



SAFETY DATA SHEET

515/Q113 - HIGH PERFORMANCE MARINE PRIMER - GREY BASE

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name	515/Q113 - HIGH PERFORMANCE MARINE PRIMER - GREY BASE
Product number	515/Q113/224 - GREY BASE
UFI	UFI: YRUP-62C1-J001-XEWN

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

Identified uses	Paint. BASE FOR TWO COMPONENT PRIMER
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1.3. Details of the supplier of the safety data sheet

Supplier	TEAL & MACKRILL LIMITED	TEAL AND MACKRILL EU B.V.
	Lockwood Street HULL UK HU2 OHN +441482320194 (T) +441482219266 (F) info@teamac.co.uk	Zandvoortstaat 69 1976 BN IJMUIDEN THE NETHERLANDS +441482320194 (T) +441482219266 (F) info@teamac.co.uk
Contact person	Technical Department -, 08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri, as above	

1.4. Emergency telephone number

Emergency telephone	+44 (0) 1482 320194 Teamac (08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri)
SDS No.	20976

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Flam. Liq. 3 - H226
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT RE 2 - H373
Environmental hazards	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

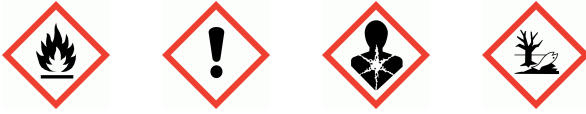
Classification (67/548/EEC or 1999/45/EC) -

Human health	The product contains a small amount of sensitising substance. May cause skin sensitisation or allergic reactions in sensitive individuals.
Physicochemical	When handled correctly, undamaged units represent no danger.

2.2. Label elements

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Hazard pictograms



Signal word

Warning

Hazard statements

H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
 P101 If medical advice is needed, have product container or label at hand.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 Avoid breathing vapour/ spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P501 Dispose of contents/ container in accordance with national regulations.

Supplemental label information

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

Contains

XYLENE ISOMER MIXTURE, EPOXY RESIN (Number average MW <= 700), Epoxy Resin (average mol. weight 700-1000), N,N'-ethane-1,2-diybis(12-hydroxyoctadecan-1-amide)

Supplementary precautionary statements

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
 P403+P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TRIZINC BIS(ORTHOPHOSPHATE)	10-30%
CAS number: 7779-90-0	EC number: 231-944-3
	REACH registration number: 01-2119485044-40-0000
M factor (Acute) = 1	M factor (Chronic) = 1
Classification	Classification (67/548/EEC or 1999/45/EC)
Aquatic Acute 1 - H400	N;R50/53
Aquatic Chronic 1 - H410	

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Barium Sulphate 10-30%		
CAS number: 7727-43-7	EC number: 231-784-4	REACH registration number: 01-2119491274-35-0001
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -	
XYLENE ISOMER MIXTURE 10-30%		
CAS number: 1330-20-7	EC number: 215-535-7	REACH registration number: 01-2119488216-32-0000
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 3 - H412		
EPOXY RESIN (Number average MW <= 700) 5-10%		
CAS number: 25068-38-6	EC number: 500-033-5	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	Classification (67/548/EEC or 1999/45/EC) R43 Xi;R36/38 N;R51/53	
Titanium Dioxide 5-10%		
CAS number: 13463-67-7	EC number: 236-675-5	REACH registration number: 01-2119489379-17-xxxx
Classification Carc. 2 - H351	Classification (67/548/EEC or 1999/45/EC) -	
Epoxy Resin (average mol. weight 700-1000) 5-10%		
CAS number: 25036-25-3	EC number: 607-500-3	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317		

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1-METHOXY-2-PROPANOL		1-5%
CAS number: 107-98-2	EC number: 203-539-1	REACH registration number: 01-2119457435-35-0000
Classification Flam. Liq. 3 - H226 STOT SE 3 - H336	Classification (67/548/EEC or 1999/45/EC) R10 R67	
2-METHYLPROPAN-1-OL		1-5%
CAS number: 78-83-1	EC number: 201-148-0	REACH registration number: 01-2119484609-23-XXXX
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336		
Zinc Oxide		<1%
CAS number: 1314-13-2	EC number: 215-222-5	REACH registration number: 01-2119463881-32
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) N;R50/53.	
BUTANOL-norm		<1%
CAS number: 71-36-3	EC number: 200-751-6	REACH registration number: 01-2119484630-38-0000
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336	Classification (67/548/EEC or 1999/45/EC) R10 Xn;R22 Xi;R37/38,R41 R67	
N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide)		<1%
CAS number: 123-26-2	EC number: 204-613-6	
Classification Skin Sens. 1B - H317 Aquatic Chronic 3 - H412		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments

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 into particles with an aerodynamic diameter of less than or equal to 10µm.

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Ingestion	Give a few small glasses of water or milk to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention if any discomfort continues.
Skin contact	Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if irritation persists after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

General information	Get medical attention promptly if symptoms occur after washing.
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4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire. Extinguish with the following media: Water spray, fog or mist. Foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Toxic gases or vapours.
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5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours. Containers close to fire should be removed or cooled with water.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet.
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6.2. Environmental precautions

Environmental precautions	Avoid discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid inhalation of vapours. Avoid spilling. Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. The Manual Handling Operations Regulations may apply to the handling of containers of this product. For products sold by weight refer to the guide net weight indicated on the container. Allowance will have to be made for the immediate packaging to give an approximate gross weight.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly closed original container in a dry, cool and well-ventilated place. Store in closed original container at temperatures between 5°C and 25°C. Protect from freezing and direct sunlight. Keep containers upright.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Usage description Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

TRIZINC BIS(ORTHOPHOSPHATE)

Long-term exposure limit (8-hour TWA): 10 mg/m³

Barium Sulphate

Long-term exposure limit (8-hour TWA): 10 mg/m³ inhalable dust

Long-term exposure limit (8-hour TWA): 4 mg/m³ respirable dust

XYLENE ISOMER MIXTURE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³

Sk

Titanium Dioxide

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

1-METHOXY-2-PROPANOL

Long-term exposure limit (8-hour TWA): WEL 100 ppm 375 mg/m³

Short-term exposure limit (15-minute): WEL 150 ppm 560 mg/m³

Sk

2-METHYLPROPAN-1-OL

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Long-term exposure limit (8-hour TWA): WEL 50 ppm 154 mg/m³

Short-term exposure limit (15-minute): WEL 75 ppm 231 mg/m³

BUTANOL-norm

Short-term exposure limit (15-minute): WEL 50 ppm 154 mg/m³

Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

TRIZINC BIS(ORTHOPHOSPHATE) (CAS: 7779-90-0)

DNEL

- Inhalation; : 1.0 soluble Zn mg/m³

Consumer - Oral; Long term systemic effects: 0.83 mg/kg/day

- Inhalation; : 5.0 insoluble Zn mg/m³

Consumer - Inhalation; Long term systemic effects: 2.5 mg/m³

Professional - Inhalation; Long term systemic effects: 5 mg/m³

Consumer - Dermal; Long term systemic effects: 83 mg/kg/day

Professional - Dermal; Long term systemic effects: 83 mg/kg/day

PNEC

- Fresh water; 0.02 Zn mg/l

- marine water; 0.006 Zn mg/l

- Sediment (Freshwater); 117.8 mg/kg

- Sediment (Marinewater); 56.5 Zn mg/kg

- Soil; 35.6 Zn mg/kg

- STP; 0.1 Zn mg/l

XYLENE ISOMER MIXTURE (CAS: 1330-20-7)

DNEL

Consumer - Inhalation; Short term : 260 mg/m³

Industry - Dermal; Long term systemic effects: 3182 mg/kg/day

Industry - Inhalation; Short term : 442 mg/m³

Consumer - Dermal; Long term systemic effects: 1872 mg/kg/day

Consumer - Oral; Long term systemic effects: 12.5 mg/kg/day

Consumer - Inhalation; Long term systemic effects: 65.3 mg/m³

Industry - Inhalation; Long term systemic effects: 221 mg/m³

PNEC

- Fresh water; 0.327 mg/l

- marine water; 0.327 mg/l

- Intermittent release; 0.327 mg/l

- STP; 6.58 mg/l

- Sediment (Freshwater); 12.46 mg/kg

- Sediment (Marinewater); 12.46 mg/kg

- Soil; 2.31 mg/kg

Titanium Dioxide (CAS: 13463-67-7)

DNEL

Industry - Inhalation; Long term local effects: 10 mg/m³

Consumer - Oral; Long term systemic effects: 700 mg/kg/day

PNEC

- Fresh water; 0.184 mg/l

- marine water; 0.0184 mg/l

- Sediment (Freshwater); >=1000 mg/kg

- Sediment (Marinewater); >=100 mg/kg

- Soil; 100 mg/kg

- STP; 100 mg/kg

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Epoxy Resin (average mol. weight 700-1000) (CAS: 25036-25-3)

DNEL

- Workers - Dermal; Short term : 8.33 mg/kg/day
- Workers - Inhalation; Long term : 12.25 mg/m³
- Workers - Dermal; Long term : 8.33 mg/kg/day
- Workers - Inhalation; Short term : 12.25 mg/m³
- Consumer - Oral; Long term : 0.75 mg/kg/day
- Consumer - Oral; Short term : 0.75 mg/kg/day
- Consumer - Dermal; Long term : 3.571 mg/kg/day

PNEC

- Fresh water; Long term 0.006 mg/l
- Sediment (Freshwater); Long term 0.996 mg/l
- STP; Long term 10 mg/l
- Soil; Long term 0.196 mg/l
- marine water; 0.0006 mg/l
- Sediment (Marinewater); 0.0996 mg/l
- Water; 0.0018 mg/l

1-METHOXY-2-PROPANOL (CAS: 107-98-2)

DNEL

- Workers - Inhalation; Short term local effects: 553.5 mg/m³
- Workers - Dermal; Long term systemic effects: 183 mg/kg/day
- Workers - Inhalation; Long term systemic effects: 369 mg/m³
- Consumer - Dermal; Long term systemic effects: 78 mg/kg/day
- Consumer - Inhalation; Long term systemic effects: 43.9 mg/m³
- Consumer - Oral; Long term systemic effects: 33 mg/kg/day

PNEC

- Fresh water; 10 mg/l
- marine water; 1 mg/l
- Intermittent release; 100 mg/l
- STP; 100 mg/l
- Sediment (Freshwater); 52.3 mg/kg
- Sediment (Marinewater); 5.2 mg/kg
- Soil; 4.59 mg/kg

2-METHYLPROPAN-1-OL (CAS: 78-83-1)

DNEL

- Workers - Inhalation; Long term local effects: 310 mg/m³
- Consumer - Inhalation; Short term local effects: 55 mg/m³

BUTANOL-norm (CAS: 71-36-3)

DNEL

- Workers - Inhalation; Long term local effects: 310 mg/m³
- Consumer - Oral; Long term systemic effects: 3.125 mg/kg/day
- Consumer - Inhalation; Long term local effects: 55 mg/m³

PNEC

- Fresh water; 0.082 mg/l
- marine water; 0.0082 mg/l
- STP; 2476 mg/l
- Sediment (Freshwater); 0.178 mg/kg
- Sediment (Marinewater); 0.0178 mg/kg
- Soil; 0.015 mg/kg

8.2. Exposure controls

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Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Personal protection

Unprotected persons should be kept away from treated areas.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

Hand protection

To protect hands from chemicals, gloves should comply with European Standards EN388 and 374. As a general principle, exposure should be managed by means other than the provision of protective gloves. Manufacturers' performance data suggest that the optimum glove for use should be: Viton rubber (fluoro rubber). Thickness: > 0.2 mm Permeation breakthrough time according to EN374 - class: (1-6) e.g. minimum 480 mins. or Polyvinyl alcohol (PVA). Thickness: 0.2 - 0.3 mm Permeation breakthrough time according to EN374 - class: (1-6) e.g. minimum 240 mins. or Polyethylene. Thickness: > 0.062 mm Permeation breakthrough time according to EN374 - class: (1-6) e.g. minimum 480 mins. Caution: The performance of gloves under actual working conditions can be significantly affected by many factors and the information provided according to EN374 may not accord with what is achieved in practice. We recommend that expert professional advice is sought that takes into account of the work processes and working environment applicable for each task where gloves are to be worn.

Other skin and body protection

Wear appropriate clothing to prevent reasonably probable skin contact.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

Respiratory protection

Respiratory protection may be required if excessive airborne contamination occurs. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P3).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid.
Colour	Grey.
Odour	Aromatic hydrocarbons.
Odour threshold	Not determined.
pH	Technically not feasible.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	~ 28°C Closed cup.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Other flammability	Not determined.
Vapour pressure	Not determined.

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Vapour density	heavier than air
Relative density	~ 1.75 @ 20°C
Solubility(ies)	Insoluble in water
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	1.1 - 1.3 (Cone & Plate) P @ 25°C
Explosive properties	Not determined.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not determined.

9.2. Other information

Volatile organic compound EU: (cat A/j): 500 g/l 2010. This product contains a maximum VOC content of 499 g/l.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Will not occur

10.4. Conditions to avoid

Conditions to avoid Not known.

10.5. Incompatible materials

Materials to avoid Strong acids. Alkalis - inorganic. Amines. Mercaptans (thiols).

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No data recorded.

Acute toxicity - dermal

ATE dermal (mg/kg) 6,958.72

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 69.59

General information No specific health hazards known.

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Inhalation	May cause respiratory system irritation.
Ingestion	Harmful if swallowed. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
Skin contact	Irritating to skin. May cause sensitisation by skin contact.
Eye contact	Irritating to eyes.
Acute and chronic health hazards	May cause sensitisation by skin contact. Delayed appearance of the complaints and development of hypersensitivity (difficulty breathing, coughing, asthma) are possible.
Route of exposure	Inhalation Skin absorption. Ingestion. Skin and/or eye contact.
Medical considerations	Skin disorders and allergies.

Toxicological information on ingredients.

TRIZINC BIS(ORTHOPHOSPHATE)

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,100.0

Species Rat

ATE oral (mg/kg) 5,100.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not irritating

Skin corrosion/irritation

Animal data Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

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General information No specific health hazards known.

XYLENE ISOMER MIXTURE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 3,523.0

Species Rat

ATE oral (mg/kg) 3,523.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 12,126.0

Species Rabbit

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 27.124

Species Rat

ATE inhalation (vapours mg/l) 11.0

Serious eye damage/irritation

Serious eye damage/irritation Severely irritating to skin. Irritation of eyes is assumed. No testing is needed.

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Skin sensitisation

Skin sensitisation Not sensitising.

Carcinogenicity

Carcinogenicity There is no evidence that the product can cause cancer.

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility This substance has no evidence of toxicity to reproduction.

Aspiration hazard

Aspiration hazard Kinematic viscosity <= 20.5 mm²/s.

Inhalation Harmful by inhalation.

Ingestion Pneumonia may be the result if vomited material containing solvents reaches the lungs.

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Skin contact	Harmful in contact with skin.
Target organs	Central nervous system Liver

SECTION 12: Ecological information

Ecotoxicity There are no data on the ecotoxicity of this product.

Ecological information on ingredients.

XYLENE ISOMER MIXTURE

Ecotoxicity The product is not expected to be hazardous to the environment.

12.1. Toxicity

Ecological information on ingredients.

TRIZINC BIS(ORTHOPHOSPHATE)

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: Oncorhynchus mykiss 0.14 - 0.26 Zn²⁺ mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: Daphnia magna 0.04 - 0.86 Zn²⁺ mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 0.136 - 0.15 Zn²⁺ mg/l, Selenastrum capricornutum
IC₅₀, 72 hours: Desmodesmus subspicatus <0.3 mg/l, Algae

Chronic aquatic toxicity

NOEC 0.01 < NOEC ≤ 0.1

Degradability Non-rapidly degradable

M factor (Chronic) 1

XYLENE ISOMER MIXTURE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 2.6 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 3.62 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: 3.2 mg/l, Algae

12.2. Persistence and degradability

Persistence and degradability No data available.

Ecological information on ingredients.

XYLENE ISOMER MIXTURE

Persistence and degradability The product is readily biodegradable.

12.3. Bioaccumulative potential

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Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

TRIZINC BIS(ORTHOPHOSPHATE)

Bioaccumulative potential The product is not bioaccumulating.

XYLENE ISOMER MIXTURE

Partition coefficient log Kow: 3.12 - 3.2

12.4. Mobility in soil

Mobility The product is non-volatile.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

TRIZINC BIS(ORTHOPHOSPHATE)

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

XYLENE ISOMER MIXTURE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not determined.

Ecological information on ingredients.

TRIZINC BIS(ORTHOPHOSPHATE)

Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Avoid the spillage or runoff entering drains, sewers or watercourses. Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. When handling waste, the safety precautions applying to handling of the product should be considered. DO NOT reuse containers containing residual product without commercial cleaning

Waste class When this material, in its liquid state, as supplied, becomes a waste, it is categorised as a hazardous waste, with code 08 01 11* (EPOXY BASED LIQUID WASTE). Part-used containers, not drained and/or rigorously scraped out and containing residues of the supplied material, are categorised as hazardous waste, with code 08 01 11* (EPOXY BASED LIQUID WASTE). Ideally this component should be mixed with the appropriate hardener and allowed to react fully to produce a solid waste. Neutralised empty packages, are categorised as non-hazardous waste, with code 15 01 02(plastic packaging) or 15 01 04 (metal packaging)

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SECTION 14: Transport information

General This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG.

14.1. UN number

UN No. (ADR/RID) 1263

UN No. (IMDG) 1263

UN No. (ICAO) 1263

14.2. UN proper shipping name

Proper shipping name (ADR/RID) PAINT OR PAINT RELATED MATERIAL

Proper shipping name (IMDG) PAINT OR PAINT RELATED MATERIAL

Proper shipping name (ICAO) PAINT OR PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR/RID class 3

IMDG class 3

ICAO class/division 3

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-E, S-E

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

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EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
 Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
 Commission Regulation (EU) No 2015/830 of 28 May 2015.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 GHS: Globally Harmonized System.
 IATA: International Air Transport Association.
 ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
 IMDG: International Maritime Dangerous Goods.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 vPvB: Very Persistent and Very Bioaccumulative.
 EC₅₀: 50% of maximal Effective Concentration.

Classification abbreviations and acronyms

Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)
 Asp. Tox. = Aspiration hazard
 Eye Dam. = Serious eye damage
 Eye Irrit. = Eye irritation
 Resp. Sens. = Respiratory sensitisation
 Skin Corr. = Skin corrosion
 Skin Irrit. = Skin irritation
 Skin Sens. = Skin sensitisation
 STOT RE = Specific target organ toxicity-repeated exposure
 STOT SE = Specific target organ toxicity-single exposure

Revision comments

Issued in new format for Reach compliance in accordance with EC 1272/2008 Issued in accordance with Annex II to REACH, as amended by Commission Regulation (EU) No. 2015/830 Classification of Titanium Dioxide updated in line with the 14th ATP to CLP.

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Hazard statements in full	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. H373 May cause damage to organs (Respiratory system, lungs) through prolonged or repeated exposure if inhaled. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Signature	Initials _____

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.