PN Base Coat

PBC

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

Version: 01 Date of compilation: Revision:

18.01.2024 -

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

1.1. Product identifier

Product Name: Item number:

PN Base Coat

PBC

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

Uses advised against Manufacture of food products.

1.3. Details of the supplier of the safety data sheet Responsible person: PLANET NAILS

8 Conara Rd, Kunda Park, QLD Australia Phone: 07 52110031

Email: sales@planetnails.com.au

Web page: [www.planetnails.com.au](http://kotelabs.com/)

1.4. Emergency telephone number

EU:112

Emergency telephone for other regions to be filled out by local business

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture According to regulation (EC) No Skin Irrit. 2, H315



1272/2008: Skin Sens. 1A, H317 Eye Irrit. 2, H319 STOT SE 3, H335

Aquatic Chronic 3, H412 Important adverse Causes skin irritation.

physicochemical, human health May cause an allergic skin reaction and environmental effects: Causes serious eye irritation.

May cause respiratory irritation.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

According to regulation (EC) No 1272/2008:

Warning

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

**Page: 1 of 15**

PN Base Coat

PBC

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Contain: Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate; Benzyl methacrylate; Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate; Ethylene phosphite; Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate.

P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.

P233 Keep container tightly closed.

P261 Avoid breathing mist/vapours/ spray.

P264 Wash hands/ affected body parts thoroughly after handling. P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/ attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container to in accordance with local/ regional/ national/ international regulation.

2.3. Other hazards

Product does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH (Regulation (EC) No 1907/2006).

Toxicological information/Ecological information: Based on available data the mixture does not contain ingredients 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 a concentration of 0.1% or more.

See section 11 for more detailed information on health effects and symptoms.

SECTION 3: Composition/information on ingredients

INDEX No. CAS No. Type

3.1. Substances

3.2. Mixtures

Ingredient name (INCI)

BIS-HEA POLY(HEXAMETHYLENE/ METHYLPENTYLENE CARBONATE)/ IPDI COPOLYMER

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

[ISOBORNYL METHACRYLATE] Benzyl methacrylate

[BENZYL METHACRYLATE]

Not relevant.

Mixture of acrylic monomers and other ingredients.

EINECS/ EC Conc. Classification Regulation No. (%) (EC) 1272/2008 (CLP)

N/A N/A N/A 35-40 Not classified

N/A 7534-94-3 231-403-1 30-35 Skin Irrit. 2, H315 [1] Eye Irrit. 2, H319

STOT SE 3, H335 Aquatic Chronic 3, H412

N/A 2495-37-6 219-674-4 10-15 Skin Irrit. 2, H315 [1] Skin Sens. 1B, H317

Eye Irrit. 2, H319 STOT SE 3, H335

Specific concentration

**Page: 2 of 15**

PN Base Coat

PBC

limits:

STOT SE 3: C ≥ 10 %

Exo-1,7,7- 607-756-00-6 5888-33-5 227-561-6 5-10 Skin Sens. 1A, H317 [1] trimethylbicyclo[2.2.1]hept-2-yl

acrylate

[ISOBORNYL ACRYLATE]

Ethylene phosphite N/A 1003-11-8 621-992-7 1-5 Acute Tox. 4, H302 [1] [ETHYLENE PHOSPHITE] Skin Irrit. 2, H315

Eye Irrit. 2, H319 STOT SE 3, H335

Ethyl phenyl(2,4,6- N/A 84434-11-7 282-810-6 1-3 Skin Sens. 1B, H317 [1] trimethylbenzoyl)phosphinate Aquatic Chronic 2, H411 [ETHYL TRIMETHYLBENZOYL

PHENYLPHOSPHINATE]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

See section 16 for the full text of the R and H phrases declared above. Occupational exposure limits, if available, are listed in section 8.

[1] Substance classified with a health or environmental hazard [2] Substance with a workplace exposure limit

[3] PBT-substance [4] vPvB-substance

[5] SEVESO SUBSTANCE

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice: Remove contaminated clothing.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison centre or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Skin contact: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. In the event of any complaints or symptoms, avoid further exposure. Get medical attention if symptoms persist.

Eye contact: Flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if symptoms persist.

Ingestion: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

4.2. Most important symptoms and effects, both acute and delayed Eye contact: Irritating to the eyes.

Symptoms might be as follows: Conjunctivitis, lacrimation, redness, pain or irritation, reversible cornea damage and swelling and watering of the eyes.

Inhalation: May cause nose and throat irritation.

Symptoms might be as follows: Irritation, coughing, shortness of breath, dizziness, headache or nausea, fatigue, unconsciousness.

Skin contact: Irritating to the skin, might cause skins sensitization.

Symptoms might be as follows: Redness, inflammation, rash, urticaria, pain or

**Page: 3 of 15**

PN Base Coat

PBC

Ingestion:

irritation, blistering and dermatitis.

No significant effects or critical hazards known.

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

Specific treatments: Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

See section 11 for more detailed information on health effects and symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media Suitable extinguishing media:

Unsuitable extinguishing media:

Alcohol-resistant foam, dry chemical powder, carbon dioxide. Do not use full power water jet.

5.2. Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials:

carbon dioxide carbon monoxide

Other unidentified organic and inorganic substances.

This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterways, sewer or drain.

5.3. Advice for firefighters

If water is used to cool closed containers to prevent pressure build-up, fog nozzles are preferred. Full protective equipment, including self-contained breathing apparatus is needed to protect fire-fighters from exposure to coating’s hazardous ingredients and hazardous decomposition products.

During emergency conditions, overexposure to decomposition products may cause a health hazard; symptoms may not be immediately apparent. Obtain medical attention.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Follow fire-fighting measures. Avoid release to the environment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section “Exposure controls/personal protection” on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2. Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3. Methods and material for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb **Page: 4 of 15**

PN Base Coat

PBC

6.4. Reference to other sections

with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Protective measures:

Advice on general occupational hygiene:

Put on appropriate personal protective equipment (see Section “Exposure controls/ personal protection”). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour. Avoid release to the environment.

Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Good industrial hygiene practices should be observed. Provide sufficient air exchange and/or exhaust in work rooms. Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Take off all contaminated clothing immediately.

Use of dispensing equipment is recommended to minimise the risk of skin or eye contact.

See also Section 8 for additional information on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Store in well-ventilated area. Keep containers (solvent resistant) closed when not in use. Store away from ignition sources. Store in a clean, dry area. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Empty container may retain product residues (vapour or liquid).

7.3. Specific end use(s)

Industrial sector specific Not available. solutions:

SECTION 8: Exposure controls/personal protection

8.1. Control parameters Occupational exposure limits:

Limit values are laid down throughout the EU, but each Member State establishes its own national OELs, often going beyond EU legislation. OELs are set by competent national authorities and other relevant institutions.

**Page: 5 of 15**

PN Base Coat

PBC

EU (IOELV):



Not available.

United Kingdom (EH40): Not available.

Latvia (AER, reg.325/2011): Not available.

Recommended monitoring procedures:

8.2. Exposure controls Appropriate engineering Controls:

Individual protection measures: Hygiene measures:

Respiratory protection

Eye/face protection:

Skin protection:

Environmental exposure controls:

Germany (TRGS-900): Not available.

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Ensure good ventilation/extraction. Reduce inhalation hazards in minimising the occupational exposure. Comply with the Occupational Exposure Limits.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area.

Filter type: A

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Chemical-resistant protective gloves (EN 374).

Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors. If signs of wear and tear are noticed, then the gloves should be replaced.

Wear suitable protective clothing and shoes.

According to available technology.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties a) Physical state Viscous liquid.

b) Colour Not available. c) Odour Characteristic. d) Melting point/freezing point Not available. e) Initial boiling point and boiling Not available.

**Page: 6 of 15**

PN Base Coat

PBC

range

f) Flammability

g) Lower and upper explosion limit h) Flash point

i) Auto-ignition temperature

j) Decomposition temperature k) pH

l) Kinematic viscosity m) Solubility (-ies)

n) Partition coefficient n-octanol/water (log value) o) Vapour pressure

p) Density and/or relative density q) Relative vapour density

r) Particle characteristics

9.2. Other information Impurity

Explosive properties Oxidising properties

Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available. Not available.

Not available. Not available. Not available. Not available.

Not available Not available. Not available

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

No hazardous reactions if stored and handled as prescribed/indicated.

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Product conations up to 50% substance that can polymerize with heat evolution in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

10.4. Conditions to avoid

10.5. Incompatible materials

Avoid high temperatures and sources of ignition. Ultraviolet light. If the permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution. Un-clean conditions during storage.

Peroxides, amines, sulfur compounds, heavy metal ions, alkalis, reducing agents and oxidizing agents. Free radical initiators.

10.6. Hazardous decomposition products

Fumes produced when heated to decomposition may include: Toxic carbon monoxide, carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

Data on the product or its components:

Mixture/ Ingredient name Result Species Dose Gabriela base coat ATE Oral - 10 000 mg/kg bw

GRB-A25

Exposure -

**Page: 7 of 15**

PN Base Coat

PBC

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

Max

[ISOBORNYL METHACRYLATE] Benzyl methacrylate

[BENZYL METHACRYLATE]

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

[ISOBORNYL ACRYLATE] Ethylene phosphite [ETHYLENE PHOSPHITE] Ethyl phenyl(2,4,6-

trimethylbenzoyl)phosphinate [ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE]

LD50 Oral

LD50 Dermal LD50 Oral

LD50 Dermal

LD50 Oral

LD50 Dermal ATE Oral

LD50 Oral

LD50 Dermal

Rat 3 160 mg/kg bw -

Rabbit > 3 000 mg/kg bw -

Rat 4 450 mg/kg bw -

Rat > 2 000 mg/kg bw -

Rat 5 750 mg/kg bw -

Rabbit > 3 000 mg/kg bw -

- 500 mg/kg bw -

Rat > 5 000 mg/kg bw -

Rat > 2 000 mg/kg bw -

According to classification method described in CLP regulation, this product has Conclusion/Summary: ATE (oral) value of 10 000 mg per kg of body weight - the product is NOT

classified as harmful or toxic if swallowed.

Serious eye damage/irritation

Data on the product or its components:

Mixture/ Ingredient name Effect Exo-1,7,7- Slightly irritating.

trimethylbicyclo[2.2.1]hept-2-yl methacrylate

[ISOBORNYL METHACRYLATE]

Benzyl methacrylate Causes eye irritation.

[BENZYL METHACRYLATE] Guideline: OECD Guideline 405 (Acute Eye Irritation / Corrosion) Species: Rabbit

Amount applied (volume): 0.1 ml Concentration: 100%

Duration of treatment / exposure: Single application Observation period (in vivo): 7 days

Irritation parameter Time point Score score Notes

Cornea opacity score 24/48/72 h 0 4 No indication of irritation Iris score 24/48/72 h 0 2 No indication of irritation Conjunctivae score 24/48/72 h 0-0.667 3 Fully reversible within: 3

days

Chemosis score 24/48/72 h 0-0.333 4 Fully reversible within: 2 days

Ethylene phosphite Irritating. [ETHYLENE PHOSPHITE]

Conclusion/Summary:

According to classification method described in CLP regulation, this product is classified as irritating to the eyes (Eye Irrit. 2, H319).

Skin corrosion/irritation

Data on the product or its components:

**Page: 8 of 15**

PN Base Coat

PBC

Mixture/ Ingredient name

paramete

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

[ISOBORNYL METHACRYLATE] Benzyl methacrylate

[BENZYL METHACRYLATE]

Ethylene phosphite [ETHYLENE PHOSPHITE]

Effect Irritating.

Slightly irritating.

Guideline: US FHSA Federal regulation: 16 CFR 1500.41 Species: Rabbit.

Amount / concentration applied: 0.5 ml Duration of treatment / exposure: 24 hours Observation period (in vivo): 72 hours

Irritationr Time point Score Max score Erythema 24/48/72 h 0-1 4

score

Edema score 24/48/72 h 0-1 4

Irritating.

Reversibility

Fully reversible within: 72 hours

Fully reversible within: 72 hours

Conclusion/Summary:

According to classification method described in CLP regulation, this product is classified as irritating to the skin (Skin Irrit. 2, H315).

Respiratory or skin sensitisation

Data on the product or its components:

Mixture/ Ingredient name Effect

Benzyl methacrylate Category 1B (indication of skin sensitising potential). [BENZYL METHACRYLATE] Species: mouse.

SI: 4.28 (25%); 6.92 (50%); 6.57 (100%)

EC3 is estimated to be below a concentration of 25% (w/v).

Guideline: OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay). Type of study: mouse local lymph node assay (LLNA).

Exo-1,7,7- Category 1A (skin sensitising). trimethylbicyclo[2.2.1]hept-2-yl Species: Mouse

acrylate SI: 4.07 (5%); 14.07 (10%); 22.84 (25%)

[ISOBORNYL ACRYLATE] Guideline: OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) Sensitising.

Ethyl phenyl(2,4,6- Species: mouse. trimethylbenzoyl) phosphinate SI: 1.5 (10%); 5 (25%); 6.7 (50%)

[ETHYL (2,4,6-TRIMETHYLBENZOYL) EC3: 16.4 %

PHENYLPHOSPHINATE] Guideline: OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay). Type of study: mouse local lymph node assay (LLNA).

Conclusion/Summary:

According to classification method described in CLP regulation, this product is classified as sensitising to the skin (Skin Sens. 1A, H317).

Germ cell mutagenicity

Data on the product or its components:

No data on adverse effects on humans or animals are available.

Conclusion/Summary: Based on available data, classification criteria not met.

**Page: 9 of 15**

PN Base Coat

PBC

Carcinogenicity

Data on the product or its components:

No data on adverse effects on humans or animals are available.

Conclusion/Summary: Based on available data, classification criteria not met.

Reproductive toxicity

Data on the product or its components:

No data on adverse effects on humans or animals are available.

Conclusion/Summary: Based on available data, classification criteria not met.

Specific target organ toxicity - Single exposure Data on the product or its components:

Mixture/ Ingredient name Effect

Exo-1,7,7- Hazard category: Specific target organ toxicity - Single Exposure, Category 3 trimethylbicyclo[2.2.1]hept-2-yl Hazard statement: May cause respiratory irritation.

methacrylate Affected organs: respiratory tract. [ISOBORNYL METHACRYLATE] Route of exposure: inhalation.

Benzyl methacrylate Hazard category: Specific target organ toxicity - Single Exposure, Category 3 [BENZYL METHACRYLATE] Hazard statement: May cause respiratory irritation.

Affected organs: respiratory tract. Route of exposure: inhalation.

Ethylene phosphite Hazard category: Specific target organ toxicity - Single Exposure, Category 3 [ETHYLENE PHOSPHITE] Hazard statement: May cause respiratory irritation.

Affected organs: respiratory tract Route of exposure: inhalation

Conclusion/Summary: According to classification method described in CLP regulation, this product may cause respiratory irritation (STOT SE 3, H335).

Specific target organ toxicity - Repeated exposure Data on the product or its components:

No data on adverse effects on humans or animals are available.

Conclusion/Summary: Based on available data, classification criteria not met.

Aspiration hazard

Data on the product or its components:

No data on adverse effects on humans or animals are available.

Conclusion/Summary: Based on available data, classification criteria not met.

Potential acute health effects

**Page: 10 of 15**

PN Base Coat

PBC

Eye contact:

Inhalation:

Skin contact:

Ingestion:

May cause nose and throat irritation. May cause respiratory irritation, headache or nausea.

Causes skin sensitisation and skin irritation.

Causes serious eye irritation.

No significant effects or critical hazards known.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Conjunctivitis, lacrimation, redness, pain or irritation, reversible cornea damage and swelling and watering of the eyes.

Inhalation:

Skin contact:

Ingestion:

Irritation, coughing, shortness of breath, dizziness, headache or nausea, fatigue, unconsciousness.

Redness, inflammation, rash, urticaria, pain or irritation, blistering and dermatitis.

No specific symptoms known.

Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure:

Potential immediate effects: Not available. Potential delayed effects: Not available.

Long term exposure:

Potential immediate effects: Not available. Potential delayed effects: Not available.

11.2. Information on other hazards Endocrine disrupting properties

Based on available data the mixture does not contain ingredients 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 a concentration of 0.1% or more.

Other information

No additional information is available.

SECTION 12: Ecological information

type

12.1. Toxicity Aquatic toxicity

Data on the product or its components:

Mixture/ Ingredient name Species

Fish - Danio rerio Crustaceans - Daphnia

Exo-1,7,7- magna trimethylbicyclo[2.2.1]hept-2-yl Crustaceans - Daphnia

methacrylate magna [ISOBORNYL METHACRYLATE] Algea -

Pseudokirchneriella subcapitata

Ethyl phenyl(2,4,6- Fish - Danio rerio trimethylbenzoyl) phosphinate Crustaceans - Daphnia

[ETHYL (2,4,6-TRIMETHYLBENZOYL) magna

Water media Exposure

freshwater 96 h freshwater 48 h

freshwater 21 d

freshwater 72 h

freshwater 96 h freshwater 48 h

Dose Effect conc. Notes

LC50 1.79 mg/L EC50 > 2.57 mg/L

NOEC 0.233 mg/L

EC50 2.28 mg/L

LC50 1.89 mg/L EC50 2.26 mg/L

**Page: 11 of 15**

PN Base Coat

PBC

PHENYLPHOSPHINATE]

Algae - Desmodesmus subspicatus

Microorganisms -activated sludge, domestic

freshwater 72 h

freshwater 72 h freshwater 180 min

EC50 1.01 mg/L Growth rate

EC50 0.239 mg/L Biomass EC50 > 1 000 mg/L

Conclusion/Summary: According to classification method described in CLP regulation, this product is classified as harmful to aquatic life with long lasting effects (Aquatic Chronic 3, H412).

12.2. Persistence and degradability Data on the product or its components:

Mixture/ Ingredient name

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

[ISOBORNYL METHACRYLATE] Ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate [ETHYL (2,4,6-TRIMETHYLBENZOYL) PHENYLPHOSPHINATE]

CAS no. 7534-94-3

84434-11-7

Degradability Readily biodegradable. Degradation (CO2 evolution), 28 d: 70%

Not readily biodegradable. Degradation (O2 consumption), 28 d: < 10 %

Test method/ Guideline OECD Guideline 310 (Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test))

OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

12.3. Bioaccumulative potential Mixture/ Ingredient name

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

[ISOBORNYL METHACRYLATE] Ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate [ETHYL (2,4,6-TRIMETHYLBENZOYL) PHENYLPHOSPHINATE]

12.4. Mobility in soil

Mixture/ Ingredient name

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

[ISOBORNYL METHACRYLATE] Ethyl phenyl(2,4,6-trimethylbenzoyl) phosphinate [ETHYL (2,4,6-TRIMETHYLBENZOYL) PHENYLPHOSPHINATE]

Effect BCF: 37 dimensionless

The substance has a low potential for bioaccumulation based on log Kow <=3.

Effect Mean adsorption coefficient log Koc of 3.7.

log Koc: 3.37 dimensionless (@ 26 °C) Koc: 2 344.2 (@ 20 °C)

Guideline: OECD Guideline 121 (Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC)).

Media: soil.

12.5. Results of PBT and vPvB assessment

Regarding all available data on biotic and abiotic degradation, bioaccumulation and toxicity it can be stated that the substance does not fulfil the PBT criteria (not PBT) and not the vPvB criteria (not vPvB).

12.6. Endocrine disrupting properties Data on the product or its components:

No data on adverse effects aquatic organisms are available.

**Page: 12 of 15**

PN Base Coat

PBC

Conclusion/Summary:

12.7. Other adverse effects

Based on available data the mixture does not contain ingredients 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 a concentration of 0.1% or more.

No other significant effects or critical hazards known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods Product:

Methods of disposal:

Hazardous waste:

European waste catalogue (EWC):

Packaging:

Methods of disposal:

Special precautions:

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Within the present knowledge of the supplier, this product IS regarded as hazardous waste, as defined by Directive 2008/98/EC and EU regulation 1357/2014.

20 01 27\* paint, inks, adhesives and resins containing dangerous substances

The generation of waste should be avoided or minimised wherever possible. Special precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

This material and its container must be disposed of in a safe way.

SECTION 14: Transport information

International transport regulations (ADR/RID, IMDG or ICAO/IATA):

ADR RID IMDG IATA 14.1. UN number or ID number - - - -

14.2. UN proper shipping name -

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

Other information 14.7. Maritime transport in bulk according to IMO instruments

- - - -

- - - -

- - - -

- - - -

- - - -Not applicable.

**Page: 13 of 15**

PN Base Coat

PBC

SECTION 15: Regulatory information

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

ADR - the European Agreement concerning the International Carriage of Dangerous Goods by Road, concluded at Geneva on 30 September 1957, as amended.

RID - the Regulations concerning the International Carriage of Dangerous Goods by Rail, appearing as Appendix C to the Convention concerning International Carriage by Rail (COTIF) concluded at Vilnius on 3 June 1999, as amended.

ADN - the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways concluded at Geneva on 26 May 2000, as amended.

IMDG Code - International Maritime Dangerous Goods Code.

IATA/ICAO: ICAO - International Civil Aviation Organization. IATA - International Air Transport Association.

MARPOL 73/78 - International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978.

COUNCIL DIRECTIVE 1999/13/EC of 11 March 1999 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations, with amendments (2004/42/CE).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives (Text with EEA relevance).

Commission Regulation (EU) No 1357/2014 of 18 December 2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives Text with EEA relevance. 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):

Annex XIV - List of substances Substances of very high concern: None of the components are listed. subject to authorization:

Annex XVII - Restrictions Not applicable. on the manufacture,

placing on the market and use of certain dangerous substances, mixtures and articles:

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Abbreviations and acronyms: Full text of abbreviations

Full text of classifications and H statements [CLP/ GHS]:

CLP: Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: International Rule for Transport of Dangerous Substances by Railway IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association CAS: Chemical Abstracts Service

EINECS: European Inventory of Existing Commercial Chemical Substances LC50: Median lethal concentration

LD50: Median lethal dose

REACH: Registration, Evaluation and Authorisation of Chemicals PBT: Persistent, bio-accumulative and toxic

vPvB: Very persistent, very bio-accumulative bw: Body weight

Acute Tox. 4, Acute toxicity (oral), Hazard Category 4; H302 Harmful if swallowed.

Skin Irrit. 2, Skin corrosion/ irritation, Hazard Category 2; H315 Causes skin irritation.

**Page: 14 of 15**

PN Base Coat

PBC

Classification system:

Training advice:

Used literature:

DISCLAIMER OF LIABILITY:

Skin Sens. 1A, 1B, Sensitisation — Skin, hazard category 1A, 1B; H317 May cause an allergic skin reaction.

Eye Irrit. 2, Serious eye damage/eye irritation, Hazard Category 2; H319 Causes serious eye irritation.

STOT SE 3, Specific target organ toxicity — Single exposure, Hazard Category 3, Respiratory tract irritation;

H335 May cause respiratory irritation.

Aquatic Chronic 2, Long-term (chronic) aquatic hazard, Category 2; H411 Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3, Long-term (chronic) aquatic hazard, Category 3; H412 Harmful to aquatic life with long lasting effects.

Classification for health effects: conventional (calculation) method is used or generic/specific concentration limits:

Skin Irrit. 2, H315 Skin Sens. 1A, H317 Eye Irrit. 2, H319 STOT SE 3, H335

Classification for physico-chemical effects: No applicable.

Classification for environmental effects: conventional (calculation) method is used.

Aquatic Chronic 3, H412

In addition to health, safety and environmental training programs for their workers, companies must ensure that workers read, understand and apply the requirements of this SDS.

European Chemical Agency’s homepage [(http://echa.europa.eu/)](http://echa.europa.eu/). Safety data sheets of individual components.

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END OF SAFETY DATA SHEET

**Page: 15 of 15**