

Safety Data Sheet



RAXON 2K acrylic, ultra-fast, primer filler GREY

Safety Data Sheet dated 05/04/2022 version 5.0 dated 17/5/2024

This safety data sheet has been completely updated in compliance to Regulation 2020/878.

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

1.1. Product identifier

Mixture identification:

Trade name:

RAXON 2K acrylic, ultra-fast, primer filler GREY

Trade code:

RAX8001

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

Recommended use:

Paint / Varnish

IS - Industrial uses

PW - Professional uses

1.3. Details of the supplier of the safety data sheet

Company:

Shop Bodyshop Direct

Unit 17a, Mullaghboy ind. est, Navan, Co. Meath C15 DX8A

Tel: 046-9093800

1.4. Emergency telephone number

Shop Bodyshop Direct

Tel: 046-9093800

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.

Skin Sens. 1A, H317 May cause an allergic skin reaction.

Aquatic Chronic 3, H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

DECL10: This titanium dioxide-containing product is not classified as carcinogen by inhalation because it does not meet the criteria stated in Note 10, Annex VI of Regulation (EC) 1272/2008.

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter $\leq 10 \mu\text{m}$.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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P273 Avoid release to the environment.

P280 Wear protective gloves/clothing and eye/face protection.

P370+P378 In case of fire, use a foam fire extinguisher to extinguish.

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

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Contains

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

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

None

2.3. Other hazards

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:

$\geq 15\%$ - $< 20\%$ n-butyl acetate

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

Flam. Liq. 3 H226 Flammable liquid and vapour.

STOT SE 3 H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

$\geq 12.5\%$ - $< 15\%$ 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, Index number: 022-006-00-2, CAS: 13463-67-7, EC: 236-675-5

The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).

$\geq 5\%$ - $< 7\%$ xylene (mixed isomers)

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

Flam. Liq. 3 H226 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.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

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

Skin Irrit. 2 H315 Causes skin irritation.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

$\geq 1\%$ - $< 2.5\%$ 2-butoxyethyl acetate; butylglycol acetate

REACH No.: 01-2119475112-47-XXXX, Index number: 607-038-00-2, CAS: 112-07-2, EC: 203-933-3

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.



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>= 1% - < 2.5% 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.

>= 1% - < 2.5% Hydrocarbons, C9, aromatics

REACH No.: 01-2119455851-35-XXXX, CAS: 64742-95-6, EC: 918-668-5

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.

>= 1% - < 2.5% isobutyl acetate

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

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

STOT SE 3 H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

>= 0.5% - < 1% acetic acid 99.5%

REACH No.: 01-2119475328-30-XXXX, Index number: 607-002-00-6, CAS: 64-19-7, EC: 200-580-7

Flam. Liq. 3 H226 Flammable liquid and vapour.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Specific Concentration Limits:

C >= 90%: Skin Corr. 1A H314

25% <= C < 90%: Skin Corr. 1B H314

10% <= C < 25%: Skin Irrit. 2 H315

10% <= C < 25%: Eye Irrit. 2 H319

>= 0.25% - < 0.5% Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

REACH No.: 01-2119491304-40-XXXX, CAS: 1065336-91-5, EC: 915-687-0

Skin Sens. 1A H317 May cause an allergic skin reaction.

Repr. 2 H361f Suspected of damaging fertility.

Aquatic Acute 1 H400 Very toxic to aquatic life. M=1.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. M=1.

899 ppm 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.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Acute Tox. 4 H332 Harmful if inhaled.

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

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

223 ppm 2-methoxy-1-methylethyl acetate

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

Flam. Liq. 3 H226 Flammable liquid and vapour.



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STOT SE 3 H336 May cause drowsiness or dizziness.

20 ppm (E)-N-(pentan-2-ylidene)hydroxylamine; 2-Pentanone oxime
REACH No.: 01-0000020248-72-XXXX, CAS: 623-40-5, EC: 484-470-6
Acute Tox. 4 H302 Harmful if swallowed.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2 ppm Cumene
Index number: 601-024-00-X, CAS: 98-82-8, EC: 202-704-5
Flam. Liq. 3 H226 Flammable liquid and vapour.
Carc. 1B H350 May cause cancer.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
STOT SE 3 H335 May cause respiratory irritation.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

90 ppb 1,2-dichlorobenzene; o-dichlorobenzene
REACH No.: 01-2119451167-40-XXXX, Index number: 602-034-00-7, CAS: 95-50-1, EC: 202-425-9
Acute Tox. 4 H332 Harmful if inhaled.
Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1B H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.
Aquatic Acute 1 H400 Very toxic to aquatic life. M=1.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. M=1.

Other information

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

This titanium dioxide-containing product is not classified as carcinogen by inhalation because it does not meet the criteria stated in Note 10, Annex VI of Regulation (EC) 1272/2008.
EUH 211 is voluntarily included in section 2.2.

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.
Wash thoroughly the body (shower or bath).
Remove contaminated clothing immediately and dispose off safely.

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 under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

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

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

None

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



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

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.

Remove persons to safety.

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.

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

Always keep in a well ventilated place.

Store at temperatures close to 20 °C.

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.



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

Product belongs to category:	Lower-tier threshold (tonnes)	Upper-tier threshold (tonnes)
P5c	5000	50000

7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

ACGIH - TWA(8h): 241 mg/m³, 50 ppm - STEL(15min): 723 mg/m³, 150 ppm - Notes: Eye and URT irr

GVI - TWA(8h): 724 mg/m³, 150 ppm - STEL(15min): 966 mg/m³, 200 ppm - Notes: HR - CROAZIA

OSHA PEL - TWA(8h): 710 mg/m³, 150 ppm - Notes: USA - UNITED STATES

NIOSH REL - TWA(Up to 10h): 710 mg/m³, 150 ppm - STEL(15min): 950 mg/m³, 200 ppm - Notes: USA - UNITED STATES

VLA - TWA(8h): 724 mg/m³, 150 ppm - STEL(15min): 965 mg/m³, 200 ppm - Notes: ES - SPAGNA

MAK - TWA(8h): 480 mg/m³, 100 ppm - STEL(15min): 960 mg/m³, 200 ppm - Notes: CH - SUVA (Svizzera), SSc

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

National - TWA(8h): 10 mg/m³ - Notes: ES - SPAIN (Inhalable fraction)

National - TWA(8h): 11 mg/m³ - Notes: FR - FRANCE (Inhalable aerosol)

National - TWA(8h): 10 mg/m³ - STEL(15min): 15 mg/m³ - Notes: RO - ROMANIA

National - TWA(8h): 10 mg/m³ - Notes: PL - POLONIA (Inhalable fraction)

National - TWA(8h): 10 mg/m³ - Notes: PT - PORTUGAL

OSHA PEL - TWA(8h): 15 mg/m³ - Notes: USA - UNITED STATES (Inhalable fraction)

xylene (mixed isomers) - CAS: 1330-20-7

EU - TWA(8h): 221 mg/m³, 50 ppm - STEL(15min): 442 mg/m³, 100 ppm - Notes: Skin

OSHA PEL - TWA(8h): 435 mg/m³, 100 ppm - Notes: USA - UNITED STATES

National - TWA(8h): 220 mg/m³, 50 ppm - STEL(15min): 440 mg/m³, 100 ppm - Notes:

CH - SVIZZERA

National - TWA(8h): 221 mg/m³, 50 ppm - STEL(15min): 442 mg/m³, 100 ppm - Notes:

IT - ITALIA (Skin)

NIOSH - TWA(8h): 435 mg/m³, 100 ppm - STEL(15min): 655 mg/m³, 150 ppm - Notes:

USA - UNITED STATES

ACGIH - TWA(8h): 20 ppm

National - TWA(8h): 221 mg/m³, 50 ppm - STEL(15min): 442 mg/m³, 100 ppm - Notes: ES - SPAIN

National - TWA(8h): 221 mg/m³, 50 ppm - STEL(15min): 442 mg/m³, 100 ppm - Notes:

FR - FRANCE (Skin)

National - TWA(8h): 100 mg/m³ - STEL(15min): 200 mg/m³ - Notes: PL - POLONIA (Skin)

National - TWA(8h): 221 mg/m³, 50 ppm - STEL(15min): 442 mg/m³, 100 ppm - Notes:

RO - ROMANIA

2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2

EU - TWA(8h): 133 mg/m³, 20 ppm - STEL: 333 mg/m³, 50 ppm - Notes: Skin

GVI - TWA(8h): 133 mg/m³, 20 ppm - STEL: 333 mg/m³, 50 ppm - Notes: HR - CROAZIA: K (Skin)

NIOSH REL - TWA(Up to 10h): 33 mg/m³, 5 ppm - Notes: USA - UNITED STATES



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ACGIH - TWA(8h): 20 ppm - Notes: A3 - Hemolysis
VLEP - TWA(8h): 66.5 mg/m³, 10 ppm - STEL: 333 mg/m³, 50 ppm - Notes: Skin
butanone; ethyl methyl ketone - CAS: 78-93-3
EU - TWA(8h): 600 mg/m³, 200 ppm - STEL(15min): 900 mg/m³, 300 ppm
National - TWA(8h): 600 mg/m³, 200 ppm - STEL(15min): 900 mg/m³, 300 ppm - Notes:
IT - ITALIA
National - TWA(8h): 590 mg/m³, 200 ppm - STEL(15min): 590 mg/m³, 200 ppm - Notes:
CH - SVIZZERA
National - TWA(8h): 600 mg/m³, 200 ppm - STEL(15min): 900 mg/m³, 300 ppm - Notes:
ES - SPAIN
National - TWA(8h): 600 mg/m³, 200 ppm - STEL(15min): 900 mg/m³, 300 ppm - Notes:
FR - FRANCE - Skin
National - TWA(8h): 450 mg/m³ - STEL(15min): 900 mg/m³ - Notes: PL - POLONIA -
Skin
National - TWA(8h): 600 mg/m³, 200 ppm - STEL(15min): 900 mg/m³, 300 ppm - Notes:
RO - ROMANIA
National - TWA(8h): 600 mg/m³, 200 ppm - STEL(15min): 600 mg/m³, 200 ppm - Notes:
DE - GERMANY - Skin (AGS)
ACGIH - TWA(8h): 590 mg/m³, 200 ppm - STEL(15min): 885 mg/m³, 300 ppm - Notes:
BEL - URT irr, CNS and PNS impair
NIOSH REL - TWA(Up to 10h): 590 mg/m³, 200 ppm - STEL(15min): 885 mg/m³, 300
ppm - Notes: USA - UNITED STATES
National - TWA(8h): 600 mg/m³, 200 ppm - STEL(15min): 899 mg/m³, 300 ppm - Notes:
UK - UNITED KINGDOM - Skin
OSHA PEL - TWA(8h): 590 mg/m³, 200 ppm - Notes: USA - UNITED STATES
National - TWA(8h): 600 mg/m³, 200 ppm - STEL(15min): 900 mg/m³, 300 ppm - Notes:
SL - SLOVENIA - Skin
isobutyl acetate - CAS: 110-19-0
EU - TWA(8h): 241 mg/m³, 50 ppm - STEL(15min): 723 mg/m³, 150 ppm - Notes:
IOELV
National - TWA(8h): 241 mg/m³, 50 ppm - STEL(15min): 723 mg/m³, 150 ppm - Notes:
IT - ITALIA
National - TWA(8h): 241 mg/m³, 50 ppm - STEL(15min): 723 mg/m³, 150 ppm - Notes:
ES - SPAGNA
National - TWA(8h): 241 mg/m³, 50 ppm - STEL(15min): 723 mg/m³, 150 ppm - Notes:
FR - FRANCIA
National - TWA(8h): 240 mg/m³ - STEL(15min): 720 mg/m³ - Notes: PL - POLONIA
National - TWA(8h): 241 mg/m³, 50 ppm - STEL(15min): 723 mg/m³, 150 ppm - Notes:
RO - ROMANIA
National - TWA(8h): 300 mg/m³, 62 ppm - STEL(15min): 600 mg/m³, 124 ppm - Notes:
DE - GERMANIA - AGS
ACGIH - TWA(8h): 50 ppm - STEL(15min): 150 ppm
OSHA PEL - TWA(8h): 700 mg/m³, 150 ppm - Notes: USA - UNITED STATES
NIOSH REL - TWA(Up to 10h): 700 mg/m³, 150 ppm - Notes: USA - UNITED STATES
MAK - TWA(8h): 240 mg/m³, 50 ppm - STEL(15min): 720 mg/m³, 150 ppm - Notes: CH
- SVIZZERA
acetic acid 99.5% - CAS: 64-19-7
EU - TWA(8h): 25 mg/m³, 10 ppm - STEL: 50 mg/m³, 20 ppm
ACGIH - TWA(8h): 10 ppm - STEL: 15 ppm - Notes: URT and eye irr, pulm func
ethylbenzene - CAS: 100-41-4
EU - TWA(8h): 442 mg/m³, 100 ppm - STEL: 884 mg/m³, 200 ppm - Notes: Skin
National - TWA(8h): 442 mg/m³, 100 ppm - STEL(15min): 884 mg/m³, 200 ppm - Notes:
IT - ITALIA - Skin
National - TWA(8h): 441 mg/m³, 100 ppm - STEL(15min): 884 mg/m³, 200 ppm - Notes:
ES - SPAIN
National - TWA(8h): 88.4 mg/m³, 20 ppm - STEL(15min): 442 mg/m³, 100 ppm - Notes:
FR - FRANCE - Skin
National - TWA(8h): 442 mg/m³, 100 ppm - STEL(15min): 884 mg/m³, 200 ppm - Notes:



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RO - ROMANIA

National - TWA(8h): 200 mg/m³ - STEL(15min): 400 mg/m³ - Notes: PL - POLONIA - Skin

MAK - TWA(8h): 435 mg/m³, 100 ppm - STEL(15min): 435 mg/m³, 100 ppm - Notes: CH - SVIZZERA

ACGIH - TWA(8h): 20 ppm

OSHA PEL - TWA(8h): 435 mg/m³, 100 ppm - Notes: USA - UNITED STATES

NIOSH REL - TWA(Up to 10h): 435 mg/m³, 100 ppm - STEL(15min): 545 mg/m³, 125 ppm - Notes: USA - UNITED STATES

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

EU - TWA(8h): 275 mg/m³, 50 ppm - STEL(15min): 550 mg/m³, 100 ppm - Notes: (IOELV)

National - TWA(8h): 275 mg/m³, 50 ppm - STEL(15min): 550 mg/m³, 100 ppm - Notes:

IT - ITALIA (Skin)

National - TWA(8h): 275 mg/m³, 50 ppm - STEL(15min): 550 mg/m³, 100 ppm - Notes:

ES - SPAIN (Skin)

National - TWA(8h): 275 mg/m³, 50 ppm - STEL(15min): 550 mg/m³, 100 ppm - Notes:

FR - FRANCE (Skin)

National - TWA(8h): 270 mg/m³, 50 ppm - STEL(15min): 270 mg/m³, 50 ppm - Notes:

DE - GERMANIA (AGS)

National - TWA(8h): 275 mg/m³, 50 ppm - STEL(15min): 550 mg/m³, 100 ppm - Notes:

RO - ROMANIA

National - TWA(8h): 260 mg/m³ - STEL(15min): 520 mg/m³ - Notes: PL - POLONIA (Skin)

National - TWA(8h): 274 mg/m³, 50 ppm - STEL(15min): 548 mg/m³, 100 ppm - Notes:

GBR - REGNO UNITO (Skin)

National - TWA(8h): 275 mg/m³, 50 ppm - STEL(15min): 275 mg/m³, 50 ppm - Notes:

CH - SVIZZERA

Cumene - CAS: 98-82-8

EU - TWA(8h): 50 mg/m³, 10 ppm - STEL: 250 mg/m³, 50 ppm - Notes: Skin

ACGIH - TWA(8h): 5 ppm - Notes: A3 - URT adenoma, neurological eff

OSHA PEL - TWA(8h): 245 mg/m³, 50 ppm - Notes: USA - UNITED STATES - Skin

NIOSH REL - TWA(Up to 10h): 245 mg/m³, 50 ppm - Notes: USA - UNITED STATES [skin]

1,2-dichlorobenzene; o-dichlorobenzene - CAS: 95-50-1

EU - TWA(8h): 122 mg/m³, 20 ppm - STEL: 306 mg/m³, 50 ppm - Notes: Skin

ACGIH - TWA(8h): 25 ppm - STEL: 50 ppm - Notes: A4 - URT and eye irr, Liver dam

OSHA PEL - STEL: Ceiling 300 mg/m³, Ceiling 50 ppm - Notes: USA - UNITED STATES

NIOSH REL - STEL(15min): Ceiling 300 mg/m³, Ceiling 50 ppm - Notes: USA - UNITED STATES

DNEL Exposure Limit Values

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

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

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: 11 mg/kg bw/d - Worker Professional: 11 mg/kg bw/d - Consumer: 6 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 2 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects

xylene (mixed isomers) - CAS: 1330-20-7

Worker Industry: 442 mg/m³ - Worker Professional: 442 mg/m³ - Consumer: 260 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 221 mg/m³ - Worker Professional: 221 mg/m³ - Consumer: 65.3 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 212 mg/kg bw/d - Worker Professional: 212 mg/kg bw/d - Consumer: 125 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 12.5 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects



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effects

2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2

Worker Industry: 133 mg/m³ - Worker Professional: 133 mg/m³ - Consumer: 80 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 120 mg/kg bw/d - Worker Professional: 120 mg/kg bw/d - Consumer: 72 mg/kg bw/d - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Industry: 333 mg/m³ - Worker Professional: 333 mg/m³ - Consumer: 200 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 169 mg/kg bw/d - Worker Professional: 169 mg/kg bw/d - Consumer: 102 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 36 mg/kg bw/d - Exposure: Human Oral - Frequency: Short Term, systemic effects

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

Worker Industry: 1161 mg/kg - Worker Professional: 1161 mg/kg - Consumer: 412 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 600 mg/m³ - Worker Professional: 600 mg/m³ - Consumer: 106 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 31 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects

Hydrocarbons, C₉, aromatics - CAS: 64742-95-6

Consumer: 7.5 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 151 mg/m³ - Worker Professional: 151 mg/m³ - Consumer: 32 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 12.5 mg/kg bw/d - Worker Professional: 12.5 mg/kg bw/d - Consumer: 7.5 mg/kg bw/d - 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 - Consumer: 5 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 10 mg/kg bw/d - Worker Professional: 10 mg/kg bw/d - Consumer: 5 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

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate - CAS: 1065336-91-5

Worker Industry: 1.27 mg/m³ - Worker Professional: 1.27 mg/m³ - Consumer: 0.31 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 1.8 mg/kg bw/d - Worker Professional: 1.8 mg/kg bw/d - Consumer: 0.9 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 0.18 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects

ethylbenzene - CAS: 100-41-4

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

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

Worker Industry: 180 mg/kg bw/d - Worker Professional: 180 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

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 -



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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
Consumer: 500 mg/kg bw/d - Exposure: Human Oral - Frequency: Short Term, systemic effects

(E)-N-(pentan-2-ylidene)hydroxylamine; 2-Pentanone oxime - CAS: 623-40-5
Worker Industry: 51.54 mg/m³ - Worker Professional: 51.54 mg/m³ - Consumer: 10.99 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 0.097 mg/kg bw/d - Worker Professional: 0.097 mg/kg bw/d - Consumer: 0.042 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 0.042 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects

1,2-dichlorobenzene; o-dichlorobenzene - CAS: 95-50-1
Worker Industry: 21 mg/m³ - Worker Professional: 21 mg/m³ - Consumer: 5 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 4.2 mg/m³ - Worker Professional: 4.2 mg/m³ - Consumer: 1 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 1.2 mg/kg bw/d - Worker Professional: 1.2 mg/kg bw/d - Consumer: 0.6 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 0.6 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects
Consumer: 3 mg/kg bw/d - Exposure: Human Oral - Frequency: Short Term, systemic effects

PNEC Exposure Limit Values

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: 0.981 mg/kg
Target: Marine water sediments - Value: 0.098 mg/kg

xylene (mixed isomers) - 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

2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2
Target: Microorganisms in sewage treatments - Value: 90 mg/l
Target: Fresh Water - Value: 0.304 mg/l
Target: Marine water - Value: 0.0304 mg/l
Target: Freshwater sediments - Value: 2.03 mg/kg
Target: Soil (agricultural) - Value: 0.415 mg/kg

butanone; ethyl methyl ketone - CAS: 78-93-3
Target: Fresh Water - Value: 55.8 mg/l
Target: Marine water - Value: 55.8 mg/l
Target: Freshwater sediments - Value: 284.74 mg/kg
Target: Soil (agricultural) - Value: 22.5 mg/kg
Target: Microorganisms in sewage treatments - Value: 709 mg/l

isobutyl acetate - CAS: 110-19-0
Target: Freshwater sediments - Value: 0.877 mg/kg
Target: Marine water sediments - Value: 0.088 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

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate - CAS: 1065336-91-5

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- Target: Fresh Water - Value: 2.2 µg/l
Target: Marine water - Value: 0.22 µg/l
Target: Freshwater sediments - Value: 1.05 mg/kg
Target: Marine water sediments - Value: 0.11 mg/kg
Target: Soil (agricultural) - Value: 0.21 mg/kg
- ethylbenzene - CAS: 100-41-4
Target: Fresh Water - Value: 0.1 mg/l
Target: Marine water - Value: 0.01 mg/l
Target: Freshwater sediments - Value: 13.7 mg/kg
Target: Marine water sediments - Value: 1.37 mg/kg
Target: Soil (agricultural) - Value: 2.68 mg/kg
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Target: Fresh Water - Value: 0.635 mg/l
Target: Marine water - Value: 0.064 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
- (E)-N-(pentan-2-ylidene)hydroxylamine; 2-Pentanone oxime - CAS: 623-40-5
Target: Fresh Water - Value: 0.088 mg/l
Target: Marine water - Value: 0.009 mg/l
Target: Freshwater sediments - Value: 0.5 mg/kg
Target: Marine water sediments - Value: 0.05 mg/kg
Target: Soil (agricultural) - Value: 0.05 mg/kg
- 1,2-dichlorobenzene; o-dichlorobenzene - CAS: 95-50-1
Target: Fresh Water - Value: 3.7 µg/l
Target: Marine water - Value: 0.37 µg/l
Target: Freshwater sediments - Value: 0.177 mg/kg
Target: Marine water sediments - Value: 0.0177 mg/kg
Target: Microorganisms in sewage treatments - Value: 4.7 mg/l

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

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

Protection for hands:

Use chemical resistant protective gloves (for chemicals and micro-organisms) complying with EN 374 regulation, which guarantee total protection.

For the definitive choice of material for work gloves, consider compatibility, degradation, breaking time and permeation.

The gloves have a wear time that depends on the length and on the use.

There is no material or combination of gloves materials that guarantees unlimited resistance to any single chemical or chemical compound.

Observe the instructions and information provided by the gloves manufacturer regarding use, storage, maintenance and replacement.

Gloves should be replaced regularly and whenever there are signs of damage.

Always make sure that the gloves are free from defects and that they are properly preserved and used.

Performance or effectiveness of glove can be reduced by physical/chemical damage and by poor maintenance.

Protective creams can increase the protective screen on the exposed areas of the skin, but should not be applied once the skin has already been exposed. After contact, rinse the skin thoroughly.

When frequent or prolonged contact is to be expected, the use of class 6 protective gloves (permeation time > 480 minutes according to EN3740-3) is recommended.

In case of occasional contact it is recommended the use of class 2 protective gloves (permeation time > 30 minutes according to EN 3740-3).

The user is required to evaluate which type of gloves best suits, basing on their use conditions

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and on the corresponding combination of risks.

NB: The choice of gloves must also take into account other specific job-related work, such as the presence of other chemicals, physical hazards and possible allergic reactions to the material used to manufacture the glove, so consult your supplier.

Respiratory protection:

Use an adequate respiratory device.

The choice of respirator must be based on known or expected exposure levels, on product risks and on safe operating limits of the selected respirator.

If the employees are exposed to concentrations above the exposure limit, we recommend wearing a Type A filter mask, whose class (1, 2 or 3) should be chosen in relation to the limit concentration of use (standard EN 14387).

In the case of gases or vapors of different nature, combine type filters (DIN EN 141) should be provided.

The use of respiratory protection means is necessary if the technical measures taken are not sufficient to limit the exposure of workers to the threshold values taken into account.

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

Emissions from production processes, including those from ventilation equipment, should be checked for compliance with environmental protection regulations.

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Grey	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	>35°C / >95°F	--	--
Flammability:	Flammable	--	--
Lower and upper explosion limit:	LEL 1.2% - UEL 7.5% v/v (n-butyl acetate)	Extrapolation from Raw Material SDS	--
Flash point:	23 °C	EN ISO 3679	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	Not Relevant	--	--
Kinematic viscosity:	ca. 1400	--	--

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	mm ² /s (40°C)		
Solubility in water:	insoluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1.510 g/cm ³ - 20°C / 68°F	ISO 2811	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes
Viscosity:	4000-5000 mPa.s - A4V20	ISO 2555	--

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:

ACRIFILLER FAST - GREY R7040

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



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- d) respiratory or skin sensitisation
The product is classified: Skin Sens. 1A H317
- 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
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:

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

a) acute toxicity:

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 21 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 10760 mg/kg bw

Test: LD50 - Route: Skin - Species: Rabbit = 14112 mg/kg bw

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 > 5000 mg/kg - Source: OECD 425

Test: LC50 - Route: Inhalation - Species: Rat > 6.82 mg/l - Duration: 4h

b) skin corrosion/irritation:

Test: Skin Corrosive - Route: Skin No

c) serious eye damage/irritation:

Test: Eye Corrosive No

d) respiratory or skin sensitisation:

No

e) germ cell mutagenicity:

No

f) carcinogenicity:

No

xylene (mixed isomers) - CAS: 1330-20-7

a) acute toxicity:

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

Test: LD50 - Route: Skin - Species: Rabbit > 5000 ml/kg

Test: LD50 - Route: Oral - Species: Rat = 5627 mg/kg

2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1880 mg/kg bw/day

Test: LD50 - Route: Skin - Species: Rabbit = 1500 mg/kg bw/day

Test: LC50 - Route: Inhalation - Species: Rat > 400 ppm - Duration: 4h

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

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2193 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Hydrocarbons, C9, aromatics - CAS: 64742-95-6

a) acute toxicity:

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 6193 mg/m³ - Duration: 4h

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- Test: LD50 - Route: Oral - Species: Rat > 3492 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg
isobutyl acetate - CAS: 110-19-0
- a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit > 17400 mg/kg bw/day
Test: LD50 - Route: Oral - Species: Rat = 13413 mg/kg bw
Test: LC50 - Route: Inhalation Vapour - Species: Rat > 23.4 mg/l - Duration: 4h
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl
1,2,2,6,6-pentamethyl-4-piperidyl sebacate - CAS: 1065336-91-5
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 3230 mg/kg bw
Test: LD50 - Route: Skin - Species: Rat > 3170 mg/kg bw
- b) skin corrosion/irritation:
Test: Skin Irritant - Route: Skin - Species: Rabbit Negative
- c) serious eye damage/irritation:
Test: Eye Irritant Negative
- ethylbenzene - CAS: 100-41-4
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 3500 mg/kg bw/day
Test: LD50 - Route: Skin - Species: Rabbit = 15400 mg/kg bw
Test: LC50 - Route: Inhalation - Species: Rat = 2180 ppm - Duration: 4h
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
Test: LC50 - Route: Inhalation Vapour - Species: Rat > 23.5 mg/l
- (E)-N-(pentan-2-ylidene)hydroxylamine; 2-Pentanone oxime - CAS: 623-40-5
- a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 1133 mg/kg
- b) skin corrosion/irritation:
Test: Skin Irritant - Route: Skin - Species: Rabbit Negative
- c) serious eye damage/irritation:
Test: Eye Irritant - Species: Rabbit Positive
- d) respiratory or skin sensitisation:
Species: Guinea pig Negative
- i) STOT-repeated exposure:
Test: NOAEL - Route: Inhalation Vapour - Species: Rat = 615.4 mg/m³ - Duration: 90d
Test: NOAEL - Route: Oral - Species: Rat = 15 mg/kg - Notes: 28 d

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.

ACRIFILLER FAST - GREY R7040

The product is classified: Aquatic Chronic 3 - H412

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 = 675 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

titanium dioxide; [in powder form containing less than 1 % of particles with aerodynamic diameter \leq

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10 µm] - CAS: 13463-67-7

a) Aquatic acute toxicity:

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

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72

xylene (mixed isomers) - CAS: 1330-20-7

a) Aquatic acute toxicity:

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

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

Endpoint: EC50 - Species: Algae = 1.3 mg/l - Duration h: 72

2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 145 mg/l - Duration h: 24

Endpoint: EC50 - Species: Algae = 1570 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish > 20-40 mg/l - Duration h: 96

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

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 308 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 2029 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish = 2993 mg/l - Duration h: 96

Hydrocarbons, C9, aromatics - CAS: 64742-95-6

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: EC50 - Species: Algae = 2.9 mg/l - Duration h: 72

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

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate - CAS: 1065336-91-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.9 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae = 1.68 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 1 mg/l - Notes: 21 d

c) Bacteria toxicity:

Endpoint: EC50 > 100 mg/l

ethylbenzene - CAS: 100-41-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1.8 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 5.1 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae = 3.6 mg/l

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

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 134 mg/l - Duration h: 96

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

Endpoint: EC50 - Species: Daphnia > 500 mg/l - Duration h: 48

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 47.5 mg/l - Notes: 14 d

Endpoint: NOEC - Species: Daphnia > 100 mg/l - Notes: 21 d

(E)-N-(pentan-2-ylidene)hydroxylamine; 2-Pentanone oxime - CAS: 623-40-5

a) Aquatic acute toxicity:

Endpoint: NOEC - Species: Fish = 100 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae = 88 mg/l - Duration h: 72



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Endpoint: NOEC - Species: Daphnia > 100 mg/l - Duration h: 48

12.2. Persistence and degradability

None

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

Biodegradability: Readily biodegradable

2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2

Biodegradability: Readily biodegradable

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

Biodegradability: Readily biodegradable

isobutyl acetate - CAS: 110-19-0

Biodegradability: Readily biodegradable

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate - CAS: 1065336-91-5

Biodegradability: Non-readily biodegradable

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

Biodegradability: Readily biodegradable

(E)-N-(pentan-2-ylidene)hydroxylamine; 2-Pentanone oxime - CAS: 623-40-5

Biodegradability: Non-readily biodegradable

12.3. Bioaccumulative potential

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

Test: BCF - Bioconcentration factor 15.3

Test: Kow - Partition coefficient 2.3 - Notes: n-ottanolo/acqua

2-butoxyethyl acetate; butylglycol acetate - CAS: 112-07-2

Test: Kow - Partition coefficient 1.51

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

Bioaccumulation: Not bioaccumulative

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate - CAS: 1065336-91-5

Test: BCF - Bioconcentration factor

12.4. Mobility in soil

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

Mobility in soil: Not mobile

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

Mobility in soil: Mobile

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

Recycle/Recover if possible. Send to authorized disposal or recovery facilities. Operate according to local and national regulations.

PRODUCT DISPOSAL: If recycling or reuse is not possible, send for recovery or disposal in authorized facilities. Comply with all local and national regulations.

DISPOSAL OF PACKAGING: Dispose the contaminated packaging in the same way as the product. Send empty and cleaned packaging for disposal or recovery in compliance with applicable local and national regulations.

DISPOSAL INFORMATION: Do not pour directly or indirectly into bodies of water, groundwater, soil or public treatment plant.

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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
ADR-Shipping Name: PAINT
IATA-Shipping Name: PAINT
IMDG-Shipping Name: PAINT
- 14.3. Transport hazard class(es)
ADR-Class: 3
ADR - Hazard identification number: 30
IATA-Class: 3
IATA-Label: 3
IMDG-Class: 3
- 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)
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
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) n. 2020/878
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)



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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)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 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 30

Restriction 75

Volatile Organic compounds - VOCs = 27.09 %

Volatile Organic compounds - VOCs = 410.18 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.19

Where applicable, refer to the following regulatory provisions :

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

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:

n-butyl acetate

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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



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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 Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
Carc. 1B	3.6/1B	Carcinogenicity, Category 1B
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 Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
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

This safety data sheet has been completely updated in compliance to Regulation 2020/878. Paragraphs modified from the previous revision:

- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 15: Regulatory information
- SECTION 16: Other information

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
Skin Sens. 1A, H317	Calculation method



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Aquatic Chronic 3, H412	Calculation method
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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
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.

Exposure Scenario, 24/10/2019

Substance identity

Chemical name	acetato di n-butile
CAS No.	123-86-4
INDEX No.	607-025-00-1
EINECS No.	204-658-1

Table of contents

1. **ES 1** Use at industrial site; Coatings and paints, thinners, paint removers (PC9a)
2. **ES 2** Widespread use by professional workers; Coatings and paints, thinners, paint removers (PC9a)
3. **ES 3** Consumer use; Coatings and paints, thinners, paint removers (PC9a)

1. ES 1

Use at industrial site; Coatings and paints, thinners, paint removers (PC9a)

1.1 TITLE SECTION

Exposure Scenario name	Industrial manufacture of coatings and inks
Date - Version	01/07/2019 - 1.0
Life Cycle Stage	Use at industrial site
Main user group	Industrial uses
Sector(s) of use	Industrial uses (SU3)
Product Categories	Coatings and paints, thinners, paint removers (PC9a)

Environment Contributing Scenario

CS1 Solvent-based process	ERC4
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Worker Contributing Scenario

CS2 Spraying	PROC7
CS3 Rolling, Brushing	PROC10
CS4 Rolling, Brushing	PROC10
CS5 Dipping, immersion and pouring	PROC13

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC4)

Environmental release categories	Use of non-reactive processing aid at industrial site (no inclusion into or onto article) (ERC4)
----------------------------------	--

*Amount used, frequency and duration of use (or from service life)***Amounts used:**

Application rate = 5000 t(tonnes)/year

Maximum allowable site tonnage (MSafe): 1080.7 kg/day**Critical compartment for Msafe:** soil**Emission days:** 225 days per year*Technical and organisational conditions and measures***Control measures to prevent releases**

Waste gas treatment by thermal oxidation

*Conditions and measures related to sewage treatment plant***STP type:**

Municipal Sewage Treatment Plant

STP effluent (m³/day): 2000*Other conditions affecting environmental exposure***Local marine water dilution factor:** 100**Local freshwater dilution factor:** 10**Receiving surface water flow:** 18000 m³/day

1.2. CS2: Worker Contributing Scenario: Spraying (PROC7)

Process Categories	Industrial spraying (PROC7)
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Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

= 1120 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

= 480 min

Frequency:

= 5 days per week

Technical and organisational conditions and measures

Technical and organisational measures

Ensure that direct skin contact is avoided.

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of: = 90 %

Wear an impervious suit.

Other conditions affecting worker exposure

Indoor use

Industrial use

Temperature: Covers use at ambient temperatures.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.

Additional Good Practice Advice:

Ensure segregation of worker from the source. Ensure that a spraying booth is used.

1.2. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Process Categories

Roller application or brushing (PROC10)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

= 1120 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Technical and organisational conditions and measures

Technical and organisational measures

Ensure that direct skin contact is avoided.

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of: = 90 %

Wear an impervious suit.

Other conditions affecting worker exposure

Indoor use

Industrial use

Temperature: Covers use at ambient temperatures.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.

Additional Good Practice Advice:

Ensure segregation of worker from the source. Ensure that a spraying booth is used.

1.2. CS4: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Process Categories

Roller application or brushing (PROC10)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

= 1120 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

= 480 min

Frequency:

= 5 days per week

Technical and organisational conditions and measures

Technical and organisational measures

Local exhaust ventilation

Inhalation - minimum efficiency of: = 90 %

Ensure operatives are trained to minimise exposures.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of: = 90 %

Other conditions affecting worker exposure

Indoor use

Industrial use

Temperature: Covers use at ambient temperatures.

1.2. CS5: Worker Contributing Scenario: Dipping, immersion and pouring (PROC13)

Process Categories

Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

= 1120 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

= 480 min

Frequency:

= 5 days per week

Technical and organisational conditions and measures

Technical and organisational measures

Local exhaust ventilation	Inhalation - minimum efficiency of: = 90 %
Ensure operatives are trained to minimise exposures.	

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.	Dermal - minimum efficiency of: = 90 %
---------------------------------------	--

Other conditions affecting worker exposure

Indoor use

Industrial use

Temperature: Covers use at ambient temperatures.

1.3 Exposure estimation and reference to its source

1.3. CS1: Environment Contributing Scenario: Solvent-based process (ERC4)

Release route	Release rate	Release estimation method
Air	0.8 %	N/A
Water	2 %	N/A
soil	0 %	N/A

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
soil	N/A	EASY TRA v4.1	= 0.925355

1.3. CS2: Worker Contributing Scenario: Spraying (PROC7)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	= 4.2857 mg/kg bw/day	EASY TRA v4.1	= 0.38961
inhalative, systemic, long-term	= 0.0001 mg/m ³	EASY TRA v4.1	= 1E-06

1.3. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	= 4.2857 mg/kg bw/day	EASY TRA v4.1	= 0.38961
inhalative, systemic, long-term	= 0.0001 mg/m ³	EASY TRA v4.1	= 1E-06

1.3. CS4: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	= 2.7429 mg/kg bw/day	EASY TRA v4.1	= 0.249351
inhalative, systemic, long-term	= 24.1996 mg/m ³	EASY TRA v4.1	= 0.080665

1.3. CS5: Worker Contributing Scenario: Dipping, immersion and pouring (PROC13)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	= 1.3714 mg/kg bw/day	EASY TRA v4.1	= 0.124675
inhalative, systemic, long-term	= 24.1996 mg/m ³	EASY TRA v4.1	= 0.080665

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

2. ES 2

Widespread use by professional workers; Coatings and paints, thinners, paint removers (PC9a)

2.1 TITLE SECTION

Exposure Scenario name	Professional application of coatings and inks
Date - Version	01/07/2019 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)
Product Categories	Coatings and paints, thinners, paint removers (PC9a)

Environment Contributing Scenario

CS1 Solvent-based process	ERC8a
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Worker Contributing Scenario

CS2 Rolling, Brushing	PROC10
CS3 Spraying	PROC11
CS4 Spraying	PROC11
CS5 Spraying	PROC11
CS6 Dipping, immersion and pouring	PROC13

2.2 Conditions of use affecting exposure

2.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC8a)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)
----------------------------------	---

*Amount used, frequency and duration of use (or from service life)***Amounts used:**

Application rate = 2000 t(tonnes)/year

Maximum allowable site tonnage (MSafe): 1934.6 kg/day**Critical compartment for Msafe:** freshwater sediment**Emission days:** 225 days per year*Conditions and measures related to sewage treatment plant***STP type:**

Municipal Sewage Treatment Plant

STP effluent (m³/day): 2000*Other conditions affecting environmental exposure***Local marine water dilution factor:** 100**Local freshwater dilution factor:** 10**Receiving surface water flow:** 18000 m³/day

2.2. CS2: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Process Categories	Roller application or brushing (PROC10)
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Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

= 1120 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

= 480 min

Frequency:

= 5 days per week

Technical and organisational conditions and measures

Technical and organisational measures

Ensure operatives are trained to minimise exposures.

Provide a good standard of controlled ventilation (5 to 10 air changes per hour).

Inhalation - minimum efficiency of: = 70 %

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of: = 90 %

Other conditions affecting worker exposure

Indoor use

Professional use

Temperature: Covers use at ambient temperatures.

2.2. CS3: Worker Contributing Scenario: Spraying (PROC11)

Process Categories

Non industrial spraying (PROC11)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

= 1120 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

= 480 min

Frequency:

= 5 days per week

Technical and organisational conditions and measures

Technical and organisational measures

Ensure operatives are trained to minimise exposures.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Ensure that direct skin contact is avoided.
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Ensure segregation of worker from the source.
Ensure that a spraying booth is used.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of: = 90 %

Wear an impervious suit.

Other conditions affecting worker exposure

Indoor use
Professional use

Temperature: Covers use at ambient temperatures.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.

Additional Good Practice Advice:

Ensure that a spraying booth is used.

2.2. CS4: Worker Contributing Scenario: Spraying (PROC11)

Process Categories

Non industrial spraying (PROC11)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

= 1120 Pa

Concentration of substance in product:

Covers concentrations up to 45 %

Amount used, frequency and duration of use/exposure

Duration:

= 480 min

Frequency:

= 5 days per week

Technical and organisational conditions and measures

Technical and organisational measures

Ensure operatives are trained to minimise exposures.
Ensure regular inspection, cleaning and maintenance of equipment and machines.
Ensure that direct skin contact is avoided.
Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.
Open doors and windows.
Local exhaust ventilation

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of: = 90 %

Wear an impervious suit.

Other conditions affecting worker exposure

Indoor use
Professional use

Temperature: Covers use at ambient temperatures.

2.2. CS5: Worker Contributing Scenario: Spraying (PROC11)

Process Categories Non industrial spraying (PROC11)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

= 1120 Pa

Concentration of substance in product:

Covers concentrations up to 45 %

Amount used, frequency and duration of use/exposure

Duration:

= 480 min

Frequency:

= 5 days per week

Technical and organisational conditions and measures

Technical and organisational measures

Ensure operatives are trained to minimise exposures.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Ensure that direct skin contact is avoided.

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Open doors and windows.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of: = 90 %

Wear an impervious suit.

Wear suitable respiratory protection.

Other conditions affecting worker exposure

Indoor use
Professional use

Temperature: Covers use at ambient temperatures.

2.2. CS6: Worker Contributing Scenario: Dipping, immersion and pouring (PROC13)

Process Categories Treatment of articles by dipping and pouring (PROC13)

Product (article) characteristics

Physical form of product:

Liquid

Vapour pressure:

= 1120 Pa

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

= 480 min

Frequency:

= 5 days per week

Technical and organisational conditions and measures**Technical and organisational measures**

Ensure operatives are trained to minimise exposures.

Supervision in place to check that the risk management measures in place are being used correctly and operation conditions followed.

Provide a good standard of controlled ventilation (5 to 10 air changes per hour).

Inhalation - minimum efficiency of: = 70 %

Conditions and measures related to personal protection, hygiene and health evaluation**Personal protection**

Wear suitable gloves tested to EN374.

Dermal - minimum efficiency of: = 90 %

Other conditions affecting worker exposure

Indoor use

Professional use

Temperature: Covers use at ambient temperatures.**2.3 Exposure estimation and reference to its source****2.3. CS1: Environment Contributing Scenario: Solvent-based process (ERC8a)**

Release route	Release rate	Release estimation method
Air	99 %	N/A
Water	1 %	N/A
soil	0 %	N/A

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater sediment	N/A	EASY TRA v4.1	= 0.012923

2.3. CS2: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	= 2.7429 mg/kg bw/day	EASY TRA v4.1	= 0.249351
inhalative, systemic, long-term	= 145.1979 mg/m ³	EASY TRA v4.1	= 0.483993

2.3. CS3: Worker Contributing Scenario: Spraying (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	= 10.7143 mg/kg bw/day	EASY TRA v4.1	= 0.974026
inhalative, systemic, long-term	= 0.0001 mg/m ³	EASY TRA v4.1	= 1E-06

2.3. CS4: Worker Contributing Scenario: Spraying (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	= 4.8214 mg/kg bw/day	EASY TRA v4.1	= 0.438312
inhalative, systemic, long-term	= 153 mg/m ³	EASY TRA v4.1	= 0.51

2.3. CS5: Worker Contributing Scenario: Spraying (PROC11)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	= 4.8214 mg/kg bw/day	EASY TRA v4.1	= 0.438312
inhalative, systemic, long-term	= 116 mg/m ³	EASY TRA v4.1	= 0.386667

2.3. CS6: Worker Contributing Scenario: Dipping, immersion and pouring (PROC13)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, long-term	= 1.3714 mg/kg bw/day	EASY TRA v4.1	= 0.124675
inhalative, systemic, long-term	= 145.1979 mg/m ³	EASY TRA v4.1	= 0.483993

2.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

3. ES 3 Consumer use; Coatings and paints, thinners, paint removers (PC9a)

3.1 TITLE SECTION

Exposure Scenario name	Consumer application of coatings
Date - Version	01/07/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Coatings and paints, thinners, paint removers (PC9a)

Environment Contributing Scenario

CS1 Solvent-based process	ERC8a
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Consumer Contributing Scenario

CS2 Consumer	PC9a
CS3 Consumer	PC9a
CS4 Consumer	PC9a
CS5 Consumer	PC9a
CS6 Consumer	PC9a
CS7 Consumer	PC9a
CS8 Consumer	PC9a
CS9 Consumer	PC9a
CS10 Consumer	PC9a
CS11 Consumer	PC9a

3.2 Conditions of use affecting exposure

3.2. CS1: Environment Contributing Scenario: Solvent-based process (ERC8a)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)
----------------------------------	---

Amount used, frequency and duration of use (or from service life)

Amounts used:
Application rate = 1000 t(tonnes)/year

Maximum allowable site tonnage (MSafe): 111.9 kg/day

Critical compartment for Msafe: freshwater sediment

Emission days: 365 days per year

Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

Receiving surface water flow: 18000 m³/day

3.2. CS2: Consumer Contributing Scenario: Consumer (PC9a)

Product Categories Coatings and paints, thinners, paint removers (PC9a)

Product (article) characteristics

Vapour pressure:

= 1120 Pa

Concentration of substance in product:

Covers concentrations up to 2 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use = 1E-05 mg

Other conditions affecting consumers exposure

Temperature: Covers use at ambient temperatures.

3.2. CS3: Consumer Contributing Scenario: Consumer (PC9a)

Product Categories Coatings and paints, thinners, paint removers (PC9a)

Product (article) characteristics

Vapour pressure:

= 1120 Pa

Concentration of substance in product:

Covers concentrations up to 1.3 %

Amount used, frequency and duration of use/exposure

Amounts used:

Amount per use = 0.0005 mg

Duration:

Exposure duration = 60 min

Duration:

Application interval = 60 min

Other conditions affecting consumers exposure

Room size: Release area = 2 m²

Temperature: Covers use at ambient temperatures.

3.2. CS4: Consumer Contributing Scenario: Consumer (PC9a)

Product Categories Coatings and paints, thinners, paint removers (PC9a)

Product (article) characteristics

Vapour pressure:

= 1120 Pa

Concentration of substance in product:

Covers concentrations up to 1.3 %

Amount used, frequency and duration of use/exposure

Amounts used:

= 3E-05 kg/min

Duration:

Exposure duration = 132 min

Duration:
Application interval = 120 min

Other conditions affecting consumers exposure

Room size: Release area = 10 m²

Temperature: Covers use at ambient temperatures.

3.2. CS5: Consumer Contributing Scenario: Consumer (PC9a)

Product Categories Coatings and paints, thinners, paint removers (PC9a)

Product (article) characteristics

Vapour pressure:
= 1120 Pa

Concentration of substance in product:
Covers concentrations up to 18 %

Amount used, frequency and duration of use/exposure

Amounts used:
= 0.0001 kg/min

Duration:
Spray duration = 900 sec

Duration:
Exposure duration = 20 min

Information and behavioural advice for consumers

Information and behavioural advice for consumers:
Ensure spraying away from persons.

Other conditions affecting consumers exposure

Room size: = 34 m³

Temperature: Covers use at ambient temperatures.

Ventilation rate: Open doors and windows. = 1.5

3.2. CS6: Consumer Contributing Scenario: Consumer (PC9a)

Product Categories Coatings and paints, thinners, paint removers (PC9a)

Product (article) characteristics

Vapour pressure:
= 1120 Pa

Concentration of substance in product:
Covers concentrations up to 1.3999 %

Amount used, frequency and duration of use/exposure

Amounts used:
= 3E-05 kg/min

Duration:
Exposure duration = 132 min

Duration:
Application interval = 120 min

Other conditions affecting consumers exposure

Room size: Release area = 10 m²

Temperature: Covers use at ambient temperatures.

3.2. CS7: Consumer Contributing Scenario: Consumer (PC9a)

Product Categories	Coatings and paints, thinners, paint removers (PC9a)
<i>Product (article) characteristics</i>	
Vapour pressure:	= 1120 Pa
Concentration of substance in product:	Covers concentrations up to 17 %
<i>Amount used, frequency and duration of use/exposure</i>	
Amounts used:	Amount per use = 0.0001 kg
Duration:	Exposure duration = 180 min
Duration:	Application interval = 120 min
<i>Other conditions affecting consumers exposure</i>	
Room size:	Release area = 0.025 m ²
Temperature:	Covers use at ambient temperatures.

3.2. CS8: Consumer Contributing Scenario: Consumer (PC9a)

Product Categories	Coatings and paints, thinners, paint removers (PC9a)
<i>Product (article) characteristics</i>	
Vapour pressure:	= 1120 Pa
Concentration of substance in product:	Covers concentrations up to 1.1 %
<i>Amount used, frequency and duration of use/exposure</i>	
Amounts used:	= 3E-05 kg/min
Duration:	Exposure duration = 132 min
Duration:	Application interval = 120 min
<i>Other conditions affecting consumers exposure</i>	
Room size:	Release area = 10 m ²
Temperature:	Covers use at ambient temperatures.

3.2. CS9: Consumer Contributing Scenario: Consumer (PC9a)

Product Categories	Coatings and paints, thinners, paint removers (PC9a)
<i>Product (article) characteristics</i>	
Vapour pressure:	= 1120 Pa
Concentration of substance in product:	Covers concentrations up to 2 %
<i>Amount used, frequency and duration of use/exposure</i>	
Amounts used:	Amount per use = 0.019 kg

Other conditions affecting consumers exposure

Temperature: Covers use at ambient temperatures.

3.2. CS10: Consumer Contributing Scenario: Consumer (PC9a)

Product Categories	Coatings and paints, thinners, paint removers (PC9a)
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Product (article) characteristics

Vapour pressure:
= 1120 Pa

Concentration of substance in product:
Covers concentrations up to 2 %

Amount used, frequency and duration of use/exposure

Amounts used:
= 3E-05 kg/min

Duration:
Exposure duration = 240 min

Duration:
Application interval = 240 min

Other conditions affecting consumers exposure

Room size: Release area = 5 m²

Temperature: Covers use at ambient temperatures.

3.2. CS11: Consumer Contributing Scenario: Consumer (PC9a)

Product Categories	Coatings and paints, thinners, paint removers (PC9a)
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Product (article) characteristics

Vapour pressure:
= 1120 Pa

Concentration of substance in product:
Covers concentrations up to 0.5999 %

Amount used, frequency and duration of use/exposure

Amounts used:
= 3E-05 kg/min

Duration:
Exposure duration = 132 min

Duration:
Application interval = 120 min

Other conditions affecting consumers exposure

Room size: Release area = 15 m²

Temperature: Covers use at ambient temperatures.

3.3 Exposure estimation and reference to its source

3.3. CS1: Environment Contributing Scenario: Solvent-based process (ERC8a)

Release route	Release rate	Release estimation method
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Air	99 %	N/A
Water	1 %	N/A
soil	0 %	N/A

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater sediment	N/A	EASY TRA v4.1	= 0.004497

3.2. CS2: Consumer Contributing Scenario: Consumer (PC9a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, short-term	= 0.0031 mg/kg bw/day	EASY TRA v4.1	= 0.000513

Additional information on exposure estimation:

Dermal model: instant application

3.2. CS3: Consumer Contributing Scenario: Consumer (PC9a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, short-term	= 0.1 mg/kg bw/day	EASY TRA v4.1	= 0.016667
inhalative, systemic, short-term	= 268.3666 mg/m ³	EASY TRA v4.1	= 0.894555

Additional information on exposure estimation:

Dermal model: instant application

Inhalation model: exposure to vapour - evaporation

3.2. CS4: Consumer Contributing Scenario: Consumer (PC9a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, short-term	= 0.72 mg/kg bw/day	EASY TRA v4.1	= 0.12
inhalative, systemic, short-term	= 237.9923 mg/m ³	EASY TRA v4.1	= 0.793308

Additional information on exposure estimation:

Dermal model: constant application rate

Inhalation model: exposure to vapour - evaporation

3.2. CS5: Consumer Contributing Scenario: Consumer (PC9a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, short-term	= 4.1538 mg/kg bw/day	EASY TRA v4.1	= 0.692308

inhalative, systemic, short-term	= 67.715 mg/m ³	EASY TRA v4.1	= 0.225717
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Additional information on exposure estimation:

Dermal model: constant application rate
 Inhalation model: exposure to spray/dust

3.2. CS6: Consumer Contributing Scenario: Consumer (PC9a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, short-term	= 0.7754 mg/kg bw/day	EASY TRA v4.1	= 0.129231
inhalative, systemic, short-term	= 240.316 mg/m ³	EASY TRA v4.1	= 0.801053

Additional information on exposure estimation:

Dermal model: constant application rate
 Inhalation model: exposure to vapour - evaporation

3.2. CS7: Consumer Contributing Scenario: Consumer (PC9a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, short-term	= 0.2429 mg/kg bw/day	EASY TRA v4.1	= 0.040476
inhalative, systemic, short-term	= 273.8832 mg/m ³	EASY TRA v4.1	= 0.912944

Additional information on exposure estimation:

Dermal model: instant application
 Inhalation model: exposure to vapour - evaporation

3.2. CS8: Consumer Contributing Scenario: Consumer (PC9a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, short-term	= 0.6092 mg/kg bw/day	EASY TRA v4.1	= 0.101538
inhalative, systemic, short-term	= 261.7915 mg/m ³	EASY TRA v4.1	= 0.872638

Additional information on exposure estimation:

Dermal model: constant application rate
 Inhalation model: exposure to vapour - evaporation

3.2. CS9: Consumer Contributing Scenario: Consumer (PC9a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, short-term	= 5.8462 mg/kg bw/day	EASY TRA v4.1	= 0.974359

Additional information on exposure estimation:

Dermal model: instant application

3.2. CS10: Consumer Contributing Scenario: Consumer (PC9a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, short-term	= 2.2154 mg/kg bw/day	EASY TRA v4.1	= 0.369231
inhalative, systemic, short-term	= 185.2461 mg/m ³	EASY TRA v4.1	= 0.617487

Additional information on exposure estimation:

Dermal model: constant application rate

Inhalation model: exposure to vapour - evaporation

3.2. CS11: Consumer Contributing Scenario: Consumer (PC9a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
dermal, systemic, short-term	= 0.3323 mg/kg bw/day	EASY TRA v4.1	= 0.055385
inhalative, systemic, short-term	= 280.4306 mg/m ³	EASY TRA v4.1	= 0.934769

Additional information on exposure estimation:

Dermal model: constant application rate

Inhalation model: exposure to vapour - evaporation

3.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.