

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE

1.1. Product identifier

- Product name: EnhanceU-S
- INCI: Zinc Oxide, Titanium Dioxide, Silica.

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

Cosmetic raw material.

1.3. Details of the supplier of the safety data sheet

- Advanced Dispersed Particles S.L.
- C/Oro, 45 - nave 14- P.I.Sur; 28770 Colmenar Viejo (Spain).
- www.ad-particles.com
- technical@ad-particles.com

1.4. Emergency telephone number

Instituto Nacional de Toxicología * Madrid * Tel: 91 562 04 20

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

- Component:
 - * Zinc oxide (1314-13-2). Regulation (EC) No 1272/2008
 - Acute aquatic toxicity, Category 1 (H400).
 - Chronic aquatic toxicity, Category 1 (H410).
 - * Zinc oxide (1314-13-2). Classification according to Directive 67/548/CEE, 1999/45/EC
 - N; R50; R53.
 - N; R50; R53.

2.2. Label elements

- Component:
 - * Zinc oxide (1314-13-2). Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms:



Signal word:

Attention

Hazard indication:

H410

Hazard statements:

Prevention P273 – Avoid release to the environment.
Intervention P391 – Collect spillage.

Elimination P501 – Dispose contents/container in an approved waste disposal plant.

* Zinc oxide (1314-13-2). Labelling 67/548/EEC, 1999/45/EC

Symbol (s): N (hazardous for the environment)

2.3. Other hazards

Not available data.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>EINECS No</u>
Zinc oxide (68-72%)	1314-13-2	215-222-5
Titanium dioxide (22-25%)	13463-67-7	236-675-5
Silicon dioxide (4-6%)	7631-86-9	231-545-4

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

- General information: Remove the person out of dangerous area.
Never give anything by mouth to an unconscious person.
- After inhalation: Supply fresh air.
- After skin contact: Wash with water and soap and rinse thoroughly.
- After eye contact: Rinse out with plenty of water.
- After swallowing: Consult doctor if feeling unwell.
Prevent vomiting if possible.
If a person vomits when lying on his back, it must be turned aside.
Never give anything by mouth to an unconscious person.

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

No toxic symptoms known.

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

No information available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

- Suitable extinguishing media: Use sprayed water, alcohol-resistant foam, dry powder or carbon dioxide.
- Unsuitable extinguishing media: High volume water jet.

5.2. Special hazards arising from the substance or mixture

- Do not allow firefighting water to enter drains or watercourses.

5.3. Advice for firefighters

- In the event of fire, wear self-contained breathing apparatus.
- In the event of fire or explosion, do not breathe vapors.
- Sprayed water may be used to cool closed containers.
- Fire residues and contaminated firefighting water must be disposed of according to local regulations.
- Fire extinguishing water must be collected separately must not be discharged into drains.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions: Appropriated ventilation.

6.2. Environmental precautions

- Should not be released into the environment.
- Avoid subsoil penetration.
- Prevent further leakage or spillage if safe to do so.
- If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and materials for containment and cleaning up

- Cleaning up: Waste code number according to origin of waste.
Collect mechanically.
Contain spillage.
- Additional advice: Local authorities must be informed if important spillage cannot be contained.

6.4. Reference to other sections

See section 8 for information on personal protection equipment.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

- Advice: Dispose of rinse water according to national and local regulations.
See section 8 for information on personal protection equipment.
- Protection against explosions and fires: Do not smoke when using.

7.2. Conditions for safe storage, including any incompatibilities

- Technical requirements: Store in original container.
Keep container tightly closed in a dry and well ventilated place.
To maintain product quality, do not store in heat or direct sunlight.
- Common storage: No incompatible products.
- Other data: It does not decompose if storage and use as indicated.

7.3. Specific end uses

Those specified in section1.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

- Components:

*Titanium dioxide (13463-67-7)

WEL: Workplace Exposure Limit – 10 mg/m³
(8-hour TWA reference period):

8.2. Exposure controls

- Engineering measures: None.
- Breathing equipment: Use breathing protection with high concentrations. EN 149: FFP2.
- Hand protection: Use protective gloves for chemical protection, i.e. Polychloroprene level 2 or level 6 butylic rubber.
- Eye protection: Safety glasses.
- Body protection: Protective work clothing.
- Hygiene measures: Wash hands after working with substance.
- Protection measures: Do not eat, drink or smoke when handling substance.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- Form: Powder.
- Color: Whitish to white.
- Odor: Characteristic.
- Melting point: > 1800 °C
- Water solubility: No information available.
- Relative and apparent density: No information available.
- Vapor pressure: No information available.
- Boiling point: No information available.
- Partition coefficient: n-octanol/water: No information available.
- pH: No information available.
- Viscosity, dynamic: No information available.
- Viscosity, kinematic: No information available.
- Evaporation rate: No information available.
- Flammability (solid, gas): No information available.
- Ignition temperature: No information available.
- Minimum ignition energy: No information available.
- Lower explosion limit: No information available.
- Upper explosion limit: No information available.
- Solubility: No information available.
- Relative vapor density: No information available.

9.2. Other data

No information available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal use conditions.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

- Component:

* Titanium dioxide (13463-67-7)

Acute oral toxicity: LD50 rat: >10.000 mg/kg
Ocular irritation: Rabbit: no irritating to eye.

* Zinc oxide (1314-13-2)

Acute oral toxicity: LD50 rat: >10.000 mg/kg
Ocular irritation: Rabbit: no irritating to eye.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

- Component:

* Zinc oxide (1314-13-2)

Acute toxicity to fishes: CL0: 1.000 mb/L; Cachoelo (Leuciscus idus).
Toxicity to microorganisms: 500 mg/L; fluorescent pseudomonas.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

- Component:

* Zinc oxide (1314-13-2)

Very toxic to aquatic microorganism, with long lasting harmful effects.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment method

- Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations.
- Leave chemicals in original containers.
- No mixing with other waste.
- Handle uncleaned containers like the product itself.

SECTION 14: TRANSPORT INFORMATION

14.1. UN-Number

- Component:

* Zinc oxide (1314-13-2)

ADR:	3077
RID:	3077
IMDG:	3077
IATA-DGR:	3077

14.2. UN proper shipping name

- Component:

* Zinc oxide (1314-13-2)

ADR:	Environmentally hazardous substance, solid, N.O.S. (Zinc oxide).
RID:	Environmentally hazardous substance, solid, N.O.S. (Zinc oxide).
IMDG:	Environmentally hazardous substance, solid, N.O.S. (Zinc oxide).
IATA-DGR:	Environmentally hazardous substance, solid, N.O.S. (Zinc oxide).

14.3. Transport hazard classe(es)

- Component:

* Zinc oxide (1314-13-2)

ADR:	9
RID:	9
IMDG:	9
IATA-DGR:	9

14.4. Packing group

- Component:

* Zinc oxide (1314-13-2)

ADR:	
Packing group:	III
Classification Code:	M7
Hazard identification No:	90
Label:	9
Tunnel restriction code:	(E)

RID:	
Packing group:	III
Classification Code:	M7
Hazard identification No:	90
Label:	9

IMDG:	
Packing group:	III
Label:	9
EmS - EmS:	F-A, S-F

IATA-DGR:	
Packing instructions: (Freight plane)	956
Qty/Pkg (Cargo):	400,00 KG
Packing instructions: (Passenger plane)	956
Qty/Pkg (Passenger):	400,00 KG
Label:	9MI

14.5. Environmental hazards

- Component:

* Zinc oxide (1314-13-2)

ADR:	Environmentally hazardous: Yes
------	--------------------------------

RID: Environmentally hazardous: Yes
IMDG: Marine pollutant: Yes
IATA-DGR: Environmentally hazardous: Yes

14.6. Special precautions for users

No information available.

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

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

- Component:

* Zinc oxide (1314-13-2)

National legislation:

Hazard classification: Not applicable.
El BetrSichV (Germany)

Pollutant classification: WGK 2 (water pollutant) 2187 VwVwS Allegato 3.
Water (Germany)

15.2. Chemical Safety Assessment

No information available.

SECTION 16: OTHER INFORMATION

The information on this Safety Data Sheet is based on our present knowledge. This information is a guide for the safety on handling, use, processing, storage, transport and disposal, and shall not be considered as a guarantee or quality specification. This information refers only to the material specified and is not valid for this material combined with other substances or processes.

Product development Based on CSIC licensed.