

물질안전보건자료

(Material Safety Data Sheet)

product name	HANSAN Standard Silica Series (HS-3, HS-5, HS-6, HS-9, HS-6-250)
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1. Information on chemical products and companies

A. product name HANSAN Standard Silica Series (HS-3, HS-5, HS-6, HS-9, HS-6-250)

B. Recommended use of the product and restrictions on use

Recommended use of the product Cosmetic Ingredient (Texturizing agent, Sebum Control, Matte Finish)

Restrictions on use of the product

C. Supplier information (in the case of imported products, provide information on domestic suppliers that can be contacted urgently)

Company Name HANSAN

address 34-74, Tancheon Industrial Complex-gil, Tancheon-myeon, Gongju-si, Chungnam

Emergency phone number no data

2. Hazards and dangers

A. Classification of hazards and risks

B. Warning label items including precautionary statements

Pictogram

Hazard statements

Precautionary Statement

prevention Do not breathe P260 (dust/fume/gas/mist/vapours/spray).

Response P314 Get medical advice/attention if you feel unwell.

Storage Store in a cool, dry place

Disposal It should comply with local, state, or national environmental regulations when it is disposed of.

C. Other hazards and risks not included in the criteria for classification of hazards and risks (NFPA)

Health 1

fire 0

Reactive 0

3. Name and content of ingredients

Substance name HANSAN Standard Silica Series (HS-3, HS-5, HS-6, HS-9, HS-6-250)

Synonyms (common name) SILICA

CAS number 7631-86-9

content(%) 100%

4. First aid measures

A. When it gets into your eyes Get emergency medical attention

In case of contact with material, immediately flush skin and eyes with running water for at least 20 minutes.

B. When it comes into contact with the skin If you feel unwell, seek medical advice/attention.

Remove contaminated clothing and shoes and isolate contaminated area

In case of contact with material, immediately flush skin and eyes with running water for at least 20 minutes.

Prevent spread of contaminated area in case of minor skin contact

C. When inhaled If you feel unwell, seek medical advice/attention.

Move to fresh air

If not breathing, give artificial respiration.

If breathing is difficult, give oxygen

Keep it warm and calm

D. Ingestion If you feel unwell, seek medical advice/attention.

E. Other doctor's notes Make sure medical personnel are aware of the substance and take protective measures.

5. How to deal with explosions and fires

A. Suitable (inappropriate) extinguishing agent	Use alcohol foam, carbon dioxide or water spray for extinguishing involving this material. Use dry sand or soil for smothering
B. Specific hazards arising from chemicals	Can be decomposed at high temperatures to produce toxic gases Container may explode when heated Some can burn but do not ignite easily Non-flammable, the material itself does not burn, but it may decompose when heated to generate corrosive/toxic fumes.
C. Protective equipment and precautions to be worn when fighting fire	Extinguish the area and keep it at a safe distance. Please note that it may melt and be transported. Dig a ditch for the disposal of fire extinguishing water and keep it from scattering the material. Move containers from fire area if it is not dangerous In case of tank fire, extinguish from maximum distance or use unmanned fire extinguishing equipment. In case of a tank fire, cool containers with plenty of water even after extinguishing has extinguished. In case of a tank fire, if there is a sound from the pressure relief device or the tank discolors, withdraw immediately. In the event of a tank fire, get out of the tank in flames. In case of a tank fire, in case of a large fire, use unmanned fire extinguishing equipment and, if not possible, leave to burn.

6. How to deal with a leakage accident

A. Measures and protective equipment necessary to protect the human body	Do not breathe (dust/fume/gas/mist/vapours/spray). Wipe up spills immediately and follow precautions in the protective equipment section. Eliminate all sources of ignition Stop leak if it is not dangerous Do not touch damaged containers or spills without wearing appropriate protective clothing. Cover with plastic sheet to prevent spread Be aware of substances and conditions to avoid
B. Measures necessary to protect the environment	Prevent entry into waterways, sewers, basements and confined spaces
C. How to cleanse or remove	Absorb the spill with an inert material (eg dry sand or dirt) and place in a chemical waste container. Absorb liquid and flush contaminated area with detergent and water.

7. Handling and storage

A. Safe handling tips	Do not breathe (dust/fume/gas/mist/vapours/spray). Follow all MSDS/label precautions as product debris may remain after the container is emptied. Be aware of substances and conditions to avoid Work with reference to engineering controls and personal protective equipment
B. Safe storage method	Empty drums should be completely drained and properly closed and immediately returned to drum regulator or placed properly.

8. Exposure prevention and personal protective equipment

A. Exposure standards for chemical substances, biological exposure standards, etc.	
Domestic regulations	TWA-10mg/m ³ silicon oxide (amorphous diatomaceous earth)
ACGIH regulations	no data
Biological exposure limits	no data
Other exposure standards	no data
B. Appropriate engineering controls	Use process isolation, local exhaust, or other engineering controls that control air levels below exposure limits.
C. Personal protective equipment	
Respiratory protection	Silicon oxide (amorphous diatomaceous earth) Wear respiratory protective equipment certified by the Korea Occupational Safety and Health Agency that matches the physicochemical properties of the exposed particulate

If the exposure concentration is lower than 100mg/m³, wear a respirator fitted with an appropriate type of filter.

If the exposure concentration is lower than 250mg/m³, wear a loose-fitting hood/helmet-type electric respirator or continuous flow dust mask with an appropriate type of filter.

If the exposure concentration is lower than 500mg/m³, wear a full-face type or motorized type or air-supplied type continuous flow type/pressure-requiring type half-

If the exposure concentration is lower than 10000mg/m³, wear a full face type, helmet/hood type, pressure-requiring air mask with an appropriate filter.

If the exposure concentration is lower than 100000mg/m³, wear a self-air supply (SCBA) or pressure-required self-air supply (SCBA) respirator equipped with an

Eye protection
Wear breathable goggles to protect your eyes from particulate matter that may cause eye irritation or other health hazards.

Install emergency washing facilities (shower type) and face-wash facilities in a location where workers can easily access.

Hand protection
Wear appropriate protective gloves in consideration of the physical and chemical properties of chemical substances.

Body protection
Wear appropriate protective clothing in consideration of the physical and chemical properties of the chemical.

9. Physical and chemical properties

A. Exterior	
Appearance	solid
color	White
B. odor	Odorless
C. Odor threshold	no data
D. pH	6.5-7.5 (4% dispersion)
E. Melting point/freezing point	> 1600 °C
F. Initial boiling point and boiling range	> 2230 °C
G. flash point	no data
H. Evaporation rate	no data
I. Flammability (solid, gas)	no data
J. Upper/lower flammability or explosive limits	-/-
K. Vapor pressure	no data
L. Solubility	no data
M. Vapor density	no data
N. Specific Gravity	2.19-2.66
O. n-octanol/water partition coefficient	no data
P. Auto-ignition temperature	no data
Q. Decomposition temperature	no data
R. Viscosity	no data
S. Molecular Weight	60.09

10. Safety and Reactivity

A. Chemical stability and potential for hazardous reactions	Can be decomposed at high temperatures to produce toxic gases Container may explode when heated Some can burn but do not ignite easily Non-flammable, the material itself does not burn, but it may decompose when heated to generate corrosive/toxic fumes.
B. Conditions to avoid	Ignition sources such as heat, sparks, and flames
C. Substances to avoid	Combustible material, reducing material
D. Hazardous substances generated during decomposition	Corrosive/toxic fumes Irritating, corrosive and toxic gases

11. Toxicological information

A. Information on the likely routes of exposure	no data
B. Health Hazard Information	
Acute toxicity	
oral-	LD50 5000 mg/kg Rat
Transdermal	LD50 > 2000 mg/kg Rabbit
inhale	Dust LC50 > 5.2 mg/l 4 hr Rat
Skin corrosion or irritation	eye irritation
Severe eye damage or irritation	no data

Respiratory sensitization	–
Skin sensitization	No skin sensitization
Carcinogenicity	
Industrial Safety and Health Act	no data
Ministry of Employment and Labor Notification	no data
IARC	3
OSHA	no data
ACGIH	no data
NTP	no data
EU CLP	no data
Germ cell mutagenicity	no data
Reproductive toxicity	no data
Specific target organ toxicity (single exposure)	no data
Specific target organ toxicity (repeated exposure)	Increased number of red and white blood cells, neutrophils. Swelling of the lungs and enlarged mediastinal lymph nodes. Increased lung weight and collagen content in the
Aspiration hazard	no data
Other adverse effects	no data

12. Environmental impact

A. Ecotoxicity	
Fish	LC50 5000 mg/l 96 hr
shellfish	LC50 7600 mg/l 48 hr
Birds	EC50 440 mg/l 72 hr
B. Persistence and degradability	
Persistence	log Kow 0.53
Degradability	no data
C. Bioaccumulative	
Bioaccumulation	BCF 3.162
Biodegradable	no data
D. Soil mobility	
	no data
E. Other adverse effects	
	no data

13. Precautions for disposal

A. Disposal method	If specified in the Waste Management Act, dispose of contents and containers according to regulations.
B. Caution for disposal	Dispose of the contents container (according to the contents specified in the relevant laws and regulations).

14. Information required for transport

A. UN No.	There is no information on the classification of dangerous substances for transport
B. Proper shipping name	Not applicable
C. Transport hazard class	Not applicable
D. Container grade	Not applicable
E. Marine pollutant	no data
F. Special safety measures that the user needs or needs to know about transport or means of transport	
Emergency measures in case of fire	Not applicable
Emergency measures in case of spill	Not applicable

15. Status of legal regulations

A. Regulation by the Industrial Safety and Health Act	Work environment measurement target material (measurement cycle: 6 months) Substances subject to special health examination (diagnosis cycle: 24 months) Substances for setting exposure limits
B. Regulation by the Chemical Substance Control Act	Not applicable
C. Regulation by the Dangerous Goods Safety Management Act	Not applicable
D. Regulation by the Waste Management Act	Designated waste
E. Regulations by other domestic and foreign laws	

Domestic regulation	
Persistent Organic Pollutant Management Act	Not applicable
Overseas regulation	
US Management Information (OSHA Regulation)	Not applicable
US management information (CERCLA regulations)	Not applicable
US Management Information (EPCRA 302 Regulation)	Not applicable
US Management Information (EPCRA 304 Regulation)	Not applicable
U.S. Administrative Information (EPCRA 313 Regulation)	Not applicable
US Management Information (Rotterdam Convention Substances)	Not applicable
US Management Information (Stockholm Convention Substance)	Not applicable
US Management Information (Montreal Protocol Substance)	Not applicable
EU classification information (confirmed classification result)	Not applicable
EU classification information (danger phrases)	Not applicable
EU classification information (safety statement)	Not applicable

16. Other notes

A. Source of data

TOMES: HAZARDTEXT (oral)

(IUCLID) (dermal)

(IUCLID) (inhalation)

(IUCLID) (skin corrosion or irritation)

(SIDS) (Skin Sensitization)

IUCLID (specific target organ toxicity (repeated exposure))

IUCLID (fish)

IUCLID (crustacean)

IUCLID (bird)

B. Initial writing date

2026-01-13

C. Number of revisions and date of last revision

Number of revisions

3times

Last revision date

0

D. Other