

Material Safety Data Sheet – TELIKA_SA

1. Chemical Product and Company Identification

A. Product Name: TELIKA_SA

B. Product Recommended Use & Usage Limits

Recommended Use:

Used as cosmetics sunscreen and makeup powder

C. Company Identification/ Supplier/Distributor Information

Supply Company Name: Taekyung SBC Co., Ltd.

Address in Korea : 258,Sandandongseo-ro, Gunsan-si, Jeallabuk-do

Information providing service or urgent contact: 82-63-463-3041

2. Hazards Identification

A. GHS classification

Carcinogenicity : Category 2

Hazardous to the aquatic environment-chronic toxicity : Category 3

B. Warning label items, including precautionary statements

Pictogram



Signal word

Warning

Hazard statements

H351 Suspected of causing cancer.

Harmful to aquatic life with long lasting effects.

Precautionary Statement

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P273 Do not discharge into the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P308 + P313 If you are exposed or concerned about exposure, seek medical attention / advice.

Storage

P405 Store in a locked place.

Disposal

P501 Dispose of contents container (according to the description in the related regulation).

C. HAZARDS NOT INCLUDED IN GHS CLASSIFICATION (NFPA RATING)

No data

3. Composition

Chemical Name	CAS Number	Contents (%)
Titanium dioxide	13463-67-7	78 - 84
Aluminum hydroxide	21645-51-2	8 - 12
Stearic acid	57-11-4	8 - 12

Note : The figures shown above are not the specifications of the product.

This grade is a nano-object having a length scale of approximately one to one hundred nanometers in any dimension, or a nanostructured material which is consist of nano-object.

4. First aid measures

A. IF IN EYES :

Get medical advice/attention.

Immediately wash skin and eyes with running water for more than 20 minutes upon contact with material.

B. IF ON SKIN

Get urgent medical attention.

Remove contaminated clothing and shoes and isolate contaminated areas

Immediately wash skin and eyes with running water for more than 20 minutes upon contact with material.

Prevent the spread of contaminants on minor skin contact

C. IF INHALED

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

Do not vomit.

Call a POISON CENTER or doctor/physician if you feel unwell.

D. IF SWALLOWED

If swallowed, immediately consult a medical institution (doctor).

Do not vomit.

Call a POISON CENTER or doctor/physician.

E. NOTE TO PHYSICIAN

Make sure that medical personnel are aware of the substance and take protective measures.

5. Fire-fighting Measures

A. Suitable extinguishing media

alcohol foam, carbon dioxide, or water spray, dry sand or soil

B. SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Decomposition at high temperature can produce toxic gas

Containers may explode when heated

Some can burn, but do not ignite easily

Non-flammable, the material itself does not burn, but decomposes upon heating, which may lead to corrosion/toxicity

C. SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

wears proper protection, Extinguish the area by maintaining a safe distance.

Dig the trench to dispose of fire extinguishing water and keep the material from scattering.

Move containers from fire area if it is not dangerous.

In case of tank fire, extinguish at maximum distance or use unmanned fire extinguishing Equipment.

Cool containers with plenty of water even after digestion has evolved.

Immediately withdraw if there is a high tone or discoloration of the tank from the pressure release device.

Step back from the flame-stricken tank.

For large-scale fires, use unmanned fire extinguishing equipment and, if not possible, take it back and burn it. Leave

6. Accidental Release Measures**A. Personnel precautions, protective equipment and emergency procedures**

Immediately wipe spills and follow precautions in protective equipment.

Eliminate all ignition sources.

Stop leak if not dangerous.

Do not touch damaged containers or leaks without wearing appropriate protective clothing.

Cover with plastic sheet to prevent spreading.

Prevent dust formation.

Pay attention to materials and conditions to avoid.

B. Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Do not discharge into the environment.

C. Methods and materials for neutralization, containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

Absorb liquid and wash contaminated areas with detergent and water.

Collect spillage.

In case of powder leakage, cover it with a plastic sheet to prevent diffusion and keep it dry.

For small spills, absorb with sand, non-combustible material and place in container.

7. Handling & Storage**A. Precautions for safe handling**

Do not handle until all safety precautions have been read and understood.

Follow the precautions of MSDS/Label after the containers are emptied.

Pay attention to using and storage.

Open the cap carefully before opening.

Do not breathe vapors from heated material.

Do not enter the storage area without adequate ventilation.

Pay attention to materials and conditions to avoid and high temperature.

B. Conditions for safe storage

Store in a locked storage area.

Empty drums should be completely drained and properly blocked to immediately return them to the drum adjuster or Place it.

8. Exposure control & Personal protection

A. Occupational exposure limits

Korea

TWA 10mg/m³ Carcinogenicity 2 (Titanium dioxide)

ACGIH

TWA 10 mg/m³ (Titanium dioxide)TWA 1 mg/m³ (Aluminum hydroxide)

B. Engineering measures

Local and/or general ventilation is recommended.

C. Individual protection measures

Respiratory protection

Wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

Skin and body protection

No special protection required.

9. Physical & Chemical Properties

Physical properties

Appearance : powder/granule

Color : white

Odor : None

pH : Not applicable

Phase change temperature

Melting point/Freezing point : 1820 - 1850°C

Specific gravity/Density : 3.5 - 4.2 g/cm³

Solubility in water : insoluble

10. Stability & Reactivity

A. Chemical Stability

Decomposition at high temperature can produce toxic gas.

Containers may explode when heated.

Some can burn, but do not ignite easily.

Non-flammable, the material itself does not burn, but decomposes upon heating, which may lead to corrosion/toxicity.

B. Condition to avoid

Ignition source like heat, spark

C. Incompatible materials

Flammable and restoring material

D. Hazardous decomposition products

Toxic gas

11. Toxicological Information**A. Information on the likely routes of exposure**

Irritation, difficulty breathing (Stearic acid)

B. Delayed and immediate effects and also chronic effects from short and long term exposure

Acute toxicity

Oral toxicity component(s) data

Titanium dioxide LD50 > 2000 mg/kg. mouse (OECD TG 420)

Aluminum hydroxide LD50 > 2000 mg/kg rat

Stearic acid LD50 4600 mg/kg rat

Skin corrosion/Irritation component(s) data

Stearic acid LD50 > 5000 mg/kg Rabbit

Respiratory

Titanium dioxide powder LC50 3.43 mg/ℓ rat (OECD TG 403)

Aluminum hydroxide, mist LC50 7.6 mg/ℓ 1 hr Rat

Skin Sensitization

Stearic acid (Solid) may cause irritation

Carcinogenic effects

IARC No Information

NTP No Information

OSHA No Information

WISHA No Information

ACGIH No Information

Germ Cell Mutagenicity

No data

Reproductive Toxicity

No data

Specific Target Organ Toxicity - Repeated Exposure

May cause damage to organs through prolonged or repeated exposure

Aspiration Hazard

No data.

12. Ecological Information

A. Ecotoxicity

Aquatic toxicity

Fish

Titanium dioxide LC50 > 100 mg/l 96 hr *Carassius auratus* (OECD Guideline 203)

Aluminum hydroxide NOEC > 50 mg/l 96 hr *Ictalurus punctatus*

Shellfish

Titanium dioxide LC50 > 500 mg/l 48 hr *Daphnia magna*

Aluminum hydroxide NOEC > 22.6 mg/l 96 hr

Algae

Titanium dioxide EC50 > 50 mg/l 72 hr *Selenastrum capricornutum*

Aluminum hydroxide EC10 0.153 mg/l 72 hr

B. Persistence and degradability

Aluminum hydroxide 01 -0.5304 log Kow

Stearic acid log Kow 8.23

C. Bioaccumulative potential

No data

13. Disposal Consideration

A. Disposal methods

Dispose of contents/container in accordance with local/national regulation

B. Precautions

No data.

14. Transport information

A. UN NUMBER	Not regulated
B. PROPER SHIPPING NAME	Not regulated
C. TRANSPORTATION HAZARD CLASS(ES)	Not regulated
D. PACKING GROUP, IF APPLICABLE	Not regulated
E. ENVIRONMENTAL HAZARD	Not regulated
F. SPECIAL PRECAUTIONS FOR USER	No data available

15. Regulatory information**A. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS**

Korea Not regulated

US Federal

OSHA Not regulated

CERCLA Not regulated

EPCRA 302 Not regulated

EPCRA 304 Not regulated

EPCRA 313 Not regulated

Rotterdam Convention(PIC) Not regulated

Stockholm Convention (POPs) Not regulated

Montreal Protocol Not regulated

EU

Labeling Not regulated

Hazard Symbols Not regulated

Risk phrase Not regulated

Safety phrase Not regulated

16. Other Information/References**A. Reference Book**

Globally Harmonized System of classification and labelling of chemicals, (3rd ed., 2009), UN

SDS & Labelling guide book (rev. 1st ed., Mar 2007), JPMA

Recommendations on the TRANSPORT OF DANGEROUS GOODS 16th edit. UN

Classification, labelling and packaging of substances and mixtures (reg.(EC) No 1272/2008)

2008 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

2009 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/monoeval/grlist.html>

JIS Z 7250 2005

Supplier's SDS

NITE; http://www.safe.nite.go.jp/japan/sougou/view/SystemTop_jp.faces

JCDB ezCRIC

B. Other information

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The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.