

SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

- A. GHS product identifier : Twinone™ SS-1000
- B. Recommended use of the chemical and restrictions on use
Recommended use : Cosmetic
Restrictions on use : Not available
- C. Manufacturers
Company name CQV Co., Ltd.
Address 144, Seongjung-Ro, Jincheon-Eup, Jincheon-Gun, Chungbuk-Do, Korea
Emergency phone number 82-43-531-2500
Respondent Byung-Ki Choi
Fax 82-43-536-0314

2. Hazards identification

- A. GHS classification of the substance/mixture
Not classified
- B. GHS label elements, including precautionary statements
Pictogram and symbol : Not applicable
Signal word : Not applicable
Hazard statements : Not applicable
Precautionary statements
Precaution : Not applicable
Treatment : Not applicable
Storage : Not applicable
Disposal : Not applicable
- C. Other hazard information not included in hazard classification (NFPA)
Health : Not available
Flammability : 1
Reactivity : Not available

3. Composition/information on ingredients

Chemical Name (INCI Name)	CAS number	EC number	Content (%)
Polymethylsilsesquioxane	68554-70-1	614-610-5	100

4. First aid measures

- A. Eye contact
- In case of contact with substance, immediately flush eyes with running water at least 20 minutes.
- B. Skin contact
- In case of contact with substance, immediately flush skin with running water at least 20 minutes.
- Remove and isolate contaminated clothing and shoes.
- Wash contaminated clothing and shoes before reuse.

- Get immediate medical advice/attention.

C. Inhalation

- Specific medical treatment is urgent.
- Move victim to fresh air.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.

D. Ingestion

- Do not let him/her eat anything, if unconscious.
- Get immediate medical advice/attention.

E. Indication of immediate medical attention and notes for physician

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5. Fire fighting measures

A. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media: Dry sand, dry chemical, alcohol-resistant foam, water spray, regular foam, CO₂
- Unsuitable extinguishing media: High pressure water streams

B. Specific hazards arising from the chemical

- May be ignited by heat, sparks or flames.
- Containers may explode when heated.
- Some of these materials may burn, but none ignite readily.
- Fire will produce irritating and/or toxic gases.
- If inhaled, may be harmful.

C. Special protective equipment and precautions for fire-fighters

- Dike fire-control water for later disposal; do not scatter the material.
- Move containers from fire area if you can do it without risk.
- Fire involving Tanks: Cool containers with flooding quantities of water until well after fire is out.
- Fire involving Tanks: Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- Fire involving Tanks: Always stay away from tanks engulfed in fire.

6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

- Eliminate all ignition sources.
- Stop leak if you can do it without risk.
- Please note that materials and conditions to avoid.
- Ventilate the area.
- Do not touch or walk through spilled material.
- Prevent dust cloud.

B. Environmental precautions and protective procedures

- Prevent entry into waterways, sewers, basements or confined areas.

C. The methods of purification and removal

- Small Spill; Flush area with flooding quantities of water. And take up with sand or other non-combustible absorbent material and place into containers for later disposal.
- Large Spill; Dike far ahead of liquid spill for later disposal.
- With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

7. Handling and storage

A. Precautions for safe handling

- Please note that materials and conditions to avoid.
- Wash thoroughly after handling.
- Please work with reference to engineering controls and personal protective equipment.
- Be careful to high temperature.

B. Conditions for safe storage

- Store in a closed container.
- Store in cool and dry place.

8. Exposure controls/personal protection

A. Occupational Exposure limits

- Korea regulation : Not available
- ACGIH regulation : Not available
- Biological exposure index : Not available
- OSHA regulation : Not available
- NIOSH regulation : Not available
- EU regulation : Not available
- Other : Not available

B. Appropriate engineering controls

- Provide local exhaust ventilation system or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

C. Personal protective equipment

Respiratory protection

- Wear NIOSH or European Standard EN 149 approved full or half face piece (with goggles) respiratory protective equipment when necessary.
- In case exposed to particulate material, the respiratory protective equipments as follow are recommended. ;facepiece filtering respirator or air-purifying respirator, high-efficiency particulate air(HEPA) filter media or respirator equipped with powered fan, filter media of use(dust, mist, fume)
- In lack of oxygen(< 19.5%), wear the supplied-air respirator or self-contained breathing apparatus.oxygen

Eye protection

- Wear facepiece with goggles to protect.
- An eye wash unit and safety shower station should be available nearby work place.
- Wear breathable safety goggles to protect from particulate material causing eye irritation or other disorder.
- An eye wash unit and safety shower station should be available nearby work place.

Hand protection

- Wear chemical resistant gloves.
- Wear appropriate protective gloves by considering physical and chemical properties of chemicals.

Body protection

- Wear appropriate protective chemical resistant clothing.
- Wear appropriate protective clothing by considering physical and chemical properties of chemicals.

9. Physical and chemical properties

- A. **Appearance**
Description : Powder
Color : White
- B. **Odor** : No odor
- C. **Odor threshold** : Not available
- D. **pH** : 6 – 9
- E. **Melting point/freezing point** : Not available
- F. **Initial boiling point and boiling range** : Not available
- G. **Flash point** : > 121 °C
- H. **Evaporation rate** : Not available
- I. **Flammability (solid, gas)** : Not available
- J. **Upper/lower flammability or explosive limits** : Not available
- K. **Vapor pressure** : Not available
- L. **Solubility (ies)** : Not available
- M. **Vapor density** : Not available
- N. **Specific gravity** : 1.08 g/cm³
- O. **Partition coefficient: n-octanol/water** : 3.04
- P. **Auto ignition temperature** : Not available
- Q. **Decomposition temperature** : Not available
- R. **Viscosity** : Not available
- S. **Molecular weight** : Not available

10. Stability and reactivity

- A. **Chemical stability and Possibility of hazardous reactions:**
– If inhaled, may be harmful.
- B. **Conditions to avoid:**
– Heat, sparks or flames
- C. **Incompatible materials:**
– Combustibles
- D. **Hazardous decomposition products:**
– Not available

11. Toxicological information

- A. **Information of Health Hazardous**
- Acute toxicity**
Oral : Not available
Dermal : Not available
Inhalation : Not available
- Skin corrosion/ irritation** : Not available
- Serious eye damage/ irritation** : Not available
- Respiratory sensitization** : Not available
- Skin sensitization** : Not available
- Carcinogenicity** : Not classified
- Mutagenicity** : Not available
- Reproductive toxicity** : Not available
- Specific target organ toxicity (single exposure)** : Not available
- Specific target organ toxicity (repeat exposure)** : Not available
- Aspiration Hazard** : Not available

12. Ecological information

A. Ecological toxicity

– **Acute toxicity** : Not classified

– **Chronic toxicity** : Not classified

Fish : 96hr-LC₅₀ (*Fish*) = 4527.346 mg/L (ECOSAR Class:Neutral Organics)

crustacean : Not available

Algae : 96hr-EC₅₀ (*Green Algae*) = 1061.705 mg/L (ECOSAR Class:Neutral Organics)

B. Persistence and degradability

Persistence : Low persistency (log Kow is less than 4 estimated.) (Log Kow = 0.76) (estimated)

Degradability : Not available

C. Bioaccumulative potential

Bioaccumulation : Bioaccumulation is expected to be low according to the BCF < 500 (BCF = 3.162) (estimated)

Biodegradation : not readily biodegradable (estimated)

D. Mobility in soil

No potency of mobility to soil. (Koc = 4.563) (estimated)

E. Other hazardous effect

Not available

F. HAZARDOUS TO THE OZONE LAYER

Not applicable

13. Disposal considerations

A. Disposal method

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

B. Disposal precaution

Consider the required attentions in accordance with waste treatment management regulation.

14. Transport information

A. UN Number

Not applicable

B. UN Proper shipping name

Not applicable

C. Transport Hazard class

Not applicable

D. Packing group

Not applicable

E. Marine pollutant

Not applicable

F. IMDG/IATA/ICAO

Not applicable

G. Special precautions

in case of fire : Not applicable

in case of leakage : Not applicable

15. Regulatory information

① KOREA Regulatory information

A. **Occupational Safety and Health Regulation** : Not regulated

B. **Chemical Control Act** :

Existing Chemical Substance KE-31248

C. **Dangerous Material Safety Management Regulation** : Not regulated

D. **Wastes Control Act** : Not regulated

E. Other regulation (internal and external)

Internal information

Persistent Organic Pollutants Acts : Not regulated

② Foreign Regulatory Information

External information

EU classification(classification) : Not regulated

EU classification(risk phrases) : Not regulated

EU classification(safety phrases) : Not regulated

EU SVHC list : Not regulated

EU Authorisation List : Not regulated

EU Restriction list : Not regulated

U.S.A management information (OSHA Regulation) : Not regulated

U.S.A management information (CERCLA Regulation) : Not regulated

U.S.A management information (EPCRA 302 Regulation) : Not regulated

U.S.A management information (EPCRA 304 Regulation) : Not regulated

U.S.A management information (EPCRA 313 Regulation) : Not regulated

U.S.A management information Section 8(b) Inventory (TSCA): Present

Japan management information Existing and New Chemical Substances (ENCS): (7)–465, (7)–466

China management information Inventory of Existing Chemical Substances (IECSC): Present [16781]

Canada management information Domestic Substances List (DSL): Present

Australia management information Inventory of Chemical Substances (AICS): Present

New Zealand management information Inventory of Chemicals (NZIoC): May be used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right

Philippines management information Inventory of Chemicals and Chemical Substances (PICCS): Present

Taiwan management information Taiwan Chemical Substance Inventory (TCSI): Present

Substance of Roterdame Protocol : Not regulated

Substance of Stockholme Protocol : Not regulated

Substance of Montreal Protocol : Not regulated

16. Other information

A. Information source and references

Waste Control Act enforcement regulation attached [1]

EPISUITE v4.11; <https://www.epa.gov/tsca-screening-tools/download-epi-suitetm-estimation-program-interface-v411>

National Chemicals Information System; <http://ncis.nier.go.kr/main.do>

NIOSH Pocket Guide; <http://www.cdc.gov/niosh/npg/npgdcas.html>

Ministry of Public Safety and Security–Korea dangerous material inventory management system; <http://hazmat.mpss.kfi.or.kr/index.do>

American Conference of Governmental Industrial Hygienists TLVs and BEIs.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans; <http://monographs.iarc.fr>

TOMES–LOLI®; <http://www.rightanswerknowledge.com/loginRA.asp>

National Toxicology Program; <http://ntp.niehs.nih.gov/results/dbsearch/>

EU CLP; <https://echa.europa.eu/information-on-chemicals/cl-inventory-database>

Chemicalbook; http://www.chemicalbook.com/ProductIndex_EN.aspx

Korea Occupational Health & Safety Agency; <http://www.kosha.or.kr>

B. Issuing date : 20-08-2018

C. Revision number and date

revision number : 1

date of the latest revision : 01-03-2020

D. Others

- Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.
- The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.
- It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.
- The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.