

SPB77, SPB78, SPB79, SPB82 - HD Base**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: **SPB77, SPB78, SPB79, SPB82**
Product name **HD Base****1.2. Relevant identified uses of the substance or mixture and uses advised against**Intended use **Cosmetic****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:

Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful 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 word: **Warning**

Hazard statements:

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.

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SECTION 2. Hazards identification ... / >>

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P280 Wear protective gloves / eye protection / face protection.
P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
P312 Call a POISON CENTRE / doctor / . . . if you feel unwell.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P264 Wash . . . thoroughly after handling.
P362+P364 Take off contaminated clothing and wash it before reuse.

Contains: Methacrylic acid, monoester with propane 1,2-diol
 [HYDROXYPROPYL METHACRYLATE]
 BIS-HEA POLY(1,4-BUTANDIOL)-9/HYPDICOPOLYMER
 ETHYLTRIMETHYLBENZOYL PHENYLPHOSPHINATE
 Exo-1,7,7- trimethylbicyclo[2.2.1]hept-2-yl acrylate
 ISOBORNYL ACRYLATE
 Propylidinetrimethanol, ethoxylated, esters with acrylic acid
 [PEG-9 TRIMETHYLOLPROPANE TRIAACRYLATE]

2.3. Other hazards

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

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
BIS-HEA POLY(1,4-BUTANDIOL)-9/HYPDICOPOLYMER		
INDEX	$45 \leq x < 47,5$	Eye Irrit. 2 H319, Skin Sens. 1 H317
EC		
CAS		
Exo-1,7,7- trimethylbicyclo[2.2.1]hept-2-yl acrylate		
ISOBORNYL ACRYLATE		
INDEX	$13,5 \leq x < 15$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC	227-561-6	
CAS	5888-33-5	
Hexo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate		
[ISOBORNYL METHACRYLATE].		
INDEX	$8,5 \leq x < 10$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412
EC	201-204-4	
CAS	7534-94-3	
Methacrylic acid, monoester with propane 1,2-diol		
[HYDROXYPROPYL METHACRYLATE]		
INDEX	$8,5 \leq x < 10$	Eye Irrit. 2 H319, Skin Sens. 1 H317
EC	248-666-3	
CAS	27813-02-1	
Propylidinetrimethanol, ethoxylated, esters with acrylic acid		
[PEG-9 TRIMETHYLOLPROPANE TRIAACRYLATE]		
INDEX	$8,5 \leq x < 10$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 3 H412
EC	500-066-5	
CAS	28961-43-5	
ETHYLENE PHOSPHITE		
INDEX	$4 \leq x < 4,5$	Acute Tox. 3 H331
EC	213-569-7	ATE Inhalation mists/powders: 0,501 mg/l, ATE Inhalation vapours: 3 mg/l
CAS	983-80-2	
BIS-HEMA POLYNEOPENTYL GLYCOL ADIPATE/IPDI COPOLYMER		
INDEX	$4 \leq x < 4,5$	Eye Irrit. 2 H319, Skin Irrit. 2 H315
EC	810-131-2	

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

CAS 82339-16-0

ETHYLTRIMETHYLBENZOYL PHENYLPHOSPHINATE

INDEX $2 \leq x < 2,5$

Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1 H317

ATE Oral: 500 mg/kg

EC 282-810-6

CAS 84434-11-7

TRIMETHYLOLPROPANE TRIMETHACRYLATE

INDEX $2 \leq x < 2,5$

Aquatic Chronic 2 H411

EC 221-950-4

CAS 3290-92-4

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 advice:

Remove contaminated clothing.

Inhalation:

Take to fresh air. If short of breath, provide artificial respiration. If breathing is difficult, give oxygen. Contact a doctor.

Skin contact:

consult a doctor. Remove contaminated clothing and wash before reuse. Remove and destroy contaminated shoes. Rinse immediately with plenty of water.

Eye contact:

consult a doctor immediately. Immediately flush eyes with plenty of water for at least 15 minutes keeping eyes open.

Ingestion:

Do not INDUCE VOMITING. Rinse your mouth with water. Contact a doctor.

Rescuer protection

Information not available

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

Inhalation:

May cause nose and throat irritation. May cause irritation to the respiratory tract, causing breathing discomfort, irritation, headache or nausea.

Skin contact:

Causes skin sensitization and skin irritation. Swelling and redness of the skin, pain or irritation and dermatitis.

Eye contact:

Causes serious eye damage. Conjunctivitis, watery eyes, redness, pain, damage to the cornea and swelling of the eyes.

Ingestion:

Harmful if swallowed, abdominal pain.

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.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

Medium suitable fire extinguisher:

Water spray, foam, chemical powder, carbon dioxide.

Unsuitable media shutdown:

Full power water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products may include:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Other unidentified organic and inorganic substances.

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SECTION 5. Firefighting measures ... / >>

5.3. Advice for firefighters

Water can be ineffective in fighting fire. If water is used to cool closed containers to prevent pressure buildup, misting nozzles are preferred. Full protective gear, including self-contained breathing apparatus is required to protect firefighters from exposure to hazardous coating ingredients and hazardous decomposition products. During emergency conditions, overexposure to decomposition products can cause harm to health; symptoms may not be immediately apparent. Get medical help.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.
Ensure adequate ventilation.
Wear personal protective equipment.
Avoid breathing vapors and avoid contact with skin and eyes.
DO NOT ingest.

6.2. Environmental precautions

Do not allow to enter drains/surface water/groundwater.
Prevent further leaks or spills.
Toxic to aquatic life with long lasting effects.

6.3. Methods and material for containment and cleaning up

Dry with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Store in suitable, closed containers for disposal. Dispose of in accordance with local regulations

6.4. Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for more information on waste treatment.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Protective measures:
Avoid inhalation, contact with skin and eyes. DO NOT swallow the product.
I recommend in general
workplace hygiene:
Good industrial hygiene practices must be observed.
Provide sufficient air exchange and/or extraction in working environments.
Wash your hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Remove all contaminated clothing immediately.
The use of dispensing equipment is recommended to minimize the risk of skin or eye contact.
See also section 8 for further information on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

Storage
Store in a well-ventilated area. Keep containers (solvent resistant) closed when not in use.
Keep away from sources of ignition. Store in a clean, dry area. Store in accordance with local regulations. Store in the original container protected from direct sunlight in a dry, cool, 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 in an upright position to avoid leaks.
Do not store unlabeled containers.
Use an appropriate container to avoid environmental contamination.
The empty container may retain product residues (steam or liquid).

7.3. Specific end use(s)

Specific industrial sector
solutions:
The product is for professional use only.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

TRIMETHYLOLPROPANE TRIMETHACRYLATE

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								3.5 mg/m3
Skin								83 mg/kg bw/d

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.

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.

Protect your hands with gloves of the following type:

Material: Nitrile rubber (NBR)

Protective gloves resistant to chemical substance (EN 374).

Thickness: $\geq 0,4$ mm

Suitable materials for short -term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes of permeation time according to EN 374): nitrile rubber (nbr; > = 0.4 mm thick).

Breakthrough time: > 30 min

If you notice any signs of wear, the gloves should be replaced.

Material: Nitrile rubber (NBR)

Protective gloves resistant to chemical substance (EN 374).

Thickness: $\geq 0,4$ mm

Materials suitable for direct and prolonged contact (recommended: protection index 6, corresponding to > 480 minutes of permeation time according to EN 374): nitrile rubber (NBR; ≥ 0.4 mm thickness).

Breakthrough time: > 480 min

If you notice any signs of wear, the gloves should be replaced.

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).

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.

This information is based on literature references and information provided by glove manufacturers or is derived by analogy with similar substances. Please note that in practice the service life of chemically resistant protective gloves can be considerably shorter than the breakthrough time determined according to EN 374 as a result of multiple influencing factors (e.g. temperature). If you notice any signs of

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wear, the gloves should be replaced.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	various	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 100 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	not available	
Solubility	Insolubile in acqua. Solubile in solvente.	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	not available	
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Polymerization is possible.

10.4. Conditions to avoid

Sunlight, unclean conditions should be avoided during storage.

10.5. Incompatible materials

Do not store with polymerization initiators including peroxides, strong oxidizing agents. Peroxides, amines, sulfur compounds, heavy metal ions, alkalis and reducing 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

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

Hexo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
[ISOBORNYL METHACRYLATE].

STOT: Il prodotto non è classificato. Può causare irritazioni respiratorie

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:	>2000 mg/kg
ATE (Dermal) of the mixture:	Not classified (no significant component)

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

LD50 (Dermal):	> 3000 mg/kg Coniglio
LD50 (Oral):	5750 mg/kg Ratto

Hexo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
[ISOBORNYL METHACRYLATE].

LD50 (Dermal):	> 3000 mg/kg Coniglio
LD50 (Oral):	3,16 mg/kg Ratto

Methacrylic acid, monoester with propane 1,2-diol
[HYDROXYPROPYL METHACRYLATE]

LD50 (Dermal):	> 13200 mg/kg Coniglio
LD50 (Oral):	> 2000 mg/kg Ratto

Propylidinetrimethanol, ethoxylated, esters with acrylic acid
[PEG-9 TRIMETHYLOLPROPANE TRIAACRYLATE]

LD50 (Dermal):	> 13200 mg/kg Coniglio
LD50 (Oral):	> 2000 mg/kg Ratto

ETHYLENE PHOSPHITE

ATE (Inhalation mists/powders):	0,501 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)
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ATE (Inhalation vapours):	3 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)
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ETHYLTRIMETHYLBENZOYL PHENYLPHOSPHINATE

LD50 (Oral):	> 2000 mg/kg Ratto
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)

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TRIMETHYLOLPROPANE TRIMETHACRYLATE
LD50 (Oral): > 2000 mg/kg bw Ratto

SKIN CORROSION / IRRITATION

Causes skin irritation

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

Hexo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
[ISOBORNYL METHACRYLATE].
Irritating

BIS-HEMA POLYNEOPENTYL GLYCOL ADIPATE/IPDI COPOLYMER
Irritating to skin.

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

Exo-1,7,7- trimethylbicyclo[2.2.1]hept-2-yl acrylate
ISOBORNYL ACRYLATE
Category 2B (mildly irritating to eyes) according to GHS criteria.

Hexo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
[ISOBORNYL METHACRYLATE].
Slightly irritating.

Methacrylic acid, monoester with propane 1,2-diol
[HYDROXYPROPYL METHACRYLATE]
Category 2B (mildly irritating to eyes) according to GHS criteria.

Propylidinetrimethanol, ethoxylated, esters with acrylic acid
[PEG-9 TRIMETHYLOLPROPANE TRIAACRYLATE]
Irritating to eyes

BIS-HEMA POLYNEOPENTYL GLYCOL ADIPATE/IPDI COPOLYMER
Category 2B (eye irritant) according to GHS criteria.

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Exo-1,7,7- trimethylbicyclo[2.2.1]hept-2-yl acrylate
ISOBORNYL ACRYLATE
Category 1 (skin sensitization).
Species: mouse
Guideline: OECD Guideline 429 (Skin sensitization: local lymph node testing)

Skin sensitization

Methacrylic acid, monoester with propane 1,2-diol
[HYDROXYPROPYL METHACRYLATE]
Sensitizing.

Propylidinetrimethanol, ethoxylated, esters with acrylic acid
[PEG-9 TRIMETHYLOLPROPANE TRIAACRYLATE]
Indication of skin sensitization potential
Species: Guinea pig
Guidelines: OECD Guideline 406 (Skin sensitization)

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

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REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause respiratory irritation

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

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

May cause respiratory irritation.
Organs affected: Respiratory tract.
Route of exposure: Inhalation.

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 the aquatic organisms. In the long term, it has negative effects on the aquatic environment.

12.1. Toxicity

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

LC50 - for Fish	0,7 mg/l/96h Danio rerio
EC50 - for Algae / Aquatic Plants	1,98 mg/l/72h Pseudokirchneriella
Chronic NOEC for Crustacea	0,092 mg/l Daphnia magna

Hexo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
[ISOBORNYL METHACRYLATE].

LC50 - for Fish	1,79 mg/l/96h Danio rerio
EC50 - for Crustacea	> 2,57 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	2,28 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Crustacea	0,233 mg/l Daphnia magna

Propylidinetrimethanol, ethoxylated, esters with acrylic acid
[PEG-9 TRIMETHYLOLPROPANE TRIAACRYLATE]

LC50 - for Fish	1,95 mg/l/96h Danio rerio
EC50 - for Crustacea	70,7 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	2,2 mg/l/72h Pseudokirchneriella

ETHYLTRIMETHYLBENZOYL PHENYLPHOSPHINATE

EC50 - Daphnia - da 10 a 100 mg/l/48h

TRIMETHYLOLPROPANE TRIMETHACRYLATE

LC50 - for Fish	2 mg/l/96h Oncorhynchus mykiss - acquadolce
EC50 - for Crustacea	> 922 mg/l/48h Daphnia magna - acquadolce
Chronic NOEC for Fish	138 mg/l/32d Pimephales promelas - acquadolce
Chronic NOEC for Algae / Aquatic Plants	177 mg/l/72h Pseudokirchneriella subcapitata - acquadolce
EC50 - Activated sludge - fresh water - >1000 mg/l/3h	

12.2. Persistence and degradability

Information not available

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

No relevant bioaccumulation potential is expected for aquatic organisms and in sediments.

Hexo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
[ISOBORNYL METHACRYLATE].
BCF: 37 dimensionless

Propylidinetrimethanol, ethoxylated, esters with acrylic acid
[PEG-9 TRIMETHYLOLPROPANE TRIAACRYLATE]

The substance has a log Pow of 2.89 which is less than 3. It is therefore concluded that the substance has a low bioaccumulation potential

12.4. Mobility in soil

Exo-1,7,7- trimethylbicyclo[2.2.1]hept-2-yl acrylate
ISOBORNYL ACRYLATE
Koc at 20 °C: 3.71

Hexo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
[ISOBORNYL METHACRYLATE].
Average adsorption coefficient logKoc equal to 3.7.

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 \geq 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.

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

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

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not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

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:

None

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

Point 3

Contained substance

Point 75

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

not applicable

Substances in Candidate List (Art. 59 REACH)On the basis of available data, the product does not contain any SVHC in percentage \geq 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:

Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1

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Skin Sens. 1A	Skin sensitization, category 1A
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic 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
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
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.
H412	Harmful to aquatic life with long lasting effects.

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
- 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

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
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
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148

SECTION 16. Other information ... / >>

18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)
27. Delegated Regulation (UE) 2024/2564 (XXII Atp. CLP)
28. Regulation (EU) 2024/2865

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- 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.