

Safety Data Sheet

Regulation (EC) No. 1907/2006, 1272/2008

Version No.: 1.0

Printing Date: 5 January 2022

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SDS REPORT

Jade UK
16 Upton Road Worthing West Sussex Bn13 1bu UK

SDS Report No. : SDS20210526061
Compilation Date : December 26, 2021 ~ January 5, 2022
Trade Name : HEMA FREE TOP COAT
Composition/Ingredient of The Sample : See Section 3 on the SDS
Service Requested : Safety Data Sheet (SDS) for the sample with submitted composition.
Summary : As per request, the contents and formats of the SDS are prepared in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878, (EC) No 1272/2008 and are provided per attached.

Signed for and on behalf of
REAL Technical Center:



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Trade Name: HEMA FREE TOP COAT

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

1.1 Product identifier

- Trade name: HEMA FREE TOP COAT
- Registration number: No available data.
- UFI number: No available data.
- Other means of identification: No available data.

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

- Application of the substance/ mixture: For nail use only.
- Uses advised against: No data available.
- Reason why uses advised against: No data available.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GUANGZHOU RONIKI BEAUTY SUPPLIES CO., LTD

Room 310, Top Floor, Building 11, Lushigang, Huangshi Road, Hongfeng Creative Park, Baiyun District, Guangzhou, China.

Tel: +086 13539983347

Fax: +086 20-86388467

Email: manager.rnkgel@gzluoliqi.com

- Only Representative/other EU contact point: No information available.
- Further information obtainable from: GUANGZHOU RONIKI BEAUTY SUPPLIES CO., LTD

1.4 Emergency telephone number

In China

JOYCE

Tel: +086 13539983347

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to regulation (EC) 1272/2008:

Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2 Label elements

- Labeling according to Regulation (EC) No 1272/2008: The product is labelled according to CLP Regulation.
- Hazard pictograms:



GHS07 GHS09

- Signal word: Warning

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• **Hazard-determining components of labelling:** Pentaerythrityl tetramercaptopropionate; Trimethylbenzoyl diphenylphosphine oxide.

• **Hazard statements:**

H317 May cause an allergic skin reaction

H411 Toxic to aquatic life with long lasting effects

• **Precautionary statement:**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P261 Avoid breathing mist/vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves.

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

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local regulation.

• **Supplemental label elements:** Not applicable

• **2.3 Other hazards**

Trimethylbenzoyl diphenylphosphine oxide (CAS No.: 75980-60-8) meets the criteria for PBT/vPvB in accordance with Annex XIII.

None ingredients ($\geq 0.1\%$) identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

SECTION 3: Composition/information on ingredients

• **3.1 Substance**

Not applicable

• **3.2 Mixtures**

• **Description of the mixture:** HEMA FREE TOP COAT.

Ingredients:						
Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
Acrylates copolymer	25035-69-2	-	-	40-70	None	-
Trimethylolpropane trimethacrylate	3290-92-4	-	221-950-4	15-25	Aquatic Chronic 2, H411	-
Pentaerythrityl tetramercaptopropionate	7575-23-7	-	231-472-8	10-20	Acute Tox. 4, H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE(oral)= 1000mg/kg M=1 M(Chronic)=1
Hydroxycyclohexyl phenyl ketone	947-19-3	-	213-426-9	1-5	None	-
Trimethylbenzoyl diphenylphosphine oxide	75980-60-8	015-203-00-X	278-355-8	1-3	Skin Sens. 1B, H317 Repr. 2, H361f Aquatic Chronic 2, H411	Repr. 2, H361f: C $\geq 5\%$

Additional information:

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Full text of H- and EUH-phrases: see SECTION 16

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General advice: If medical advice is needed, have product container or label at hand.

After inhalation: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor, if you feel unwell.

After skin contact: Rinse skin with water/ shower. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

After swallowing: Wash mouth. Do NOT induce vomiting; Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

· 4.2 Most important symptoms and effects, both acute and delayed: May cause an allergic skin reaction.

· 4.3 Indication of any immediate medical attention and special treatment needed: Treatment according to symptoms, no known specific medicine.

SECTION 5: Fire-fighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents: Use CO₂, chemical powder, water spray or alcohol resistant foam to extinguish.

· Unsuitable extinguishing media: Water with full jet.

· 5.2 Special hazards arising from the substance or mixture: May form irritant / allergic vapor/ mist.

· 5.3 Advice for firefighters

Protective equipment: Wear an approved positive pressure self-contained breathing apparatus (Comply with EN 133).

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

· 6.1.1 For non-emergency personnel

Protective equipment: Protective gloves/ eye protection/ face protection/ dust mask.

Emergency procedures: Ensure good ventilation; Wear personal protective equipment; Avoid breathing vapor; void contact with eyes and skin; Avoid release to the environment.

· 6.1.2 For emergency responders

Personal protective equipment: Protective gloves/ eye protection/ face protection/ dust mask.

· 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so; Prevent spillage from entering drains, sewer, basement or confined areas; if the spillage contaminates rivers, lakes or drains inform respective authorities.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust); Ensure good ventilation; Dispose contaminated material as waste according to section 13.

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6.4 Reference to other sections:

See section 7 for information on safe handling; See section 8 for information on personal protection equipment; See section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Read label before use; Use only in well ventilated areas; Wear protective gloves /eye protection/face protection; Avoid breathing vapors; Use respiratory protective device against the effects of vapor; Avoid contact with eyes and skin; Avoid release to the environment.

• **Information about fire and explosion protection:** Keep away from ignition sources.

7.2 Conditions for safe storage, including any non-compatibility

• **Requirements to be met by storerooms and receptacles:** Store in a well-ventilated place. Keep cool.

• **Information about storage in one common storage facility:** Keep out of reach of children

• **Further information about storage conditions:** Store locked up.

• **Storage class:** 12.

• **7.3 Specific end use(s):** See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

• **Ingredients with limit values that require monitoring at the workplace:** No available data.

• DNELs:

DNEL type		DNEL worker value	DNEL consumer value
7575-23-7 Pentaerythrityl tetramercaptopropionate			
Systemic effects	Long-term, inhalation exposure	1.74 mg/m ³	430 µg/m ³
	Long-term, dermal exposure	5 mg/kg bw/day	2.5 mg/kg bw/day
	Long-term, oral exposure	-	250 µg/kg bw/day
Local effects	Long-term, inhalation exposure	40.13 mg/m ³	20.07 mg/m ³
	Acute /short term, inhalation exposure	40.13 mg/m ³	20.07 mg/m ³
75980-60-8 Trimethylbenzoyl diphenylphosphine oxide			
Systemic Effects	Long-term, inhalation exposure	822 µg/m ³	145 µg/m ³
	Long-term, dermal exposure	233 µg/kg bw/day	83.3 µg/kg bw/day
	Long-term, oral exposure	-	83.3 µg/kg bw/day

• PNECs:

PNEC type	Value
7575-23-7 Pentaerythrityl tetramercaptopropionate	
Freshwater	30 ng/L
Intermittent releases (freshwater)	340 ng/L
Marine water	3.4 ng/L
Sewage treatment plant (STP)	2.39 mg/L

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Sediment (freshwater)	1.02 µg/kg sediment dw
Sediment (marine water)	102 ng/kg sediment dw
Soil	184 ng/kg soil dw
75980-60-8 Trimethylbenzoyl diphenylphosphine oxide	
Freshwater	1.4 µg/L
Intermittent releases (freshwater)	14 µg/L
Marine water	140 ng/L
Intermittent releases (marine water)	1.4 µg/L
Sediment (freshwater)	115 µg/kg sediment dw
Sediment (marine water)	11.5 µg/kg sediment dw
Soil	22.2 µg/kg soil dw

• **Additional information:** The lists valid during the marking were used as basis.

• 8.2 Exposure controls

• **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

• Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice; See section 7 for information about design of technical facilities.

• Personal protective equipment

• Eye and face protection:



Safety glasses

Protective goggles with side-shields.

• Skin protection

• Hand protection:



Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.11mm; breakthrough times up to 480 minutes).

• **Other skin protection:** Boots, bodysuit are recommended.

• **Respiration protection:** Dust mask is recommended.

• Thermal hazards:

The gauntlets, boots, bodysuit and other personal protective equipment must be flame retardant and no heat-conducting.

• Environmental exposure controls:

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

• Physical state	Gel
• Color	Clear

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· Odor & Odor threshold	Fruity(Esters)
· Melting point/freezing point	Not determined
· Boiling point or initial boiling point and boiling range	The mixture decomposes when heated.
· Flammability	Not flammable liquid
· Lower and upper explosion limit	Not determined
· Flash point	130°C (Trimethylolpropane trimethacrylate)
· Auto-ignition temperature	360°C (Trimethylolpropane trimethacrylate)
· Decomposition temperature	Not determined
· pH	Not determined, this product is insoluble in water.
· Kinematic viscosity (mm ² /s)	Not determined
· Solubility	Insoluble in water
· Partition coefficient n-octanol/water (log value)	Not determined
· Vapor pressure	Not determined
· Density and/or relative density	Not determined
· Relative vapor density	Not determined
· Particle characteristics	Not applicable
· 9.2 Other information	
· 9.2.1 Information with regard to physical hazard classes:	
· Explosives	Not applicable
· Flammable gases	Not applicable
· Aerosols	Not applicable
· Oxidising gases	Not applicable
· Gases under pressure	Not applicable
· Flammable liquids	Not determined
· Flammable solids	Not applicable
· Self-reactive substances and mixtures	Not applicable
· Pyrophoric liquids	Not applicable
· Pyrophoric solids	Not applicable
· Self-heating substances and mixtures	Not applicable
· Substances and mixtures, which emit flammable gases in contact with water	Not applicable
· Oxidizing liquids	Not applicable
· Oxidizing solids	Not applicable
· Organic peroxides	Not applicable
· Corrosive to metals	Not applicable
· Desensitised explosives	Not applicable
· 9.2.2 Other safety characteristics	
· Mechanical sensitivity	Not applicable
· Self-accelerating polymerisation temperature	Not applicable
· Formation of explosible dust/air mixtures	Not applicable
· Acid/alkaline reserve	Not applicable
· Evaporation rate	Not applicable
· Miscibility	Not applicable

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· Conductivity	Not applicable
· Corrosiveness	Not applicable
· Gas group	Not applicable
· Redox potential	Not applicable
· Radical formation potential	Not applicable
· Photocatalytic properties	Not applicable
· Other physical and chemical parameters	Not determined

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** The product is no-reactive under normal conditions of use, storage and transport.
- **10.2 Chemical stability:** Under storage at normal ambient temperatures, the product is stable.
- **10.3 Possibility of hazardous reactions:** No known hazardous reaction.
- **10.4 Conditions to avoid:** High temperature.
- **10.5 Incompatible materials:** Strong acid and strong oxidizing agent.
- **10.6 Hazardous decomposition products:** No known hazardous decomposition products.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

LD50/LC50 values relevant for classification:		
7575-23-7 Pentaerythrityl tetramercaptopropionate		
Rat	LD50-oral	1000mg/kg
947-19-3 Hydroxycyclohexyl phenyl ketone		
Rat	LD50-oral	2500mg/kg
	LD50-skin	5000mg/kg
Remark: All the above data are from literature.		

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eyes damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization:** May cause an allergic skin reaction.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **Summary of evaluation of the CMR properties:** This mixture is not classified as CMR mixture.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

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• **Aspiration hazard:** Based on available data, the classification criteria are not met.

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties:**

None ingredient ($\geq 0.1\%$) is considered to have endocrine-disrupting properties with respect to humans as it meets the criteria set out in section A of Regulation (EU) No 2017/2100.

11.2.2 Other information: No known other relevant information on adverse health effects.

SECTION 12: Ecological information• **12.1 Toxicity:**

LC50/EC50/NOEC values relevant for classification:	
3290-92-4 Trimethylolpropane trimethacrylate	
Short-term toxicity to fish	LC50 (4 days) 2 mg/L
Long-term toxicity to fish	NOEC (32 days) 138 - 1 431 µg/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 9.22 mg/L NOEC (48 h) 9.2 mg/L
Toxicity to aquatic algae and cyanobacteria	NOEC (72 h) 177 µg/L EC50 (72 h) 3.88 mg/L
Toxicity to microorganisms	EC50 (3 h) 1 g/L
7575-23-7 Pentaerythrityl tetramercaptopropionate	
Short-term toxicity to fish	EC50 (4 days) 420 µg/L NOEC (4 days) 320 µg/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 350 µg/L NOEC (48 h) 350 µg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 120 µg/L NOEC (72 h) 120 µg/L
Toxicity to microorganisms	NOEC (28d) 23.9 mg/L
75980-60-8 Trimethylbenzoyl diphenylphosphine oxide	
Short-term toxicity to fish	LC50 (4 days) 1.4 mg/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 3.53 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 1.56 mg/L
Toxicity to microorganisms	EC50 (3 h) 1 g/L

• **12.2 Persistence and degradability:**

3290-92-4	Trimethylolpropane trimethacrylate	Inherently biodegradable, fulfilling specific criteria
7575-23-7	Pentaerythrityl tetramercaptopropionate	Not readily biodegradable, but Inherently biodegradable
75980-60-8	Trimethylbenzoyl diphenylphosphine oxide	Under test conditions no biodegradation observed

• **12.3 Bio-accumulative potential:**

3290-92-4	Trimethylolpropane trimethacrylate	Log Pow= 4.19 at 20°C
7575-23-7	Pentaerythrityl tetramercaptopropionate	Log Pow= 2.8 at 30°C
75980-60-8	Trimethylbenzoyl diphenylphosphine oxide	Log Pow= 3.1 at 23 °C

• **12.4 Mobility in soil:**

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3290-92-4	Trimethylolpropane trimethacrylate	Log Koc =3.24 at 20 °C
7575-23-7	Pentaerythrityl tetramercaptopropionate	Log Koc=2.54 at 20 °C
75980-60-8	Trimethylbenzoyl diphenylphosphine oxide	Log Koc = 2.89 at 20 °C

12.5 Results of PBT and vPvB assessment

Trimethylbenzoyl diphenylphosphine oxide (CAS No.: 75980-60-8) is assessed to be a PBT. It was suspected of damaging fertility or the unborn child. Trimethylbenzoyl diphenylphosphine oxide (CAS No.: 75980-60-8) was suspected of damaging fertility.

12.6 Endocrine disrupting properties:

None ingredient ($\geq 0.1\%$) has endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

12.7 Other adverse effects: No known other adverse effects.

12.8 Additional ecological information

General notes: WGK2 (German Regulation) (self-assessment): Distinct hazard to waters.

Do not allow the product to reach ground water, water course or sewage system.

SECTION 13: Disposal consideration

13.1 Waste treatment methods

Recommendation: Must not be disposed together with household garbage.

13.2 Un-cleaned packaging

Recommendation: Dispose of contents/container in according to the local/regional/national/ international regulation.

SECTION 14: Transport information

14.1 UN-Number

ADR, RID, ADN, IMDG, IATA

UN3082

14.2 UN proper shipping name

ADR, RID, ADN, IMDG, IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3 Transport hazard class (es)

ADR, RID, ADN, IMDG, IATA



Class

9 Miscellaneous dangerous substances and articles

Label

9

14.4 Packing group

ADR, RID, ADN, IMDG, IATA

III

14.5 Marine pollution

Yes

14.6 Special precautions for user

Danger code (Kemler)

90

EMS number

F-A, S-F

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

IBC03

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **MAK (German Maximum Workplace Concentration):** None of the ingredients is listed.
- **Directive 2012/18/EU**
- **Named dangerous substances-ANNEX I:** None of the ingredients is listed.
- **Seveso category:**
E2 Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements:** 200.
- **Qualifying quantity (tonnes) for the application of upper-tier requirements:** 500.
- **National regulations.**
- **Water hazard class:** WGK2 (German Regulation) (self-assessment): Hazard to waters.
- **Other regulations, limitations and prohibitive regulations**
- **SVHC Candidate list of REACH Regulation Annex XIV Authorization:** None of the ingredients is listed.
- **REACH Regulation Annex XVII Restriction:** None of the ingredients is listed.
- **REACH Regulation Annex XIV Authorization List:** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

- **16.1 Indication of changes:**

Not applicable

- **16.2 Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

vPvB: very persistent and very bio accumulative

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

Acute Tox. 4: Acute toxicity, hazard category 4

Skin Sens. 1: Skin sensitisation, hazard category 1

Skin Sens. 1B: Respiratory or skin sensitisation, hazard category 1B

Repr. 2: Reproductive toxicity, hazard category 2

Aquatic Acute 1: Short-term (acute) aquatic hazard, hazard category 1

Aquatic Chronic 1: Long-term (chronic) aquatic hazard, hazard category 1

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Aquatic Chronic 2: Long-term (chronic) aquatic hazard, hazard category 2

• **16.3 Key literature references and sources for data**

<https://echa.europa.eu/>
<https://chem.nlm.nih.gov/>
<https://www.osha.gov/>
<http://www.unece.org/>
<http://www.imo.org/>
<https://www.dguv.de/>
<https://epa.govt.nz/>
<http://www.ilo.org/>
<https://www.phmsa.dot.gov/>

• **16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:**

See SECTION 2.1 (classification).

• **16.5 Relevant H- and EUH-phrases (number and full text):**

H302 Harmful if swallowed
H317 May cause an allergic skin reaction
H361f Suspected of damaging fertility
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

• **16.6 Training advice:**

Workers must be educated and trained so they understand the hazards, and know how to work safely with hazardous products.

• **16.7 Further information**

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

DISCLAIMER OF LIABILITY:

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End of safety data sheet