

Safety Data Sheet

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

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

1.1. Product identifier

Code: REF 2512
Product name: SP23 Dreamer

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

Intended use: UV gel

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:

Flammable liquid, category 3	H226	Flammable liquid and vapour.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1A	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 words: Warning

Hazard statements:

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

REF 2512 - SP23 Dreamer

SECTION 2. Hazards identification ... / >>

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P370+P378	In case of fire: use . . . to extinguish.
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: 2-Hydroxyethyl methacrylate
polyurethane acrylate oligomer

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)
polyurethane acrylate oligomer		
INDEX	$70 \leq x < 74$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1A H317
EC		
CAS		
2-Hydroxyethyl methacrylate		
INDEX	$22,5 \leq x < 24$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: D
EC	212-782-2	
CAS	868-77-9	
Titanium dioxide		
INDEX	$2 \leq x < 2,5$	Carc. 2 H351, Aquatic Chronic 2 H411
EC	236-675-5	
CAS	13463-67-7	
ETHYL ACETATE		
INDEX	$2 \leq x < 2,5$	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	205-500-4	
CAS	141-78-6	
N-BUTYL ACETATE		
INDEX	$2 \leq x < 2,5$	Flam. Liq. 3 H226, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H336, Aquatic Chronic 3 H412, EUH066 STA Inhalation gas: 4500 ppm
EC	204-658-1	
CAS	123-86-4	
TPO		
INDEX	$1 \leq x < 1,5$	Repr. 2 H361f
EC	278-355-8	
CAS	75980-60-8	

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

Contact with eyes: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check and remove any contact lenses. Continue rinsing for at least 10 minutes. Consult a doctor.

Inhalation: Remove the victim to fresh air and keep him at rest in a position comfortable for breathing.

If he is not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by qualified personnel.

Mouth-to-mouth resuscitation can be dangerous for the person providing aid. Seek medical attention if adverse health effects persist or are severe. In case of loss of consciousness, place in recovery position and contact a doctor immediately. Keep the airway open. Loosen tight clothing such as collar, tie, belt.

SECTION 4. First aid measures ... / >>

Skin contact: Wash thoroughly with soap and water. Remove contaminated clothing and shoes.

Wash contaminated clothing thoroughly with water before removing or wearing gloves.

Continue rinsing for at least 10 minutes. Seek medical assistance. In case of complaints or symptoms, avoid further exposure. Wash clothing before reusing it. Clean your shoes thoroughly before using them again.

Ingestion: Rinse mouth with water. Remove any dentures. If the material has been swallowed and the exposed person is conscious, give small amounts of water to drink. Stop if the exposed person feels sick because vomiting can be dangerous. Do not induce vomiting unless directed by medical personnel. If vomiting occurs, the head should be kept low so that the vomit does not enter the lungs. Seek medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If she is unconscious, place her in the recovery position and seek medical attention immediately.

Keep the airway open. Loosen tight clothing such as collar, tie, belt or waist.

Protection of first aid workers: No action should be taken which involves personal risk or without adequate training. If the presence of fumes is suspected, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

It can be dangerous for the person providing aid to perform mouth-to-mouth resuscitation.

Wash contaminated clothing thoroughly with water before removing, or wear gloves.

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

Eye contact: Symptoms may be as follows:

Pain or irritation

Tearing

Redness

Inhalation: No data available.

Skin contact: Symptoms may be as follows:

Irritation

Redness

Ingestion: No data available.

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

Notes to physician: Treat symptomatically. Contact a poison treatment specialist immediately if large quantities have been ingested or inhaled.

SECTION 5. Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media: Use dry chemicals, CO₂, water spray or foam

Unsuitable extinguishing media: Do not use water jets.

5.2. Special hazards arising from the substance or mixture

Hazards arising from the substance or mixture: Flammable liquid and vapour. Runoff into sewers may create a fire or explosion hazard.

In the event of a fire or overheating, a pressure increase will occur and the container may burst with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged into waterways, sewers or drains.

Hazardous Combustion Products: Decomposition products may include the following materials:

carbon dioxide

carbon monoxide

metal oxide/oxides

5.3. Advice for firefighters

Special protective actions for firefighters: Promptly isolate the area by removing all people from the area of the accident in case of fire. No action shall be taken involving personal risk or without adequate training. Move containers from fire area if this can be done without risk.

Use water spray to keep containers exposed to fire cool.

Special protective equipment for firefighters: Firefighters must wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a face shield operating in positive pressure mode. Firefighter clothing (including helmets, protective boots and gloves) compliant with the European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: No action shall be taken involving any personal risk or without adequate training.

Evacuate surrounding areas. Prevent access to unnecessary and unprotected personnel. Do not touch or walk on spilled material. Avoid breathing vapors or mists. Provide adequate ventilation. Wear an appropriate respirator when ventilation is inadequate. Wear appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also what is reported in "For non-emergency personnel".

SECTION 6. Accidental release measures ... / >>**6.2. Environmental precautions**

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

6.3. Methods and material for containment and cleaning up

Small spill: stop leak if there is no risk. Move containers from spill area. Dilute with water and dry if water soluble. Alternatively, or if insoluble in water, absorb with dry inert material and place in a suitable container for waste disposal. Dispose of through a licensed waste disposal contractor.

Large spill: stop the leak if there is no risk. Move containers from spill area. Approaching release from windward. Prevent entry into sewers, waterways, basements or confined areas.

Wash spills at an effluent treatment plant or do the following. Contain and collect spillage with non-combustible absorbent material, e.g. sand, earth, vermiculite or diatomaceous earth and place them in a container for disposal according to local regulations. Dispose of through a licensed waste disposal contractor.

Contaminated absorbent material can pose the same hazard as spilled product.

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: Wear appropriate personal protective equipment (see Section 8). Persons with skin sensitization problems should not be employed in processes where this product is used. Do not get in eyes, on skin or clothing. Do not swallow.

Avoid breathing vapors or mist. Store in the original container or an approved alternative container

approved alternative, made of a compatible material and kept tightly closed when not in use.

Empty containers retain product residue and can be dangerous. Do not reuse the container.

General occupational hygiene advice: Eating, drinking and smoking are prohibited in areas where the material is handled, stored or processed. Workers must wash their hands and faces before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering food and beverage areas. See also Section 8 for further information on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

Shield UV light sources. Store in accordance with local regulations. Store in a separate, approved area. Keep in the original container away from direct sunlight, in a dry, cool and well-ventilated place, away from incompatible materials (see Section 10) and food and drink. Eliminate all sources of ignition. Separate from oxidizing materials.

Keep the container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to avoid leaks. Do not store in unlabeled containers. Use appropriate containment to avoid contamination of the environment. Consult Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Hazard criteria

Category: P5c

Notification and MAPP threshold: 5000 tonnes

Safety ratio threshold: 50000 tonnes

7.3. Specific end use(s)

Not available.

SECTION 8. Exposure controls/personal protection**8.1. Control parameters**

Regulatory references:

DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
ESP	España	Límites de exposición profesional para agentes químicos en España 2023
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU)

REF 2512 - SP23 Dreamer

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

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.
ACGIH 2023

TLV-ACGIH

N-BUTYL ACETATE

Threshold Limit Value

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

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		2 mg/kg bw/d		2 mg/kg bw/d				
Inhalation	300 mg/m3	300 mg/m3	35,7 mg/m3	12 mg/m3	600 mg/m3	600 mg/m3	300 mg/m3	48 mg/m3
Skin		6 mg/kg bw/d		3,4 mg/kg bw/d		11 mg/kg bw/d		7 mg/kg bw/d

Titanium dioxide

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
MAK	DEU	0,3		2,4		RESP	Hinweis	
VLA	ESP	10						
VLEP	FRA	10						
WEL	GBR	10				INHAL		
WEL	GBR	4				RESP		
TLV-ACGIH		0,2				RESP		

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 the terrestrial compartment	0,148	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				4,5 mg/kg bw/d				
Inhalation		734 mg/m3	367 mg/m3		1468	1468 mg/m3	734 mg/m3	

2-Hydroxyethyl methacrylate

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,83 mg/kg bw/d				
Inhalation				2,9 mg/m3				4,9 mg/m3
Skin				0,83 mg/kg bw/d				1,3 mg/kg bw/d

REF 2512 - SP23 Dreamer

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

TPO

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
Oral				0,0833 mg/kg bw/d				
Inhalation				0,145 mg/m3				0,822 mg/m3
Skin				0,0833 mg/kg bw/d				0,233 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.

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, failure time and permeability.

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.

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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

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.

N-BUTYL ACETATE

DO NOT dispose of in the sewer. DO NOT allow this chemical to contaminate the environment

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	Viola	
Odour	Characteristic. Acrylate smell	
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	37,8 < T < 61 °C	Remark: closed cup
Auto-ignition temperature	not available	
Decomposition temperature		

REF 2512 - SP23 Dreamer

SECTION 9. Physical and chemical properties ... / >>

pH	not available
Kinematic viscosity	not available
Dynamic viscosity	not available
Solubility	1500 to 6000 mPa·s
	Non soluble in acqua fredda, non soluble in acqua calda.
Partition coefficient: n-octanol/water	not available
Vapour pressure	<0.0013 kPa (<0.01 mm Hg)
Density and/or relative density	>1,1, <1,14
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 specific test data regarding reactivity is available for this product or its ingredients.

N-BUTYL ACETATE

Decomposes on contact with: water.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization may occur under certain storage or use conditions.

These could cause the product to polymerize exothermically. Inadvertent contact with them should be avoided.

N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents. May react dangerously with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals, hydrides, oleum. May react violently with: fluorine, strong oxidising agents, chlorosulphuric acid, potassium tert-butoxide. Forms explosive mixtures with: air.

10.4. Conditions to avoid

Avoid all possible sources of ignition (sparks or flames). Do not pressurize, cut, weld, braze, drill, grind, or expose containers to heat or sources of ignition.

N-BUTYL ACETATE

Avoid exposure to: moisture, sources of heat, naked flames.

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

10.5. Incompatible materials

Reactive or incompatible with the following materials:
oxidizing materials

N-BUTYL ACETATE

Incompatible with: water, nitrates, strong oxidants, acids, alkalis, zinc.

ETHYL ACETATE

Incompatible with: acids, bases, strong oxidants, chlorosulphuric acid.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, no hazardous decomposition products should be generated.

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

N-BUTYL ACETATE

Result: Eyes - Moderately irritating. Species: Rabbit. Exposure: 100 mg

Specific target organ toxicity (single exposure): category 3. Target organs: Narcotic effects.

Titanium dioxide

Result: Skin - Mild irritant, species: Human, exposure: 72 hours 300 ug l

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 - gas) of the mixture:

> 20000 mg/l

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

N-BUTYL ACETATE

LD50 (Dermal):

> 17600 mg/kg rabbit

LD50 (Oral):

10768 mg/kg rat

LC50 (Inhalation gas):

4000 ppm/4h rat

ETHYL ACETATE

LD50 (Dermal):

18000 mg/kg ratto o coniglio

LD50 (Oral):

5620 mg/kg ratt

LC50 (Inhalation mists/powders):

56 mg/l/4h ratto

2-Hydroxyethyl methacrylate

LD50 (Oral):

5050 mg/kg rat

Acute toxicity estimates

SP23 Dreamer: Inhalation (gas) 10214.3 ppm

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

REF 2512 - SP23 Dreamer

SECTION 11. Toxicological information ... / >>

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

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

ETHYL ACETATE

category 3. Target organs: Narcotic effects

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

12.1. Toxicity

N-BUTYL ACETATE

Acute LC50 32 mg/l Marine water Crustaceans - Artemia salina 48 hours

Titanium dioxide

Acute LC50 3 mg/l Fresh water Crustaceans - Ceriodaphnia dubia - Newborn 48 hours

Acute LC50 6.5 mg/l Fresh water Daphnia - Daphnia pulex - Newborn 48 hours

ETHYL ACETATE

LC50 - Pimephales promelas (cyprinid fish) - 220.00 - 250.00 mg / l - 96 h

Toxicity to daphnia and other aquatic invertebrates.

EC50 - Daphnia magna (Water flea) - 2,300.00 - 3,090.00 mg / l - 24 h

LC50 - Daphnia magna (Water flea) - 560 mg / l - 48 h

Toxicity to algae EC50 - No information available. - 4,300.00 mg / l - 24 h

EC50 - Selenastrum - 1,800.00 - 3,200.00 mg / l - 72 h

M factor = 1

C(E)L50 (mg/l) = 1

N-BUTYL ACETATE

LC50 - for Fish

18000 µg/l Fish - Pimephales promelas

Titanium dioxide

LC50 - for Fish

> 1000 mg/l/96h Fish - Fundulus heteroclitus

ETHYL ACETATE

LC50 - for Fish

> 350 mg/l/96h Oncorhynchus mykiss (trout iridea)

2-Hydroxyethyl methacrylate

LC50 - for Fish

227000 µg/l Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Wanling)

SECTION 12. Ecological information ... / >>**12.2. Persistence and degradability**

Titanium dioxide

Degradability: information not available

12.3. Bioaccumulative potential

N-BUTYL ACETATE

Partition coefficient: n-octanol/water 2,3 potential: low

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 potential: low

2-Hydroxyethyl methacrylate

Partition coefficient: n-octanol/water 0,42 potential: low

TPO

BCF 53 to 72, potential: low

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessmentOn 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.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

Product

Disposal methods: The generation of waste should be avoided or minimized wherever possible.

Disposal of this product, solutions and any by-products must always comply with the requirements of environmental protection and waste disposal legislation and the requirements of regional local authorities. Dispose of surplus and non-recyclable products through a licensed waste disposal contractor. Waste must not be disposed of untreated into sewers unless it fully complies with the requirements of all relevant authorities.

Hazardous waste: The classification of the product may meet the criteria for hazardous waste.

Packaging

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled.

Incineration or landfill should only be considered when recycling is not feasible.

Special Precautions: This material and its container must be disposed of safely. Caution should be exercised when handling emptied containers that have not been cleaned or rinsed.

Empty containers or containers may retain some product residue. Avoid dispersion and runoff of spilled material and contact with soil, waterways, drains and sewers.

SECTION 14. Transport information**14.1. UN number or ID number**

ADR / RID, IMDG, IATA: UN 1993

14.2. UN proper shipping nameADR / RID: FLAMMABLE LIQUID, N.O.S.
IMDG: FLAMMABLE LIQUID, N.O.S.
IATA: FLAMMABLE LIQUID, N.O.S.**14.3. Transport hazard class(es)**

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3

**14.4. Packing group**

ADR / RID, IMDG, IATA: III

14.5. Environmental hazardsADR / RID: NO
IMDG: NO
IATA: NO**14.6. Special precautions for user**

ADR / RID:	HIN - Kemler: 30 Special provision: 274, 601	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
IMDG:	EMS: F-E, S-E	Limited Quantities: 5 L	
IATA:	Cargo: Passengers: Special provision:	Maximum quantity: 220 L Maximum quantity: 60 L A3	Packaging instructions: 366 Packaging instructions: 355

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: P5cRestrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006Product

Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
not applicableSubstances in Candidate List (Art. 59 REACH)

TPO

REF 2512 - SP23 Dreamer

SECTION 15. Regulatory information ... / >>

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
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
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
STOT SE 3	Specific target organ toxicity - single exposure, category 3
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.
H361f	Suspected of damaging fertility.
H332	Harmful if inhaled.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
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
- 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

REF 2512 - SP23 Dreamer

SECTION 16. Other information ... / >>

- 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
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

- 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.