-7

Test: Kow - Partition coefficient 3.2 - Notes: mg/l

Test: BCF - Bioconcentration factor 25.9 - Notes: mg/l

dipropylenglycol methylether - CAS: 34590-94-8

Bioaccumulation: Not bioaccumulative

ethylbenzene - CAS: 100-41-4

Test: Kow - Partition coefficient 3.6

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

Test: Kow - Partition coefficient 0.05 - Notes: mg/l

12.4. Mobility in soil

There is no data available on the preparation itself.

xylene [4] - CAS: 1330-20-7

Test: Koc 2.73 - Notes: mg/l

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7. Other adverse effects

None

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.
Directives 91/156/CEE, 91/689/CEE, 94/62/CE.

EWC CODE 080111

Do not empty into drains, ground or waterways. Dispose of product residues and related containers at a collection point for hazardous or special waste or, where appropriate, through an authorized waste disposal company.

SECTION 14: Transport information



14.1. UN number or ID number

ADR-UN Number: 1263

IATA-UN Number: 1263

IMDG-UN Number: 1263

14.2. UN proper shipping name

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ADR-Shipping Name: PAINT
IATA-Shipping Name: PAINT
IMDG-Shipping Name: PAINT

14.3. Transport hazard class(es)

ADR-Class: 3
UN no.: UN 1263
ADR - Hazard identification number: 30
IATA-Class: 3
IATA-Label: 3
IMDG-Class: 3
Erg-code: 3L

Packagings < 450 L not regulated according to 2.2.3.1.5 ADR.

Packagings < 30 L not regulated according to 2.3.2.5 IMDG.

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
IMDG-EmS: F-E,
S-E

14.6. Special precautions for user

ADR-Subsidiary hazards: -
ADR-S.P.: 163 367 650
ADR-Transport category (Tunnel restriction code): 3 (D/E)
ADR-Limited Quantities: 5 L
ADR-Excepted Quantities: E1
IATA-Passenger Aircraft: 355
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 366
IATA-S.P.: A3 A72 A192
IATA-ERG: 3L
IMDG-Subsidiary hazards: -
IMDG-Stowage and handling: Category A
IMDG-Segregation: -

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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Regulation (EU) n. 2020/878

Dir. 89/391/CEE and subsequent amendments (Risks related to chemical agents at work and Occupational exposure limit values). Directive 1999/13/EC and subsequent amendments (limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations). Regulation (CE) n. 1907/2006 , Regulation (CE) 830/2015 and subsequent amendments (concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals - REACH). Regulation (CE) n.1272/2008 and subsequent amendments (on classification, labeling and packaging of substances and mixtures - CLP).

International Maritime Dangerous Goods Code, IATA Dangerous Goods Regulation, International Carriage of Dangerous Goods by Road (ADR).

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 75

Restriction 3 is not applicable because the mixture does not fall within the restrictions mentioned in Annex XVII of EC Regulation No. 1907/2006.

Restriction 40 is not applicable because the mixture does not fall within the restrictions mentioned in Annex XVII of EC Regulation No. 1907/2006.

Restriction 75 is not applicable because the mixture does not fall within the restrictions mentioned in Annex XVII of EC Regulation No. 1907/2006.

Where applicable, refer to the following regulatory provisions :

Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products. Regulation UE No 649/2012 concerning the export and import of dangerous chemicals. Regulation UE n. 528/2012 concerning the making available on the market and use of biocidal products.

Directive 2012/18/EU (Seveso III)

Regulation (EC) No. 648/2004 (detergents).

Directive 2004/42/CE on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products.

Regulation (EC) No 689/2006 concerning the export and import of dangerous chemicals.

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.

SECTION 16: Other information

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2

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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
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 1	3.9/1	Specific target organ toxicity - repeated exposure, Category 1
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
Flam. Liq. 3, H226	On basis of test data

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.

ATE: Acute Toxicity Estimate

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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.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.