

Safety Data Sheet
RDTM10

Safety Data Sheet dated 14/07/2017 version 7.0 dated 14/7/2017

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

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

1.1. Product identifier

Mixture identification:

Trade name: INDURA - ALKYD DTM - MATT

Trade code: RDTM10

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

Recommended use:

As primer and final coat for chassis.

1.3. Details of the supplier of the safety data sheet

Company:

Capella Solutions Group. Second Avenue, Chatham, Kent ME4 5AU

Tel. +44 (0)1634 823907 - Fax +44 (0)1634 823909

Competent person responsible for the safety data sheet:sales@capellasolutionsgroup.com

1.4. Emergency telephone number Tel: +44(0) 1634 823900 (08.00 / 17.00)

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)

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

Acute Tox. 4, H332 Harmful if inhaled.

Skin Irrit. 2, H315 Causes skin irritation.

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. Aquatic Chronic 2, H411 Toxic 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.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

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

Safety Data Sheet

RDTM

smoking.

P273 Avoid release to the environment.

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

P312 Call a POISON CENTER / doctor if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

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

Special Provisions:

EUH208 Contains 2-butanone oxime; ethyl methyl ketoxime. May produce an allergic reaction.

Contains

xylene

Hydrocarbons, C9, aromatics

Reaction mass of ethylbenzene and xylene

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

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

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

>= 30% - < 40% xylene

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.

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.

>= 5% - < 7% Hydrocarbons, C9, aromatics

REACH No.: 01-2119455851-35-XXXX, 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.

>= 3% - < 5% trizinc bis(orthophosphate)

REACH No.: 01-2119485044-40-XXXX, Index number: 030-011-00-6, CAS: 7779-90-0, EC: 231-944-3

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.

>= 1% - < 3% Reaction mass of ethylbenzene and xylene

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

Flam. Liq. 3 H226 Flammable liquid and vapour.

Acute Tox. 4 H332 Harmful if inhaled.

Acute Tox. 4 H312 Harmful in contact with skin.

Safety Data Sheet

RDTM

Skin Irrit. 2 H315 Causes skin irritation.

>= 0.5% - < 1% Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

REACH No.: 01-2119457273-39-XXXX, EC: 918-481-9

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

EUH066 Repeated exposure may cause skin dryness or cracking.

>= 0.25% - < 0.5% calcium bis(2-ethylhexanoate)

CAS: 136-51-6, EC: 205-249-0

Eye Dam. 1 H318 Causes serious eye damage.

Repr. 2 H361d Suspected of damaging the unborn child.

>= 0.25% - < 0.5% 2-butanone oxime; ethyl methyl ketoxime

REACH No.: 01-2119539477-28-XXXX, Index number: 616-014-00-0, CAS: 96-29-7, EC: 202-496-6

Carc. 2 H351 Suspected of causing cancer.

Eye Dam. 1 H318 Causes serious eye damage.

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

Acute Tox. 4 H312 Harmful in contact with skin.

>= 0.1% - < 0.25% 2-ethylhexanoic acid, zirconium salt

REACH No.: 01-2119979088-21-XXXX, CAS: 22464-99-9, EC: 245-018-1

Repr. 2 H361d Suspected of damaging the unborn child.

749 ppm 1-methoxy-2-propanol; monopropylene glycol methyl ether

REACH No.: 01-2119457435-35-XXXX, Index number: 603-064-00-3, CAS: 107-98-2, EC: 203-539-1

Flam. Liq. 3 H226 Flammable liquid and vapour.

STOT SE 3 H336 May cause drowsiness or dizziness.

441 ppm 2-butoxyethanol; ethylene glycol monobutyl ether

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

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Irrit. 2 H315 Causes skin irritation.

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

403 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.

309 ppm cobalt bis(2-ethylhexanoate)

REACH No.: 01-2119524678-29-XXXX, CAS: 136-52-7, EC: 205-250-6

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1,1A,1B 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 3 H412 Harmful to aquatic life with long lasting effects.

12 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.

Acute Tox. 4 H332 Harmful if inhaled.

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

Safety Data Sheet

RDTM

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

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 induce vomiting.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

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

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

None

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

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

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire: use a foam fire extinguisher to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

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

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Safety Data Sheet

RDTM

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

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

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

Hydrocarbons, C9, aromatics

ACGIH - TWA(8h): 100 mg/m³, 19 ppm

Reaction mass of ethylbenzene and xylene

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

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

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

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

EU - TWA(8h): 1200 mg/m³

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

EU - TWA(8h): 375 mg/m³, 100 ppm - STEL: 568 mg/m³, 150 ppm - Notes: Skin

ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: A4 - Eye and URT irr

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

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

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

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

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

cobalt bis(2-ethylhexanoate) - CAS: 136-52-7

Safety Data Sheet

RDTM

TLV TWA - 0,85 ppm - 5 mg/m³
ethylbenzene - CAS: 100-41-4
EU - TWA(8h): 442 mg/m³, 100 ppm - STEL: 884 mg/m³, 200 ppm - Notes: Skin
ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - URT irr, kidney dam (nephropathy),
cochlear impair
DNEL Exposure Limit Values
xylene - CAS: 1330-20-7
Worker Industry: 289 mg/m³ - Worker Professional: 289 mg/m³ - Consumer: 174 mg/m³
- Exposure: Human Inhalation - Frequency: Short Term, local effects
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
Hydrocarbons, C9, aromatics
Consumer: 11 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic
effects
Worker Industry: 150 mg/m³ - Worker Professional: 150 mg/m³ - Consumer: 32 mg/m³ -
Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 25 mg/kg bw/d - Worker Professional: 25 mg/kg bw/d - Consumer: 11
mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
trizinc bis(orthophosphate) - CAS: 7779-90-0
Worker Industry: 5 mg/m³ - Worker Professional: 5 mg/m³ - Consumer: 2.5 mg/m³ -
Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 83 mg/kg bw/d - Worker Professional: 83 mg/kg bw/d - Consumer: 83
mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 0.83 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term (repeated)
Reaction mass of ethylbenzene and xylene
Consumer: 260 ppm - Exposure: Human Inhalation - Frequency: Short Term (acute)
Consumer: 65.3 ppm - Exposure: Human Inhalation - Frequency: Long Term (repeated)
2-butanone oxime; ethyl methyl ketoxime - CAS: 96-29-7
Worker Industry: 2.5 mg/kg bw/d - Worker Professional: 2.5 mg/kg bw/d - Consumer: 1.5
mg/kg bw/d - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Worker Industry: 1.3 mg/kg bw/d - Worker Professional: 1.3 mg/kg bw/d - Consumer: 0.78
mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 9 mg/m³ - Worker Professional: 9 mg/m³ - Consumer: 2.7 mg/m³ -
Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 3.33 mg/m³ - Worker Professional: 3.33 mg/m³ - Consumer: 2 mg/m³ -
Exposure: Human Inhalation - Frequency: Long Term, local effects
1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
Consumer: 33 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic
effects
Worker Industry: 369 mg/m³ - Worker Professional: 369 mg/m³ - Consumer: 43.9 mg/m³
- Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 183 mg/kg bw/d - Worker Professional: 183 mg/kg bw/d - Consumer: 78
mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 553.5 mg/m³ - Worker Professional: 553.5 mg/m³ - Exposure: Human
Inhalation - Frequency: Short Term, local effects
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
Worker Professional: 89 mg/kg - Consumer: 44.5 mg/kg - Exposure: Human Dermal -
Frequency: Short Term, systemic effects
Worker Professional: 135 ppm - Consumer: 426 ppm - Exposure: Human Inhalation -
Frequency: Short Term, systemic effects
Worker Professional: 50 ppm - Consumer: 123 ppm - Exposure: Human Inhalation -
Frequency: Short Term, local effects
Worker Professional: 75 mg/kg - Consumer: 38 mg/kg - Exposure: Human Dermal -
Frequency: Long Term, systemic effects

Safety Data Sheet

RDTM

Worker Professional: 20 ppm - Consumer: 49 ppm - Exposure: Human Inhalation - 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 - 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

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

Reaction mass of ethylbenzene and xylene

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

2-butanone oxime; ethyl methyl ketoxime - CAS: 96-29-7

Target: Fresh Water - Value: 0.256 mg/l - Notes: Assessment factor: 10
Target: Microorganisms in sewage treatments - Value: 1.77 mg/l

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Target: Fresh Water - Value: 10 mg/l
Target: Freshwater sediments - Value: 52.3 mg/kg
Target: Marine water sediments - Value: 5.2 mg/kg
Target: Microorganisms in sewage treatments - Value: 100 mg/l
Target: Soil (agricultural) - Value: 4.59 mg/kg

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

Target: Fresh Water - Value: 8.8 mg/l
Target: Marine water - Value: 0.88 mg/l
Target: Freshwater sediments - Value: 34.6 mg/kg
Target: Marine water sediments - Value: 3.46 mg/kg
Target: Soil (agricultural) - Value: 2.8 mg/kg

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

Target: Fresh Water - Value: 0.635 mg/l
Target: Freshwater sediments - Value: 3.29 mg/kg
Target: Marine water sediments - Value: 0.329 mg/kg
Target: Microorganisms in sewage treatments - Value: 100 mg/l

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:

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

Use adequate protective respiratory equipment.

Thermal Hazards:

None

Environmental exposure controls:

Safety Data Sheet

RDTM

None
Appropriate engineering controls:
None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Appearance and colour:	liquid	--	--
Odour:	Characteristic	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	137°C	--	--
Flash point:	25 °C	EN ISO 3679	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	> 1	--	--
Relative density:	1.030 g/cm ³ - 20°C	ISO 2811	--
Solubility in water:	insoluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	> 400°C	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	3000-3500 mPa.s A3-V20	ISO 2555	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

Safety Data Sheet

RDTM

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:

RDTM10 ALKYD DTM - MATT

a) acute toxicity

The product is classified: Acute Tox. 4 H332

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

The product is classified: STOT SE 3 H335

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

Safety Data Sheet

RDTM

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

Hydrocarbons, C9, aromatics

a) acute toxicity:

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

Test: LD50 - Route: Oral - Species: Rat = 3592 mg/kg

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

trizinc bis(orthophosphate) - CAS: 7779-90-0

a) acute toxicity:

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

Test: LC50 - Route: Inhalation - Species: Rat > 5.7 mg/l - Duration: 4h

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

a) acute toxicity:

Test: LD50 - Route: Oral > 5000 mg/kg

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

2-butanone oxime; ethyl methyl ketoxime - CAS: 96-29-7

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 2400 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 1000 mg/kg

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

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4016 mg/kg

Test: LD50 - Route: Skin - Species: Rat = 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 54.6 mg/l - Duration: 4h

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rat Negative

d) respiratory or skin sensitisation:

Test: Respiratory Sensitization No

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

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1746 mg/kg

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

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

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

a) acute toxicity:

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

SECTION 12: Ecological information

12.1. Toxicity

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

RDTM10 ALKYD DTM - MATT

The product is classified: Aquatic Chronic 2 - H411

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

Hydrocarbons, C9, aromatics

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l

Endpoint: EC50 - Species: Daphnia > 100 mg/l

Safety Data Sheet

RDTM

- Endpoint: EC50 - Species: Algae > 100 mg/l
- b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish > 0.1 mg/l
Endpoint: NOEC - Species: Daphnia > 0.1 mg/l
- c) Bacteria toxicity:
Endpoint: EC50 > 100 mg/l
- 2-butanone oxime; ethyl methyl ketoxime - CAS: 96-29-7
- a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 201 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 11.8 mg/l - Duration h: 72
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96
Endpoint: NOEC - Species: Algae = 2.56 mg/l - Duration h: 72
- 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 100 mg/l
Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 168
Endpoint: EC50 - Species: Daphnia > 21100 mg/l - Duration h: 48 - Notes: 21100 - 25900 mg/l
Endpoint: EC50 - Species: Fish = 20800 mg/l - Duration h: 96
- 2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish = 1474 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 1550 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 1840 mg/l - Duration h: 72
- b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish > 100 mg/l - Notes: 21 d
Endpoint: NOEC - Species: Daphnia = 100 mg/l - Notes: 21 d
- 2-methoxy-1-methylethyl acetate - CAS: 108-65-6
- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96
Endpoint: EC50 - Species: Algae > 100 mg/l
- 12.2. Persistence and degradability
None
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
Biodegradability: Readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Biodegradability: Readily biodegradable - Test: N.A. - Duration h: N.A. - %: N.A. - Notes: N.A.
- 12.3. Bioaccumulative potential
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
Bioaccumulation: N.A. Test: Kow - Partition coefficient 0.81 - Duration h: N.A. - Notes: n-ottanolo/acqua
2-methoxy-1-methylethyl acetate - CAS: 108-65-6
Bioaccumulation: Not bioaccumulative - Test: N.A. N.A. - Duration h: N.A. - Notes: N.A.
- 12.4. Mobility in soil
N.A.
- 12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects
None

SECTION 13: Disposal considerations

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

Safety Data Sheet

RDTMT

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
- 14.4. Packing group
ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III
- 14.5. Environmental hazards
ADR-Environmental Pollutant: Yes
IMDG-Marine pollutant: Marine Pollutant
Most important toxic component: trizinc bis(orthophosphate)
- 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
N.A.

SECTION 15: Regulatory information

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

Safety Data Sheet

RDTM

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 30

Volatile Organic compounds - VOCs = 48.51 %

Volatile Organic compounds - VOCs = 499.75 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.32 %

Organic Carbon - C = 0.43

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, E2

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

xylene

Hydrocarbons, C9, aromatics

trizinc bis(orthophosphate)

1-methoxy-2-propanol; monopropylene glycol methyl ether

2-butoxyethanol; ethylene glycol monobutyl ether

2-methoxy-1-methylethyl acetate

SECTION 16: Other information

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B

Safety Data Sheet

RDTM

Carc. 2	3.6/2	Carcinogenicity, Category 2
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic 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

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
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 2, H411	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.

Safety Data Sheet

RDTM

EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
N.A.:	Not defined/ Not available
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.