



SAFETY DATA SHEET PRIMAL IW 530 EMULSION

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

1.1. Product identifier

Product name PRIMAL IW 530 EMULSION

Product number 65576

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

Identified uses Coating. Textiles Binder Adhesive.

1.3. Details of the supplier of the safety data sheet

Supplier Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
BD3 7AY
+44 1274 267300
+44 1274 267306
SDS.EMEA@univarsolutions.com

1.4. Emergency telephone number

Emergency telephone SGS - +32 (0)3 575 55 55 (24h)

Sds No. 65576

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements

P261 Avoid breathing vapour/ spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P501 Dispose of contents/ container in accordance with local regulations.

Contains

TETRAAMMINEZINC(2+) CARBONATE, 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE
 [EC NO. 247-500-7] & 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1)

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TETRAAMMINEZINC(2+) CARBONATE

>= 1.0 - < 2.5 %

CAS number: 38714-47-5

EC number: 254-099-2

M factor (Acute) = 1

M factor (Chronic) = 1

Acute Toxicity Estimate (oral):> 2000 mg/kg

Classification

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

Skin Sens. 1 - H317

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

AMMONIA ...%

>= 0.1 - < 0.25 %

CAS number: 1336-21-6

EC number: 215-647-6

REACH registration number: 01-2119488876-14-XXXX

M factor (Acute) = 1

STOT SE 3 - H335>= 5 %

Classification

Skin Corr. 1B - H314

Eye Dam. 1 - H318

STOT SE 3 - H335

Aquatic Acute 1 - H400

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5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7] & 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1)

>= 0.0002 - < 0.0015 %

CAS number: 55965-84-9

EC number: 611-341-5

REACH registration number: 01-2120764691-48-XXXX

M factor (Acute) = 100

M factor (Chronic) = 100

ATE: Acute Toxicity Estimate.Oral64mg/kg

ATE: Acute Toxicity Estimate.Dermal92.4mg/kg

ATE: Acute Toxicity Estimate.Inhalation0.171mg/l4hourDust/Mist

Skin Corr. 1C - H314

>= 0.6%

Skin Irrit. 2 - H315

0.06 - < 0.6 %

Eye Irrit. 2 - H319

0.06 - < 0.6 %

Skin Sens. 1A - H317

>= 0.0015 %

Eye Dam. 1 - H318

>= 0.6 %

Classification

Acute Tox. 3 - H301

Acute Tox. 2 - H310

Acute Tox. 2 - H330

Skin Corr. 1C - H314

Eye Dam. 1 - H318

Skin Sens. 1A - H317

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

The full text for all hazard statements is displayed in Section 16.

Composition comments

The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aid personnel should wear appropriate protective equipment during any rescue. Wear protective clothing as described in Section 8 of this safety data sheet.

Inhalation

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.

Skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention if any discomfort continues.

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 if any discomfort continues.

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

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Skin contact May cause an allergic skin reaction. May be slightly irritating to skin. Redness.

Eye contact May cause temporary eye irritation.

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

Notes for the doctor Treat symptomatically. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

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 When heated and in case of fire, toxic vapours/gases may be formed. This material will not burn until the water has evaporated.

Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Carbon.

5.3. Advice for firefighters

Protective actions during firefighting No action shall be taken without appropriate training or involving any personal risk. Evacuate area.

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 Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Keep unnecessary and unprotected personnel away from the spillage. Approach the spillage from upwind. Take care as floors and other surfaces may become slippery.

6.2. Environmental precautions

Environmental precautions Harmful to aquatic life with long lasting effects. Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if safe to do so. Absorb spillage with non-combustible, absorbent material. 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.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Usage precautions Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Wash skin thoroughly after handling. Container must be kept tightly closed when not in use.

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. Avoid excessive heat for prolonged periods of time. Avoid freezing. Stir well before use. Store at temperatures between 1°C and 49°C.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

AMMONIA ...%

Long-term exposure limit (8-hour TWA): WEL 25 ppm 18 mg/m³

Short-term exposure limit (15-minute): WEL 35 ppm 25 mg/m³

WEL = Workplace Exposure Limit.

Ingredient comments Observe any occupational exposure limits for the product or ingredients.

AMMONIA ...% (CAS: 1336-21-6)

DNEL	Industry - Inhalation; Short term systemic effects: 47.6 mg/m ³
	Industry - Inhalation; Short term local effects: 36 mg/m ³
	Industry - Dermal; Long term systemic effects: 6.8 mg/kg/day
	Industry - Inhalation; Long term local effects: 14 mg/m ³
	Consumer - Inhalation; Short term local effects: 7.2 mg/m ³
	Consumer - Dermal; Short term systemic effects: 68 mg/m ³
	Consumer - Oral; Long term systemic effects: 68 mg/kg/day
	Consumer - Inhalation; Long term systemic effects: 23.8 mg/kg/day
PNEC	- Fresh water; 0.0011 mg/l
	- marine water; 0.0011 mg/l
	- Intermittent release; 0.089 mg/l

5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7] & 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1) (CAS: 55965-84-9)

DNEL	Workers - Inhalation; Long term local effects: 0.02 mg/m ³
	Workers - Inhalation; Short term local effects: 0.04 mg/m ³
	Consumer - Inhalation; Long term local effects: 0.02 mg/m ³
	Consumer - Inhalation; Short term local effects: 0.04 mg/m ³
	Consumer - Oral; Long term systemic effects: 0.09 mg/kg/day
	Consumer - Oral; Short term systemic effects: 0.11 mg/kg/day

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PNEC

Fresh water; 3.39 µg/l
 marine water; 3.39 µg/l
 STP; 0.23 mg/l
 Soil; 0.01 mg/kg/day
 Intermittent release; 3.39 µg/l
 Sediment (Freshwater); 0.027 mg/kg/day
 Sediment (Marinewater); 0.027 mg/kg/day

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

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. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 4 hours. Polyethylene. Butyl rubber. Thickness: Do not use the following: Viton rubber (fluoro rubber). Polyvinyl alcohol (PVA). To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash facilities and emergency shower must be available when handling this product.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. If ventilation is inadequate, suitable respiratory protection must be worn. Organic vapour filter. Combination filter, type A2/P2. EN 136/140/141/145/143/149

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Milky. White.
Odour	Ammonia.
Odour threshold	No information available.
pH	pH (concentrated solution): 7.7 - 8.7
Melting point	No information available.

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Pour Point	No information available.
Freezing Point	Not determined.
Initial boiling point and range	No information available.
Flash point	The product is non-combustible.
Evaporation rate	< 1 (butyl acetate = 1)
Evaporation factor	No information available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Other flammability	No information available.
Vapour pressure	Not determined.
Vapour density	< 1 (Air = 1) Water
Relative density	No information available.
Bulk density	No information available.
Solubility(ies)	Immiscible with water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	< 100 cP
Explosive properties	Not determined.
Explosive under the influence of a flame	No information available.
Oxidising properties	Not determined.

9.2. Other information

Refractive index	No information available.
Particle size	Not applicable.
Molecular weight	Not determined.
Volatility	59.5 - 60.5 % Water
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Avoid freezing.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) This product has low toxicity. Not determined. Information given is applicable to the major ingredient. LD₅₀ > 5000 mg/kg, Oral, Estimated value.

Acute toxicity - dermal

Notes (dermal LD₅₀) Not determined. Information given is applicable to the major ingredient. LD₅₀ > 2000 mg/kg, Dermal, Estimated value.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not determined.

Skin corrosion/irritation

Skin corrosion/irritation Information given is applicable to the major ingredient. May be slightly irritating to skin. Redness.

Serious eye damage/irritation

Serious eye damage/irritation Information given is applicable to the major ingredient. May be slightly irritating to eyes.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

Genotoxicity - in vivo No information available.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Reproductive toxicity - development No information available.

Specific target organ toxicity - single exposure

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

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Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Toxicokinetics

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Inhalation

Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion

This product has low toxicity. May cause discomfort if swallowed.

Skin contact

May cause an allergic skin reaction. May be slightly irritating to skin. Redness.

Eye contact

May cause temporary eye irritation.

Toxicological information on ingredients.

TETRAAMMINEZINC(2+) CARBONATE

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 2000 mg/kg, Oral, Rat, Female

Acute toxicity - dermal

Notes (dermal LD₅₀) Not determined.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not determined.

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

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STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Toxicokinetics

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Inhalation

Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion

May cause discomfort if swallowed.

Skin contact

Causes skin irritation. May cause an allergic skin reaction.

Eye contact

Causes serious eye irritation.

AMMONIA ... %

Acute toxicity - oral

Notes (oral LD₅₀) Not determined.

Acute toxicity - dermal

Notes (dermal LD₅₀) Not determined.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not determined.

Skin corrosion/irritation

Skin corrosion/irritation Causes severe burns.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated. May cause chemical eye burns.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation No information available.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Carcinogenicity

Carcinogenicity No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Reproductive toxicity - fertility Fertility - NOAEL 408 mg/kg/day, ,

Reproductive toxicity - development Developmental toxicity: - NOAEL: 100 mg/kg/day, ,

Specific target organ toxicity - single exposure

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STOT - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Toxicokinetics The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Inhalation May cause respiratory irritation.

Ingestion May cause discomfort if swallowed.

Skin contact Causes severe burns.

Eye contact Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated. May cause chemical eye burns.

5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7] & 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1)

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 64.0

Species Rat

Notes (oral LD₅₀) LD₅₀ 64 mg/kg, Oral, Rat Toxic if swallowed.

ATE oral (mg/kg) 64.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 92.4

Species Rabbit

Notes (dermal LD₅₀) LD₅₀ 92.4 mg/kg, Dermal, Rabbit Fatal in contact with skin.

ATE dermal (mg/kg) 92.4

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 0.171

Species Rat

Notes (inhalation LC₅₀) LC₅₀ 0.171 mg/l, 4 hours, Dust/Mist Rat Fatal if inhaled.

ATE inhalation (dusts/mists mg/l) 0.171

Skin corrosion/irritation

Skin corrosion/irritation Causes severe burns. Rabbit OECD 404

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Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated. May cause chemical eye burns. Rabbit

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction. Guinea pig maximization test (GPMT) - Guinea pig: Sensitising. OECD 406

Germ cell mutagenicity

Genotoxicity - in vitro Inconclusive data.

Genotoxicity - in vivo Chromosome aberration: Negative. Rat
Chromosome aberration: Negative. Mouse
Micronucleus assay: Negative. Rat

Carcinogenicity

Carcinogenicity No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Reproductive toxicity - fertility Fertility - NOAEL 16.3 - 24.7 mg/kg, Oral, Rat P Fertility - NOAEL (90d) 16.3 - 24.7 mg/kg, Oral, Rat F1 Fertility, Two-generation study - NOAEL (P) 2.8 - 4.4, (F1) 22.7 - 28, (F2) 35.7 - 39.1 mg/kg, Oral, Rat

Reproductive toxicity - development Based on available data the classification criteria are not met. Developmental toxicity: - NOAEL: 15 mg/kg, Oral, Rat Maternal toxicity: - NOAEL: <= 3.95 mg/kg, Oral, Rat

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. NOAEL (90 d) 16.3 - 24.7 mg/kg, Oral, Rat NOAEL (91 d) <=0.104 mg/kg, Dermal, Rat NOAEL (91 d) 0.00034 mg/l, Inhalation, Rat

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Toxicokinetics

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Inhalation Fatal if inhaled.

Ingestion Toxic if swallowed.

Skin contact Fatal in contact with skin. Causes severe burns. May cause an allergic skin reaction.

Eye contact Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated. May cause chemical eye burns.

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SECTION 12: Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.**TETRAAMMINEZINC(2+) CARBONATE**

Ecotoxicity Very toxic to aquatic life with long lasting effects.

AMMONIA ...%

Ecotoxicity Very toxic to aquatic life.

5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7] & 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1)

Ecotoxicity Very toxic to aquatic life with long lasting effects.

12.1. Toxicity

Toxicity Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.**TETRAAMMINEZINC(2+) CARBONATE**

Toxicity Very toxic to aquatic life with long lasting effects.

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish This information is based on test data from similar products
LC₅₀, 96 hours: > 0.1 - 1 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates This information is based on test data from similar products
EC₅₀, 48 hours: 1.2 mg/l, Freshwater invertebrates

Acute toxicity - aquatic plants This information is based on test data from similar products
EC₅₀, 72 hours: 0.403 mg/l, Pseudokirchneriella subcapitata
This information is based on test data from similar products
NOEC, 72 hours: 0.056 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

M factor (Chronic) 1

Chronic toxicity - fish early life stage This information is based on test data from similar products
NOEC, 21 days: > 0.01 - 0.1 mg/l, Fish

Chronic toxicity - aquatic invertebrates This information is based on test data from similar products
NOEC, 21 days: 0.243 mg/l, Daphnia magna

AMMONIA ...%

Toxicity Very toxic to aquatic life.

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

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M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 0.87 mg/l, <i>Lepomis macrochirus</i> (Bluegill) LC ₅₀ , 96 hours: 1.2 mg/l, <i>Pimephales promelas</i> (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.66 mg/l, <i>Daphnia magna</i>

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Toxicity	Very toxic to aquatic life with long lasting effects.
<u>Acute aquatic toxicity</u>	
LE(C) ₅₀	0.001 < L(E)C ₅₀ ≤ 0.01
M factor (Acute)	100
Acute toxicity - fish	EC ₅₀ , 96 hours: 0.22 mg/l, <i>Oncorhynchus mykiss</i> (Rainbow trout) OECD 203
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.1 mg/l, <i>Daphnia magna</i> OECD 202
Acute toxicity - aquatic plants	EC ₅₀ , 48 hours: 0.0052 mg/l, <i>Skeletonema costatum</i> (marine diatom) OECD 201 NOEC, 48 hour: 0.00049 mg/l, <i>Skeletonema costatum</i> (marine diatom) OECD 201
Acute toxicity - microorganisms	EC ₅₀ , 3 hour: 7.92 mg/l, Activated sludge OECD 209
<u>Chronic aquatic toxicity</u>	
M factor (Chronic)	100
Chronic toxicity - fish early life stage	NOEC, 28 days: 0.098 mg/l, <i>Oncorhynchus mykiss</i> (Rainbow trout) OCED 215
Chronic toxicity - aquatic invertebrates	NOEC, 21 day: 0.004 mg/l, <i>Daphnia magna</i> OECD 202

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

TETRAAMMINEZINC(2+) CARBONATE

Persistence and degradability	The product is not expected to be biodegradable.
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AMMONIA ...%

Persistence and degradability	Not readily biodegradable.
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PRIMAL IW 530 EMULSION**5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7] & 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1)**

Persistence and degradability	The product is readily biodegradable.
Biodegradation	- >60%: 28 days OECD 301D

12.3. Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	Not determined.

Ecological information on ingredients.**TETRAAMMINEZINC(2+) CARBONATE**

Bioaccumulative potential	Bioaccumulation is unlikely.
Partition coefficient	log Pow: -0.46

AMMONIA ... %

Bioaccumulative potential	Bioaccumulation is unlikely.
Partition coefficient	No information available.

5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7] & 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1)

Bioaccumulative potential	BCF: 3.6,
Partition coefficient	log Pow: -0.71 - 0.75 OECD 107

12.4. Mobility in soil

Mobility	Immiscible with water.
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Ecological information on ingredients.**TETRAAMMINEZINC(2+) CARBONATE**

Mobility	No information available.
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AMMONIA ... %

Mobility	Soluble in water.
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5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7] & 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1)

Mobility	No information available.
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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.
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Ecological information on ingredients.

PRIMAL IW 530 EMULSION

TETRAAMMINEZINC(2+) CARBONATE

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

AMMONIA ...%

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

5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7] & 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1)

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 The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Ecological information on ingredients.

TETRAAMMINEZINC(2+) CARBONATE

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

AMMONIA ...%

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE [EC NO. 247-500-7] & 2-METHYL-2H-ISOTHIAZOL-3-ONE [EC NO. 220-239-6] (3:1)

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

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14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

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) 2020/878 of 18 June 2020

Restrictions (Annex XVII Regulation 1907/2006)

CAUTION - Chemical may be subject to REACH RESTRICTIONS - see Annex XVII. This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES. Entry number: 3

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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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.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 Kow: Octanol-water partition coefficient.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 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.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 vPvB: Very Persistent and Very Bioaccumulative.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 cATpE: Converted Acute Toxicity Point Estimate.
 BCF: Bioconcentration Factor.
 BOD: Biochemical Oxygen Demand.
 EC₅₀: 50% of maximal Effective Concentration.
 LOAEC: Lowest Observed Adverse Effect Concentration.
 LOAEL: Lowest Observed Adverse Effect Level.
 NOAEC: No Observed Adverse Effect Concentration.
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 LOEC: Lowest Observed Effect Concentration.
 DMEL: Derived Minimal Effect Level.
 EL50: Exposure Limit 50
 hPa: Hectopascal
 LL50: Lethal Loading fifty
 OECD: Organisation for Economic Co-operation and Development
 POW: Octanol-water partition coefficient
 SCBA: self-contained breathing apparatus
 STP: Sewage Treatment Plant
 VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

Classification procedures according to Regulation (EC) 1272/2008

Skin Sens. 1 - H317: Calculation method. Aquatic Chronic 3 - H412: Calculation method.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

08/05/2023

PRIMAL IW 530 EMULSION

Version number	1.000
SDS number	65576
SDS status	Approved.
Hazard statements in full	H301 Toxic if swallowed. H310 Fatal in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H330 Fatal if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Signature	Lisa Bland

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