Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

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

1.1. Product identifier

Code:	**REF 10000**
Product name	**SP749 Cherry Red**

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

Intended use	**Nail polish and nail gel. Professional uses. Professional use. Nail cosmetics.**

1.3. Details of the supplier of the safety data sheet

Name	**PASSIONE BEAUTY S.P.A.**		
Full address	**Viale Crispi 89-93**		
District and Country	**36100**	**Vicenza**	**(VI)**
		Italia	
	Tel.	**+39 0444-239569**	
e-mail address of the competent person responsible for the Safety Data Sheet	**quality@pucosmetica.it**		

1.4. Emergency telephone number

For urgent inquiries refer to	**+39 0444-239569**

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Acute toxicity, category 4	H302	Harmful if swallowed.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal words: Warning

Hazard statements:

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

SECTION 2. Hazards identification ... / >>

Precautionary statements:

P280	Wear protective gloves / eye protection / face protection.
P273	Avoid release to the environment.
P391	Collect spillage.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P337+P313	If eye irritation persists: Get medical advice / attention.

Contains:
Isobornil metacrylate
PENTAERYTHRITIL TETRAMERCAPTOPROPIONATE
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE
Hydroxypropyl Methacrylate
Peg-4 Trimethylolpropane Triacrylate
P-HYDROXYANISOLE

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
Hydroxypropyl Methacrylate		
INDEX	23,5 ≤ x < 25	**Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1B H317**
EC 248-666-3		**ATE Oral: 500 mg/kg**
CAS 27813-02-1		
BIS(PENTAERYTHRITYL TRIACRYLATE) PENTAERYTHRITYL		
INDEX	24 ≤ x < 25,5	**Eye Irrit. 2 H319, Skin Irrit. 2 H315**
EC		
CAS		
Peg-4 Trimethylolpropane Triacrylate		
INDEX	8,5 ≤ x < 10	**Eye Irrit. 2 H319, Skin Sens. 1B H317, Aquatic Chronic 3 H412**
EC 500-066-5		
CAS 28961-43-5		
Isobornil metacrylate		
INDEX	8,5 ≤ x < 10	**Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1 H317**
EC 231-403-1		**ATE Oral: 500 mg/kg**
CAS 7534-94-3		
PENTAERYTHRITIL TETRAMERCAPTOPROPIONATE		
INDEX	4 ≤ x < 4,5	**Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411**
EC 231-472-8		**ATE Oral: 500 mg/kg, ATE Inhalation mists/powders: 1,5 mg/l, ATE Inhalation vapours: 11 mg/l**
CAS 7575-23-7		
ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE		
INDEX	4 ≤ x < 4,5	**Acute Tox. 4 H312, Skin Sens. 1B H317, Aquatic Chronic 2 H411**
EC 282-810-6		**ATE Dermal: 1100 mg/kg**
CAS 84434-11-7		
BUTYL ACETATE		
INDEX	4 ≤ x < 4,5	**Flam. Liq. 3 H226, STOT SE 3 H336**
EC 204-658-1		
CAS 123-86-4		
SUCROSE BENZOATE		
INDEX	4 ≤ x < 4,5	**STOT RE 2 H373**
EC 235-795-5		
CAS 12738-64-6		
ethyl acetate		
INDEX	4 ≤ x < 4,5	**Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066**
EC 205-500-4		

SECTION 3. Composition/information on ingredients ... / >>

CAS	*141-78-6*		
CI 77891			
INDEX		1 ≤ x < 1,5	**Carc. 2 H351**
EC	*236-675-5*		
CAS	*13463-67-7*		
propan-2-ol			
INDEX		1 ≤ x < 1,5	**Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336**
EC	*200-661-7*		
CAS	*67-63-0*		
P-HYDROXYANISOLE			
INDEX		0,1 ≤ x < 0,15	**Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Chronic 2 H411**
EC	*205-769-8*		**ATE Oral: 500 mg/kg**
CAS	*150-76-5*		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

General notes
Don't leave the victim alone. Remove the victim from the risk area. Calm the victim, keep him covered and warm. Take off contaminated clothing immediately. If in doubt or if symptoms persist, notify your doctor. If the subject is unconscious, transport him in a stable position on his side. Do not give anything.
If inhaled
If breathing is irregular or steady, give artificial respiration and call a doctor immediately. In case of respiratory tract irritation, consult a doctor. Provide fresh air. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Apply the cortisone spray immediately.
In contact with skin
Wash thoroughly with soap and water. Remove all contaminated clothing immediately. In case of skin irritation or rash: consult a doctor.
In contact with eyes
Remove any contact lenses if it is easy to do so. Continue rinsing. Wash with running water for 10 minutes keeping the eyelids open. Immediately call a POISON CENTER or doctor.
If ingested
Rinse mouth with water (only if the injured person is conscious). DO NOT induce vomiting.

Rescuer protection

Information not available

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

There are currently no known symptoms and effects.

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

Nothing

Means to have available in the workplace for specific and immediate treatment

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Water spray, BC powder, Carbon dioxide (CO2)
Unsuitable extinguishing media
Water jet

5.2. Special hazards arising from the substance or mixture

Dangerous combustion products
Nitrogen oxides (NOX), carbon monoxide (CO), carbon dioxide (CO2)

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe the fumes. Coordinate fire -fighting measures in the surrounding areas. Prevent the plowing of firefighting water in sewer and waterways. Collect the contaminated fire -fighting water.
Use the extinguishing means with the usual precautions at a reasonable distance.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For those who do not intervene directly
Bring victims to safety. Avoid contact with eyes and skin.
For those who intervene directly
Wear a respirator if exposed to vapours/dusts/aerosols/gases.

6.2. Environmental precautions

Keep away from drains, surface water and groundwater. Contain contaminated washing water and dispose of it. If the material has entered a watercourse or sewer, inform the Competent Authority.

6.3. Methods and material for containment and cleaning up

Recommendations on how to contain a spill
Drain coverage
Recommendations on how to clean up a spill
Collect with absorbent material (e.g. tea towel, fleece). Collect spilled material: sawdust, kieselgur (diatomite), sand, universal binder
Adequate containment techniques
Use of adsorbent materials.
Other information relating to spills and releases
Place in appropriate containers for disposal. Ventilate the affected area.

6.4. Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10.
Disposal considerations: see section 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Recommendations
- measures to prevent fires and the formation of aerosols and dust
Use local and general ventilation. Use only in a well-ventilated place.
Generic recommendations on professional hygiene
Wash your hands after use. Do not eat, drink or smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drinks in the presence of chemicals. Never put chemicals in containers that are typically used for food or drinks.
Keep away from food or feed and drinks.

7.2. Conditions for safe storage, including any incompatibilities

Protect from: UV rays/sunlight, Heat, Cold, Moisture, Keep only in the original container, Temperature
storage: 10-25°C
- packaging compatibility
Only approved packaging (e.g. according to ADR) may be used.

7.3. Specific end use(s)

See section 16 for a general overview.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

BUTYL ACETATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	241	50	150	723	

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,18	mg/l
Normal value in marine water	0,018	mg/l
Normal value for fresh water sediment	0,981	mg/kg
Normal value for marine water sediment	0,098	mg/kg
Normal value of STP microorganisms	35,6	mg/l
Normal value for the terrestrial compartment	0,09	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation					600 mg/m3	600 mg/m3	300 mg/m3	300 mg/m3
Skin						11 mg/kg bw/d		11 mg/kg bw/d

SUCROSE BENZOATE

Predicted no-effect concentration - PNEC

Normal value in fresh water	1,17	mg/l
Normal value in marine water	0,117	mg/l
Normal value for fresh water sediment	9,32	mg/kg
Normal value for marine water sediment	0,932	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,93	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation							0,1 mg/m3	1,7 mg/m3
Skin								5 mg/kg bw/d

CI 77891

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,184	mg/l
Normal value in marine water	0,018	mg/l
Normal value for fresh water sediment	1000	mg/kg
Normal value for marine water sediment	100	mg/kg
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	100	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation							10 mg/m3	

SECTION 8. Exposure controls/personal protection ... / >>

ethyl acetate

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
OEL	EU	734	200	1468	400	

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,24	mg/l
Normal value in marine water	0,024	mg/l
Normal value for fresh water sediment	1,15	mg/kg
Normal value for marine water sediment	0,115	mg/kg
Normal value of STP microorganisms	650	mg/l
Normal value for the terrestrial compartment	0,148	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation					1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3
Skin								63 mg/kg bw/d

P-HYDROXYANISOLE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,014	mg/l
Normal value in marine water	0,001	mg/l
Normal value for fresh water sediment	0,125	mg/kg/d
Normal value for marine water sediment	0,013	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,017	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation						10 mg/m3		3 mg/m3

Hydroxypropyl Methacrylate

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,904	mg/l
Normal value in marine water	0,09	mg/l
Normal value for fresh water sediment	4,13	mg/kg
Normal value for marine water sediment	0,413	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,295	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								14,7 mg/m3
Skin								4,2 mg/kg bw/d

SECTION 8. Exposure controls/personal protection ... / >>

Peg-4 Trimethylolpropane Triacrylate

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,002	mg/l
Normal value in marine water	0	mg/l
Normal value for fresh water sediment	0,038	mg/kg
Normal value for marine water sediment	0,004	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,006	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								37 mg/m3
Skin								10,5 mg/kg bw/d

propan-2-ol

Predicted no-effect concentration - PNEC

Normal value in fresh water	140,9	mg/l
Normal value in marine water	140,9	mg/l
Normal value for fresh water sediment	552	mg/kg
Normal value for marine water sediment	552	mg/kg
Normal value of STP microorganisms	2251	mg/l
Normal value for the terrestrial compartment	28	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation						1000 mg/m3		500 mg/m3
Skin								888 mg/kg bw/d

Isobornil metacrylate

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,904	mg/l
Normal value in marine water	0,904	mg/l
Normal value for fresh water sediment	6,28	mg/kg
Normal value for marine water sediment	6,28	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,727	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								14,7 mg/m3
Skin								4,2 mg/kg/d

SECTION 8. Exposure controls/personal protection ... / >>

PENTAERYTHRITIL TETRAMERCAPTOPROPIONATE

Predicted no-effect concentration - PNEC

Normal value for fresh water sediment	0,018	mg/kg
Normal value for marine water sediment	0,002	mg/kg
Normal value of STP microorganisms	2,39	mg/l
Normal value for the terrestrial compartment	0,003	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation					40,13 mg/m3	40,13 mg/m3		4,93 mg/m3
Skin								7 mg/kg bw/d

ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE

Predicted no-effect concentration - PNEC

Normal value for fresh water sediment	0,24	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								4,93 mg/m3
Skin								1,4 mg/kg bw/d

Legend:
(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

Hydroxypropyl Methacrylate
PNEC: 0.972 mg/l organisms, water, discontinuous release

Isobornil metacrylate
PNEC: 0.972 mg/l organisms, water, discontinuous release

PENTAERYTHRITIL TETRAMERCAPTOPROPIONATE
PNEC: 0.34 µg/l aquatic organisms, water, discontinuous release
PNEC: 0.42 µg/l aquatic organisms, waters, freshwater short term (isolated case)
PNEC: 0.042 µg/l aquatic organisms, marine waters, short term (isolated case)

ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE
PNEC: 1.01 µg/L Aquatic organisms, water, short -term sweets (isolated case)
PNEC: 0.101 µg/LA Aquatic organisms, waters, short -term marine (isolated case)
PNEC: 24 µg/kg aquatic organisms, marine sediments, short term (isolated case)
PNEC: 47.5 µg/kg terrestrial organisms, soil, short term (isolated case)

ethyl acetate
PNEC: 1.65 mg/l aquatic organisms, water, discontinuous release

propan-2-ol
PNEC: 140.9 mg/L water organisms, water, discontinuous release

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.
Provide an emergency shower with face and eye wash station.
HAND PROTECTION
Protect hands with category III work gloves.
The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SECTION 8. Exposure controls/personal protection ... / >>

SKIN PROTECTION
Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN ISO 16321).
In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.
RESPIRATORY PROTECTION
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.
ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.
Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value		Information
Appearance	Gel liquid		
Colour	red		
Odour	characteristic		
Melting point / freezing point	not available		
Initial boiling point	not available		
Flammability	incombustible		
Lower explosive limit	not available		
Upper explosive limit	not available		
Flash point	50,5 < T < 75	°C	Remark:at 101.3 Pa
Auto-ignition temperature	not available		
Decomposition temperature	not available		Remark:irrelevant
pH	not available		
Kinematic viscosity	not available		
Dynamic viscosity	3.000 – 5.000 mPa s, 22 °C		
Solubility	not available		
Partition coefficient: n-octanol/water	not available		
Vapour pressure	not available		
Density and/or relative density	1,09-1,2	g/cm3	Temperature: 23 °C
Relative vapour density	not available		
Particle characteristics	not applicable		

Other security features
Liquid content: 6.293 %

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Flammable liquids

Sustained combustibility	no (it did not produce prolonged combustion)

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

Regarding incompatibility: cf. under "Conditions to Avoid" and "Incompatible Materials".
If heated:
Exothermic polymerization
When exposed to light:
Exothermic polymerization.

10.2. Chemical stability

See "Conditions to Avoid" below.

10.3. Possibility of hazardous reactions

No known dangerous reactions.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames or other sources of ignition. Don't smoke. Store away from heat. UV rays/sunlight.

10.5. Incompatible materials

Reducing, There is no additional information.

10.6. Hazardous decomposition products

There are no known reasonably foreseeable hazardous decomposition products resulting from use, storage, spillage and heating. Hazardous combustion products: see section 5.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Oral) of the mixture:	1265,82 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

Hydroxypropyl Methacrylate
ATE (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

Exhibition route: oral. Sta: ≥2,000 mg/kg

SECTION 11. Toxicological information ... / >>

Peg-4 Trimethylolpropane Triacrylate
Exhibition route: oral. Sta:> 2,000 mg/kg

Isobornil metacrylate
ATE (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)
Route of exposure: oral. STA: 2,000 mg/kg

PENTAERYTHRITIL TETRAMERCAPTOPROPIONATE
ATE (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)
ATE (Inhalation mists/powders): 1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)
ATE (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)
Route of exposure: oral. ATE: >1,000 mg/kg
Route of exposure: inhalation: vapour. ATE: 11 mg/l/4h
Route of exposure: inhalation: dust/aerosol. ATE: >3.363 mg/l/4h

ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE
ATE (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)

SUCROSE BENZOATE
Exhibition route: oral. Sta: 2,742 mg/kg
Exposure route: Dermica. Sta:> 2,000 mg/kg
Exposure route: inhalation: dust/aerosol. Sta: 12.2 mg/l/4h

P-HYDROXYANISOLE
ATE (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP

P-HYDROXYANISOLE
Exhibition route: oral. Sta: 500 mg/kg
Via SEE: Dermica- sta:> 2,000 mg/kg

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

SECTION 11. Toxicological information ... / >>

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it has negative effects on the aquatic environment.

12.1. Toxicity

Hydroxypropyl Methacrylate
EC50 - for Crustacea > 143 mg/l/48h daphnia magna
LC50 493 mg/L fish 48 h
ERC50> 97.2 mg/L Alga 72 h

Peg-4 Trimethylolpropane Triacrylate
LC50 - for Fish 1,95 mg/l/96h pesce zebra (Danio rerio)
EC50 - for Crustacea 70,7 mg/l/48h DAPHNIA MAGNA
EC50 - for Algae / Aquatic Plants > 9,3 mg/l/72h ALGA

Isobornil metacrylate
EC50 - for Crustacea > 143 mg/l/48h invertebrati acquatici
LC50 493 mg/l fish 48 h
rC50 >97.2 mg/l algae 72 h

PENTAERYTHRITIL TETRAMERCAPTOPROPIONATE
LC50 - for Fish 0,42 mg/l/96h trota iridea (Oncorhynchus mykiss)
EC50 - for Crustacea > 0,35 mg/l/48h daphnia magna
ErC50 >0.65 mg/l algae 0 h
EC50 >0.65 mg/l algae 0 h

ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE
LC50 - for Fish 1,89 mg/l/96h pesce zebra (Danio rerio)
EC50 - for Crustacea 2,26 mg/l/48h daphna magna
ERC50 1.01 mg/l alga 72 h
EC50> 1,000 mg/l microorganisms 180 min

BUTYL ACETATE
LC50 - for Fish 18 mg/l/96h vairone a testa grossa (Pimephales promelas)
ErC50 392 mg/l algae 48 h
EC50 18 mg/l large-headed flux (Pimephales promelas) 96 h
ErC50 335 mg/l algae 24 hours
EC50 34.2 mg/l daphnia magna 21 days
LC50 43.5 mg/l daphnia magna 21 days

SUCROSE BENZOATE
LC50 - for Fish > 100 mg/l/96h
EC50 101.1 mg/l seaweed 48 h
EC50 83.29 mg/L Alga 2 days

SECTION 12. Ecological information ... / >>

ethyl acetate
LC50 - for Fish 230 mg/l/96h vairone a testa grossa (Pimephales promelas)
EC50 220 mg/l Vairone with a large head (pimephales promlas) 96 h
EC50 2,306 mg/l Acquatic Invertebrates 24 h

propan-2-ol
LC50 - for Fish 10000 mg/l/96h vairone a testa grossa (Pimephales promelas)
LC50> 10,000 mg/l Aquatic invertebrates 24 h

P-HYDROXYANISOLE
LC50 - for Fish 28,5 mg/l/96h trota iridea (Oncorhynchus mykiss)
EC50 - for Crustacea 3 mg/l/48h daphnia magna
ERC50 54.7 mg/l alga 72 h
Lk50> 1.45 mg/l Daphnia Magna 21 days
EC50 1.42 mg/l Daphnia Magna 21 days

12.2. Persistence and degradability

Hydroxypropyl Methacrylate
Process: OCD Removal
Degradation rate: 94.2%
Tempo: 28 giorni
Fonte: ECHA Chem

Peg-4 Trimethylolpropane Triacrylate
Process: carbon dioxide formation
Degradation speed: 58 - 61%
Time: 28 days
Source: Echa Chem

PENTAERYTHRITIL TETRAMERCAPTOPROPIONATE
Process: carbon dioxide formation
Degradation speed: 0%
Time: 1 day
Source: Echa Chem

ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE
Process: oxygen depletion. Degradation rate: <10%. Time: 28 days. Source: ECHA Chem

BUTYL ACETATE
Process: oxygen depletion. Degradation rate: 80%. Time: 5 days. Source: ECHA Chem

ethyl acetate
Process: oxygen depletion. Degradation rate: 62%. Time: 5 days. Source: ECHA Chem

propan-2-ol
Process: oxygen depletion. Degradation rate: 53%. Time: 5 days. Source: ECHA Chem

12.3. Bioaccumulative potential

Hydroxypropyl Methacrylate
Partition coefficient: n-octanol/water 0,97 20°

Peg-4 Trimethylolpropane Triacrylate
Partition coefficient: n-octanol/water 2,89 23°

SECTION 12. Ecological information ... / >>

Isobornil metacrylate
Partition coefficient: n-octanol/water 0,97 valore pH: 2, 20 °C

PENTAERYTHRITIL TETRAMERCAPTOPROPIONATE
Partition coefficient: n-octanol/water 3,03 30°C
BCF 23,7

ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE
Partition coefficient: n-octanol/water 2,91 25°C

BUTYL ACETATE
Partition coefficient: n-octanol/water 2,3 25°C

SUCROSE BENZOATE
Partition coefficient: n-octanol/water 1,54 25°C

ethyl acetate
Partition coefficient: n-octanol/water 0,68 25°C
BCF 30

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Waste transportation may be subject to ADR restrictions.
The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to IATA dangerous goods regulations.

SECTION 14. Transport information ... / >>

14.2. UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PENTAERYTHRITIL TETRAMERCAPTOPROPIONATE; ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PENTAERYTHRITIL TETRAMERCAPTOPROPIONATE; ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PENTAERYTHRITIL TETRAMERCAPTOPROPIONATE; ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE)

14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9

IMDG: Class: 9 Label: 9

IATA: Class: 9 Label: 9

14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous

IMDG: Marine Pollutant

IATA: Environmentally Hazardous

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 90	Limited Quantities: 5 lt	Tunnel restriction code: (-)
	Special provision: 274, 335, 375, 601, 650		
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 lt	
IATA:	Cargo:	Maximum quantity: 450 L	Packaging instructions: 964
	Passengers:	Maximum quantity: 450 L	Packaging instructions: 964
	Special provision:	A97, A158, A197, A215	

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: E2

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

SECTION 15. Regulatory information ... / >>

Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:
None

Substances subject to the Rotterdam Convention:
None

Substances subject to the Stockholm Convention:
None

Healthcare controls
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Carc. 2	Carcinogenicity, category 2
Acute Tox. 4	Acute toxicity, category 4
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Skin Sens. 1B	Skin sensitization, category 1B
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H351	Suspected of causing cancer.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation

SECTION 16. Other information ... / >>

- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
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4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
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10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
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- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.