Safety Data Sheet

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

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SDS REPORT

B-PRO Systems
Triq il-Bacir il-Gdid PAOLA MALTA

SDS Report No.	:	SDS202211020903
Compilation Date	:	November 4, 2022
Trade Name	:	Gel Polish
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.

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

·1.1 Product identifier

·Trade name:

Gel Polish

·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:

Consumer uses, nail beauty.

·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:

B-PRO SYSTEMS

TRIQ IL-BACIR IL_GDID PAOLA MALTA

Post code: PLA1501

Tel: +356 27033033

Email: info@bprosystems.com

·Only Representative/other EU contact point:

No information available.

·Further information obtainable from:

B-PRO Systems

·1.4 Emergency telephone number

Tel: +356 27033033

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
Eye Dam. 1, H318	Calculation method
STOT RE 2, H373	Calculation method

·2.1.2 Additional information:

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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:

GHS05 GHS07 GHS08

·Signal word:

Danger.

·Hazard-determining components of labelling:

Acryloyl Morpholine; Ethyl trimethylbenzoyl phenylphosphinate.

·Hazard statements:

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure

·Precautionary statement:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P260	Do not breathe vapours.
P264	Wash hands and face thoroughly after handling.
P280	Wear protective gloves eye protection face protection.
P305+P351+P338+P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

·Supplemental label elements:

Not applicable

·2.3 Other hazards

None of the ingredients (≥0.1%) meets the criteria for PBT/vPvB in accordance with Annex XIII.

None of the ingredients (≥0.1%) is 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:

Gel Polish.

Ingredients:

Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE

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Acrylates copolymer	25035-69-2	-	-	70	None	-
Acryloyl Morpholine	5117-12-4	613-222-00-3	418-140-1	25	Acute Tox. 4, H302 Skin Sens. 1, H317 Eye Dam. 1, H318 STOT RE 2, H373	ATE (oral)=588 mg/kg Eye Dam. 1, H318: C≥10% Eye Irrit. 2, H319: 5%≤C<10%
Ethyl trimethylbenzoyl phenylphosphinate	84434-11-7	-	282-810-6	2	Skin Sens. 1B, H317 Aquatic Chronic 2, H411	-
Hydroxycyclohexyl phenyl ketone	947-19-3	-	213-426-9	2	None	-
Iron oxide (Fe2O3), hydrate	12259-21-1	-	-	0-1	None	-
CI 15510	633-96-5	-	211-199-0	0-1	STOT RE 1, H372 Aquatic Chronic 3, H412	-
CI 77499	1317-61-9	-	215-277-5	0-1	None	-
CI 77891	13463-67-7	-	236-675-5	0-1	None	-
CI 19140	12225-21-7	-	235-428-9	0-1	None	-

Additional information:

Full text of H-statements, 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.

Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

After swallowing:

Wash mouth.

Get medical attention if you feel unwell.

·4.2 Most important symptoms and effects, both acute and delayed:

May cause an allergic skin reaction.

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Causes serious eye damage.
May cause damage to organs through prolonged or repeated exposure.

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

SECTION 5: Fire-fighting measures

·5.1 Extinguishing media
·Suitable extinguishing agents:
Use CO_2, 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 corrosive/allergic vapor.

·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:
Wear protective gloves /eye protection/ face protection and respiration protection.
Emergency procedures:
Ensure good ventilation.
Wear protective gloves /eye protection/ face protection and respiration protection.
Wear personal protective equipment.
Avoid breathing vapor.
Avoid contact with eyes and skin.
·6.1.2 For emergency responders
Personal protective equipment:
Wear protective gloves /eye protection/ face protection and respiration protection.

·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.

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Dispose contaminated material as waste according to section 13.

·6.4 Reference to other sections:
See section 7 for information on safe handing.
See section 8 for information on personal protection equipment.
See section 13 for disposal in formation.

SECTION 7: Handling and storage

·7.1 Precautions for safe handling:
Read carefully and follow all instructions.
Ensure well ventilation at workplace.
Avoid breathing vapor.
Use respiratory protective device against the effect of vapor.
Avoid contact with eyes and skin.
·Information about fire and explosion protection:
Normal measures for preventive fire protection.

·7.2 Conditions for safe storage, including any non-compatibility
·Requirements to be met by storerooms and receptacles:
Store in a well-ventilated place.
·Information about storage in one common storage facility:
Keep out of reach of children.
·Further information about storage conditions:
No further requirements.
·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:

Country	Limit value - Eight hours	Limit value - Short term
13463-67-7 CI 77891		
Belgium	10 mg/m³	-
Denmark	6 mg/m³Total dust	10 mg/m³ Total dust
France	11 mg/m³Inhalable aerosol	-
Germany (DFG)	0.3 mg/m³ Respirable fraction	2.4mg/m³ Respirable fraction; 15 minutes average value
Ireland	10 mg/m³Inhalable fraction; 4 mg/m³Respirable fraction	-
Latvia	10 mg/m³	-
Poland	10 mg/m³	30 mg/m³

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Romania	10 mg/m³	15 mg/m³15 minutes average value
Spain	10 mg/m³ Inhalable aerosol	-
Sweden	5 mg/m³ Inhalable aerosol	-
United Kingdom	10 mg/m³ Inhalable aerosol; 4 mg/m³ Respirable aerosol	-

·DNELs:

DNEL type		DNEL worker value	DNEL consumer value
947-19-3 Hydroxycyclohexyl phenyl ketone			
Systemic Effects	Long-term, inhalation exposure	21.16 mg/m³	5.22 mg/m³
	Long-term, dermal exposure	3 mg/kg bw/day	1.5 mg/kg bw/day
	Long-term, oral exposure	-	1.5 mg/kg bw/day
13463-67-7 CI 77891			
Local effects	Long-term, inhalation exposure	10 mg/m³	-
Systemic effects	Long-term, oral exposure	-	700 mg/kg bw/day

·PNECs:

PNEC type	Value
947-19-3 Hydroxycyclohexyl phenyl ketone	
Freshwater	14.4 µg/L
Intermittent releases (freshwater)	144 µg/L
Marine water	1.44 µg/L
Sewage treatment plant (STP)	10 mg/L
Sediment (freshwater)	186 µg/kg sediment dw
Sediment (marine water)	18.6 µg/kg sediment dw
13463-67-7 CI 77891	
Freshwater	184 µg/L
Intermittent releases (freshwater)	193 µg/L
Marine water	18.4 µg/L
Sewage treatment plant (STP)	100 mg/L
Sediment (freshwater)	1000 mg/kg sediment dw
Sediment (marine water)	100 mg/kg sediment 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.

Wash hands and face before breaks and at the end of work.

See section 7 for information about design of technical facilities.

·Personal protective equipment

·Eye and face protection:

Safety glasses

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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:

Not required under normal conditions of use.

For industrial applications, following protection required:

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	Various
·Odor & Odor threshold	Weak odor
·Melting point/freezing point	158°C (Acryloyl Morpholine)
·Boiling point or initial boiling point and boiling range	Not determined
·Flammability	Not flammable gel
·Lower and upper explosion limit	Not determined
·Flash point	126.5°C (Acryloyl Morpholine)
·Auto-ignition temperature	Not determined
·Decomposition temperature	Not determined
·pH	Not determined
·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	CI 77891 particles with an aerodynamic diameter ≤ 10 μm is less than 1% (w/w)

·9.2 Other information

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·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 applicable
·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 determined
·Miscibility	Not applicable
·Conductivity	Not applicable
·Corrosiveness	Not determined
·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 non-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.

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·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:		
947-19-3 Hydroxycyclohexyl phenyl ketone		
Rat	LD50-oral LD50-skin	2500mg/kg 5000mg/kg
13463-67-7 CI 77891		
Rat	LD50-oral LC50-inhalation	>20000mg/kg >6.82mg/L
Rabbit	LD50-skin	>10000mg/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:

Causes serious eye damage.

·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.

·STOT-single exposure:

Based on available data, the classification criteria are not met.

·STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

·Aspiration hazard:

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Based on available data, the classification criteria are not met.

·11.2 Information on other hazards

·11.2.1 Endocrine disrupting properties:

None of the ingredients (≥0.1%) is considered to have endocrine-disrupting properties with respect to humans, as none of them meet 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:	
84434-11-7 Ethyl trimethylbenzoyl phenylphosphinate	
Short–term toxicity to fish	LC50 (4 days) 1.89 mg/L NOEC (4 days) 1.29 mg/L
Short–term toxicity to aquatic invertebrates	EC50 (48 h) 2.26 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 1.01 mg/L
Toxicity to microorganisms	EC50 (3 h) 1 g/L
947-19-3 Hydroxycyclohexyl phenyl ketone	
Short–term toxicity to fish	LC50 (4 days) 24 mg/L
Short–term toxicity to aquatic invertebrates	EC50 (48 h) 53.9 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 4.68 - 14.4 mg/L NOEC (72 h) 700 µg/L
Toxicity to microorganisms	EC50 (3 h) 100 mg/L
12225-21-7 CI 19140	
Short–term toxicity to fish	LC50 (4 days) 100 - 386.231 mg/L
Short–term toxicity to aquatic invertebrates	EC50 (48 h) 360.4 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 100 mg/L
Toxicity to microorganisms	EC50 (5 min) 22.19 mg/L

·12.2 Persistence and degradability:

84434-11-7	Ethyl trimethylbenzoyl phenylphosphinate	Not readily biodegradable in water.
947-19-3	Hydroxycyclohexyl phenyl ketone	Readily biodegradable in water

·12.3 Bio-accumulative potential:

84434-11-7	Ethyl trimethylbenzoyl phenylphosphinate	Log Pow= 2.91
947-19-3	Hydroxycyclohexyl phenyl ketone	Log Pow= 2.81
12225-21-7	CI 19140	Log Pow = 0.028

·12.4 Mobility in soil:

84434-11-7	Ethyl trimethylbenzoyl phenylphosphinate	Log Koc = 3.37
947-19-3	Hydroxycyclohexyl phenyl ketone	Henrys law constant (H)= 0.282

·12.5 Results of PBT and vPvB assessment

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This mixture does not contain any substances (≥0.1%) that are assessed to be a PBT or a vPvB.

·12.6 Endocrine disrupting properties:

None of the ingredients (≥0.1%) is considered to have endocrine-disrupting properties with respect to non-target organisms, as none of them 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:

WGK1 (German Regulation) (self-assessment): Low 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

·ADR/RID (2021 Edition)	This product is not subject to ADR/RID.
·IATA-DGR (63th)	This product is not subject to IATA-DGR.
·IMO/IMDG (40-20)	This product is not subject to IMO/IMDG code.

SECTION 15: Regulatory information

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

·MAK (German Maximum Workplace Concentration):

1317-61-9	CI 77499	3
13463-67-7	CI 77891	4

·Directive 2012/18/EU

·Named dangerous substances-ANNEX I:

None of the ingredients is listed.

·Seveso category:

Not applicable

·Qualifying quantity (tonnes) for the application of lower-tier requirements: Not applicable

·Qualifying quantity (tonnes) for the application of upper-tier requirements: Not applicable

·National regulations.

·Water hazard class:

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WGK1 (German Regulation) (self-assessment): Low 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:

None.

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 sensitization, hazard category 1.

Skin Sens.1B: Skin sensitization, hazard category 1B.

Eye Dam. 1: Eye damage/irritation, hazard category 1.

Eye Irrit.2: Eye damage/irritation, hazard category 2.

STOT RE 1: Specific target organ toxicity after repeated exposure, hazard category 1.

STOT RE 2: Specific target organ toxicity after repeated exposure, hazard category 2.

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

Aquatic Chronic 3: Long-term (chronic) aquatic hazard, hazard category 3.

·16.3 Key literature references and sources for data

https://echa.europa.eu/

https://chem.nlm.nih.gov/

https://www.osha.gov/

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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.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H372 Causes damage to organs through prolonged or repeated exposure
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects
H412 Harmful 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.
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End of safety data sheet