



Safety Data Sheet 2K Acrylic DTM Matt Base

Safety Data Sheet dated 25/10/2016 version 7.0 dated 10/07/2017

This safety data sheet has been completely updated in compliance to Regulation 2015/830.

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

1.1. Product identifier

Mixture identification:

Trade name: 2K Acrylic DTM Matt

Trade code: ADTM10

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

Recommended use:

One-coat, high building enamel for metal and alloys.

1.3. Details of the supplier of the safety data sheet

Company: Palatine Paints & Chemicals Limited, 55 Smallbrook Lane, Leigh,
Lancashire, WN7 5PZ Tel. +44 (0)1942 884122

Competent person responsible for the safety data sheet: sales@palatinepaints.co.uk

1.4. Emergency telephone number Tel: +44(0) 1942 884122 (08.00 / 17.00) Mon-Fri


UK: NPIS National Poisons Information Centre Tel: +44 0344 892 0111


IRL: Beaumont Hospital - National Poisons Information Centre: Tel: +353 1 8092566


SECTION 2: Hazards identification


2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

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

 Warning, Skin Irrit. 2, Causes skin irritation.

 Warning, Eye Irrit. 2, Causes serious eye irritation.

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

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

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.


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 3.8/3 STOT SE 3 H336

EUH066


>= 3% - < 5% Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified
Index number: 649-356-00-4, CAS: 64742-95-6, EC: 265-199-0

 2.6/3 Flam. Liq. 3 H226

 3.8/3 STOT SE 3 H335


 3.10/1 Asp. Tox. 1 H304

 3.8/3 STOT SE 3 H336


 4.1/C2 Aquatic Chronic 2 H411

EUH066

>= 1% - < 3% 2-methoxy-1-methylethyl acetate
Index number: 607-195-00-7, CAS: 108-65-6, EC: 203-603-9

 2.6/3 Flam. Liq. 3 H226

>= 0.25% - < 0.5% acetone; propan-2-one; propanone
Index number: 606-001-00-8, CAS: 67-64-1, EC: 200-662-2

 2.6/2 Flam. Liq. 2 H225

 3.3/2 Eye Irrit. 2 H319


 3.8/3 STOT SE 3 H336

EUH066


>= 0.1% - < 0.25% reaction mass of
alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethyl
ene) and
alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-
2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Index number: 607-176-00-3, EC: 400-830-7

 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317

 4.1/C2 Aquatic Chronic 2 H411

>= 0.1% - < 0.25% 3-aminopropyltriethoxysilane
Index number: 612-108-00-0, CAS: 919-30-2, EC: 213-048-4

 3.1/4/Oral Acute Tox. 4 H302

 3.2/1B Skin Corr. 1B H314





 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317

235 ppm ethylbenzene

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Index number: 601-023-00-4, CAS: 100-41-4, EC: 202-849-4

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

20 ppm toluene

Index number: 601-021-00-3, CAS: 108-88-3, EC: 203-625-9

-  2.6/2 Flam. Liq. 2 H225
-  3.7/2 Repr. 2 H361d
-  3.10/1 Asp. Tox. 1 H304
-  3.9/2 STOT RE 2 H373
-  3.2/2 Skin Irrit. 2 H315
-  3.8/3 STOT SE 3 H336

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

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

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

Protect uninjured eye.

In case of Ingestion:

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

In case of Inhalation:

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

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

Treatment:

None

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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.
 - Contaminated clothing should be changed before entering eating areas.
 - Do not eat or drink while working.
 - See also section 8 for recommended protective equipment.
- 7.2. Conditions for safe storage, including any incompatibilities
 - Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
 - Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.
 - Keep away from food, drink and feed.
 - Incompatible materials:
None in particular.
 - Instructions as regards storage premises:
Cool and adequately ventilated.
- 7.3. Specific end use(s)
 - None in particular

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

xylene - CAS: 1330-20-7

EU - TWA(8h): 221 mg/m³, 50 ppm - STEL: 442 mg/m³, 100 ppm - Notes: Skin
ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: A4, BEI - URT and eye irr,
CNS impair

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

ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified - CAS:
64742-95-6

TLV TWA - 1760 mg/m³

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

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

acetone; propan-2-one; propanone - CAS: 67-64-1

EU - TWA(8h): 1210 mg/m³, 500 ppm

ACGIH - TWA(8h): 250 ppm - STEL: 500 ppm - Notes: A4, BEI - URT and eye irr,
CNS impair

ethylbenzene - CAS: 100-41-4

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

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

toluene - CAS: 108-88-3

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

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

DNEL Exposure Limit Values

xylene - CAS: 1330-20-7

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

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

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

Frequency: Long Term, systemic effects

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

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

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

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

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

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

Consumer: 1.67 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic
effects

Worker Professional: 275 ppm - Consumer: 33 ppm - Exposure: Human Inhalation -
Frequency: Long Term, systemic effects

Worker Professional: 153.5 mg/kg - Consumer: 54.8 mg/kg - Exposure: Human Dermal
- Frequency: Long Term, systemic effects

acetone; propan-2-one; propanone - CAS: 67-64-1

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Consumer: 62 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 1210 ppm - Consumer: 200 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 2420 ppm - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 186 mg/kg - Consumer: 62 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

reaction mass of

alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and

alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) - Index number: 607-176-00-3

Worker Professional: 0.35 ppm - Consumer: 0.085 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 0.5 mg/kg - Consumer: 0.25 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 0.025 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

3-aminopropyltriethoxysilane - CAS: 919-30-2

Worker Professional: 8.3 mg/kg - Consumer: 5 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Professional: 59 ppm - Consumer: 17.4 ppm - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 8.3 mg/kg - Consumer: 5 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 59 ppm - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 17 ppm - Exposure: Human Inhalation - Frequency: Long Term, local effects

toluene - CAS: 108-88-3

Worker Industry: 384 mg/m³ - Worker Professional: 384 mg/m³ - Consumer: 226 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 192 mg/m³ - Worker Professional: 192 mg/m³ - Consumer: 56.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 8.13 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

xylene - CAS: 1330-20-7

Target: Fresh Water - Value: 0.327 mg/l

Target: Marine water - Value: 0.327 mg/l

Target: Freshwater sediments - Value: 12.46 mg/kg

Target: Marine water - Value: 12.46 mg/kg

Target: Soil (agricultural) - Value: 2.31 mg/kg

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

Target: Soil (agricultural) - Value: 0.09 mg/kg

Target: Fresh Water - Value: 0.18 mg/l

Target: Marine water - Value: 0.018 mg/l

Target: Freshwater sediments - Value: 0.98 mg/kg

Target: Marine water sediments - Value: 0.09 mg/kg

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

Target: Fresh Water - Value: 0.635 mg/l

Target: Freshwater sediments - Value: 3.29 mg/kg

Target: Marine water sediments - Value: 0.329 mg/kg

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Target: Microorganisms in sewage treatments - Value: 100 mg/l
 acetone; propan-2-one; propanone - CAS: 67-64-1
 Target: Fresh Water - Value: 10.6 mg/l
 Target: Marine water - Value: 1.06 mg/l
 Target: Freshwater sediments - Value: 30.4 mg/kg
 Target: Marine water sediments - Value: 3.04 mg/kg
 Target: Soil (agricultural) - Value: 33.3 mg/kg

reaction mass of
 alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(ox
 yethylene) and
 alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzo
 triazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) - Index number:
 607-176-00-3

Target: Fresh Water - Value: 0.0023 mg/l
 Target: Marine water - Value: 0.00023 mg/l
 Target: Freshwater sediments - Value: 3.06 mg/kg
 Target: Marine water sediments - Value: 0.306 mg/kg
 Target: Soil (agricultural) - Value: 2 mg/kg

3-aminopropyltriethoxysilane - CAS: 919-30-2

Target: Fresh Water - Value: 0.33 mg/l
 Target: Marine water - Value: 0.033 mg/l
 Target: Freshwater sediments - Value: 0.26 mg/kg
 Target: Soil (agricultural) - Value: 0.04 mg/kg

toluene - CAS: 108-88-3

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

8.2. Exposure controls

Eye protection:

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

Protection for skin:

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

Protection for hands:

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

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Method: | Notes: |
|------------------------|----------------|---------|--------|
| Appearance and colour: | liquid | -- | -- |
| Odour: | Characteristic | -- | -- |
| Odour threshold: | N.A. | -- | -- |

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| | | | |
|---|--------------------------------|----|----|
| pH: | N.A. | -- | -- |
| Melting point / freezing point: | N.A. | -- | -- |
| Initial boiling point and boiling range: | 137°C | -- | -- |
| Flash point: | 25 °C | -- | -- |
| Evaporation rate: | N.A. | -- | -- |
| Solid/gas flammability: | N.A. | -- | -- |
| Upper/lower flammability or explosive limits: | N.A. | -- | -- |
| Vapour pressure: | N.A. | -- | -- |
| Vapour density: | > 1 | -- | -- |
| Relative density: | 1.270 g/cm ³ - 20°C | -- | -- |
| Solubility in water: | insoluble | -- | -- |
| Solubility in oil: | N.A. | -- | -- |
| Partition coefficient (n-octanol/water): | N.A. | -- | -- |
| Auto-ignition temperature: | > 450°C | -- | -- |
| Decomposition temperature: | N.A. | -- | -- |
| Viscosity: | N.A. | -- | -- |
| Explosive properties: | N.A. | -- | -- |
| Oxidizing properties: | N.A. | -- | -- |

9.2. Other information

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

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the product:

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- a) acute toxicity
Not classified
Based on available data, the classification criteria are not met
- b) skin corrosion/irritation
The product is classified: Skin Irrit. 2 H315
- c) serious eye damage/irritation
The product is classified: Eye Irrit. 2 H319
- 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
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
The product is classified: STOT RE 2 H373
- j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

xylene - CAS: 1330-20-7

a) acute toxicity:

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

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

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

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

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 23.4 mg/l - Duration: 4h - Source: Metodo: OECD 403

Test: LD50 - Route: Oral - Species: Rat = 10760 mg/kg - Source: Metodo: OECD 423

Test: LD50 - Route: Skin - Species: Rabbit > 14000 mg/kg - Source: Metodo: OECD 402

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

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 8530 mg/kg

acetone; propan-2-one; propanone - CAS: 67-64-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5800 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 7400 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 76 mg/l - Duration: 4h

3-aminopropyltriethoxysilane - CAS: 919-30-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1490 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 4076 mg/kg

toluene - CAS: 108-88-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5580 mg/kg - Duration: 24h

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- Test: LD50 - Route: Skin - Species: Rabbit = 12124 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 28.1 mg/l - Duration: 4h
- b) skin corrosion/irritation:
Test: Skin Irritant - Species: Rabbit Positive
- g) reproductive toxicity:
Test: Reproductive Toxicity - Species: Rat 1200 Ppm

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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The product is classified: Aquatic Chronic 3 - H412

xylene - CAS: 1330-20-7

a) Aquatic acute toxicity:

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

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

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

a) Aquatic acute toxicity:

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

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

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

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

a) Aquatic acute toxicity:

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

acetone; propan-2-one; propanone - CAS: 67-64-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 8300 mg/l - Duration h: 96

Endpoint: LC50 - Species: Daphnia = 12700 mg/l - Duration h: 48

reaction mass of

alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and

alfa-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) - Index number: 607-176-00-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 2.8 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 0.78 mg/l

3-aminopropyltriethoxysilane - CAS: 919-30-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 934 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 331 mg/l - Duration h: 48

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

toluene - CAS: 108-88-3

a) Aquatic acute toxicity:

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

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

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

b) Aquatic chronic toxicity:

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

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

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

12.2. Persistence and degradability

None

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

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

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

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

toluene - CAS: 108-88-3

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

12.3. Bioaccumulative potential

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

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

acetone; propan-2-one; propanone - CAS: 67-64-1

Bioaccumulation: N.A. Test: BCF - Bioconcentration factor 3 - Duration: N.A. - Notes: N.A.

toluene - CAS: 108-88-3

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

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information



14.1. UN number

ADR-UN Number: 1263

IATA-UN Number: 1263

IMDG-UN Number: 1263

14.2. UN proper shipping name

ADR-Shipping Name: PAINT

IATA-Shipping Name: PAINT

IMDG-Shipping Name: PAINT

14.3. Transport hazard class(es)

ADR-Class: 3

ADR - Hazard identification number: 30

IATA-Class: 3

IATA-Label: 3

IMDG-Class: 3

Sea (IMO): Classe 3, P.G. III - EmS F-E, S-E

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- 14.4. Packing group
ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III
- 14.5. Environmental hazards
ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No
- 14.6. Special precautions for user
- ADR-Subsidiary risks: -
ADR-S.P.: 163 367 640E 650
ADR-Transport category (Tunnel restriction code): 3 (D/E)
IATA-Passenger Aircraft: 355
IATA-Subsidiary risks: -
IATA-Cargo Aircraft: 366
IATA-S.P.: A3 A72 A192
IATA-ERG: 3L
- IMDG-EmS: F-E , S-E
IMDG-Subsidiary risks: -
- IMDG-Stowage and handling: Category A
IMDG-Segregation: -
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
- Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
Restrictions related to the product:
Restriction 3
Restriction 40
- Restrictions related to the substances contained:
Restriction 28
Restriction 29
Restriction 30
Restriction 48
- Volatile Organic compounds - VOCs = 29.09 %
Volatile Organic compounds - VOCs = 369.17 g/l
Volatile CMR substances = 0.02 %
Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

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Organic Carbon - C = 0.23

Where applicable, refer to the following regulatory provisions :

- 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:

None

SECTION 16: Other information

Full text of phrases referred to in Section 3:

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H315 Causes skin irritation.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- H411 Toxic to aquatic life with long lasting effects.
- H225 Highly flammable liquid and vapour.
- H317 May cause an allergic skin reaction.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H361d Suspected of damaging the unborn child.

| Hazard class and hazard category | Code | Description |
|----------------------------------|---------------|--|
| Flam. Liq. 2 | 2.6/2 | Flammable liquid, Category 2 |
| Flam. Liq. 3 | 2.6/3 | Flammable liquid, Category 3 |
| Acute Tox. 4 | 3.1/4/Dermal | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 | 3.1/4/Inhal | Acute toxicity (inhalation), Category 4 |
| Acute Tox. 4 | 3.1/4/Oral | Acute toxicity (oral), Category 4 |
| Asp. Tox. 1 | 3.10/1 | Aspiration hazard, Category 1 |
| 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. 1,1A,1B | 3.4.2/1-1A-1B | Skin Sensitisation, Category 1,1A,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 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 |

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

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|--------------------------|
| Flam. Liq. 3, H226 | On basis of test data |
| Skin Irrit. 2, H315 | Calculation method |
| Eye Irrit. 2, H319 | Calculation method |
| STOT RE 2, H373 | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |

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

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

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

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

This MSDS cancels and replaces any preceding release.

| | |
|-------------|--|
| ADR: | European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| CAS: | Chemical Abstracts Service (division of the American Chemical Society). |
| CLP: | Classification, Labeling, Packaging. |
| DNEL: | Derived No Effect Level. |
| EINECS: | European Inventory of Existing Commercial Chemical Substances. |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany. |
| GHS: | Globally Harmonized System of Classification and Labeling of Chemicals. |
| IATA: | International Air Transport Association. |
| IATA-DGR: | Dangerous Goods Regulation by the "International Air Transport Association" (IATA). |
| ICAO: | International Civil Aviation Organization. |
| ICAO-TI: | Technical Instructions by the "International Civil Aviation Organization" (ICAO). |
| IMDG: | International Maritime Code for Dangerous Goods. |
| INCI: | International Nomenclature of Cosmetic Ingredients. |
| KSt: | Explosion coefficient. |
| LC50: | Lethal concentration, for 50 percent of test population. |
| LD50: | Lethal dose, for 50 percent of test population. |
| N.A.: | N.A. |
| 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. |

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