

SAFETY DATA SHEET

According to OSHA Hazcom Standard 29 CFR 1910.1200

MAGICSIL NO.1_Color

Date of issue: 2024-10-10

Revision date: 2025-09-08

Version: 1.2

1. IDENTIFICATION

A. Product name

- MAGICSIL NO.1_Color

B. Recommended use and restriction on use

- General use: Adhesives, sealants
- Restriction on use: Use according to purpose

C. Manufacturer / Supplier / Distributor information

o Manufacturer information

- Company name: TOPSEAL Co., Ltd.
- Address: 37-20 Maengdongsandan-ro, Maengdong-myeon, Eumseong-gun, Chungcheongbuk-do
- Emergency telephone number: +82 43-537-1384

o Supplier/Distributor information

- Company name: Osung Specialties Co., Ltd
- Address: Yeongdong-daero, Gangnam-gu, Seoul, Republic of Korea
- Emergency telephone number: +82 31-401-2375

2. HAZARD IDENTIFICATION

A. GHS Classification

- Serious eye damage/irritation : Category2
- Skin sensitization : Category1B
- Chronic aquatic toxicity : Category3

B. GHS label elements

o Hazard symbols



o Signal words

- Warning

o Hazard statements

- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H412 Harmful to aquatic life with long lasting effects

○ **Precautionary statements**

1) Prevention

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

2) Response

- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 Specific treatment (if in eyes, wash with plenty of running water; if in contact with skin, wash with plenty of running water; if inhaled, move to fresh air; if ingested, seek medical advice on whether to induce vomiting).
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash before reuse.

3) Storage

- Not applicable

4) Disposal

- P501 Dispose of contents/container in accordance with local/regional/national/international regulation

C. Other hazards which do not result in classification

- Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | Trade names and Synonyms | CAS No. | Content(%) |
|--|---|-------------|-------------|
| Calcium carbonate | Carbonic acid calcium salt (1:1) ; Calcite ; Limestone ; Marble ; | 471-34-1 | 42.0 ~ 52.0 |
| Siloxanes and Silicones, di-Me, hydroxy-terminated | Siloxanes and silicones, dimethyl, hydroxy terminated ; Di methyl polysiloxane hydroxy ; Methyl hydroxy terminated siloxane ; Poly(dimethylsiloxane), hydroxy-terminated ; | 70131-67-8 | 25.0 ~ 35.0 |
| Distillates (petroleum), hydrotreated middle | Distillates, petroleum, hydrotreated middle ; Hydrotreated petroleum middle distillates ; Hydrotreated middle distillates (petroleum) ; Hydrotreated middle petroleum distillates ; | 64742-46-7 | 5.0 ~ 15.0 |
| 2-Butanone O,O',O''-(methylsilyldiyl)trioxime | O,O',O''-(Methylsilyldiyl)tris(ethylmethyl ketoxime) | 22984-54-9 | 1.0 ~ 10.0 |
| Silicon dioxide | Silica, amorphous, fumed, crystalline free ; Synthetic amorphous silica, fumed, crystalline free ; Synthetic amorphous sili | 112945-52-5 | 1.0 ~ 5.0 |

| | | | |
|---|--|-------------|-----------|
| Silicon dioxide | ca ; Silicates | 112945-52-5 | 1.0 ~ 5.0 |
| Siloxanes and Silicones, di-Me | Dimethyl silicones and siloxanes ; Polydimethylsiloxane ; Dimethylpolysiloxane ; Silicone oil ; | 63148-62-9 | 0.0 ~ 3.0 |
| C.I. pigment blue 029 | Ultramarine ; Pigment Blue 29 ; Ultramarine blue ; | 57455-37-5 | 0.0 ~ 3.0 |
| 2-Butanone,O,O',O''-(ethenylsilyldiyl)trioxime | VINYL OXIMINOSILANE | 2224-33-1 | 0.1 ~ 1.0 |
| N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine | 1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]- ; 1,2-Ethanediamine, N-[3-(trimethoxysilyl)propyl]- ; N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine ; Ethane-1,2-diamine, n-[3-(trimethoxysilyl)propyl]- ; (2-Aminoethyl)(3-(trimethoxysilyl)propyl)amine ; (Trimethoxysilylpropyl)ethylenediamine ; g-(2-Aminoethyl)aminopropyltrimethoxysilane ; g-(Ethylenediamino)propyltrimethoxysilane ; 3-(2-Aminoethyl)aminopropyltrimethoxysilane ; 3-(N-Aminoethyl)aminopropyltrimethoxysilane ; 3-(Trimethoxysilyl)propylethylenediamine ; | 1760-24-3 | 0.1 ~ 1.0 |

4. FIRST AID MEASURES

A. Eye contact

- Do not rub your eyes.
- Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician.
- Go to the hospital immediately if symptoms(flare, irritate) occur.
- Remove contact lenses if worn.

B. Skin contact

- Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Wash contaminated clothing thoroughly before re-using.
- Go to the hospital immediately if symptoms(flare, irritate) occur.
- Wash thoroughly after handling.

C. Inhalation contact

- Take specific treatment if needed.
- When exposed to large amounts of steam and mist, move to fresh air.

D. Ingestion contact

- Please be advised by doctor whether induction of vomit is demanded or not.
- Rinse your mouth with water immediately.

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

- Not available

F. Notes to physician

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.

5. FIREFIGHTING MEASURES

A. Suitable (Unsuitable) extinguishing media

- Avoid use of water jet for extinguishing
- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray

B. Specific hazards arising from the chemical

- Causes serious eye irritation
- Harmful to aquatic life with long lasting effects
- May cause an allergic skin reaction

C. Special protective actions for firefighters

- Avoid inhalation of materials or combustion by-products.
- Cool containers with water until well after fire is out.
- Do not approach the tank surrounded by fire until it is extinguished.
- In case of conflagration, use automatic fire sprinkler. Major fire may require withdrawal, allowing the object itself to burn.
- Keep unauthorized personnel out.

6. ACCIDENTAL RELEASE MEASURES

A. Personal precautions, protective equipment and emergency procedures

- Do not touch spilled material. Stop leak if you can do it without risk.
- Handle the damaged containers or spilled material after wearing appropriate protective equipment
- Move container to safe area from the leak area.
- Must work against the wind, let the upwind people to evacuate.
- Remove all sources of ignition.

B. Environmental precautions

- If large amounts have been spilled, inform the relevant authorities.
- Prevent runoff and contact with waterways, drains or sewers.

C. Methods and materials for containment and cleaning up

- Appropriate container for disposal of spilled material collected.
- Disposal of waste shall be in compliance with the Wastes Control Act
- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.
- Notify the central and local government if the emission reach the standard threshold.

7. HANDLING AND STORAGE

A. Precautions for safe handling

- Avoid contact with incompatible materials.
- Avoid direct physical contact.

- Comply with all applicable laws and regulations for handling
- Dealing only with a well-ventilated place.
- Do not handle until all safety precautions have been read and understood.

B. Conditions for safe storage, including any incompatibilities

- Avoid direct sunlight.
- Check regularly for leaks.
- Do not apply any physical shock to container.
- Do not apply direct heat.
- Do not use damaged containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

A. Exposure limits

- o **ACGIH TLV**
 - Not applicable
- o **OSHA PEL**
 - Not applicable

B. Engineering controls

- Business owner is recommended to maintain below recommended exposure limits for the working place with general exhaust of gas/vapour/mist/fume.

C. Individual protection measures, such as personal protective equipment

- o Respiratory protection
 - Consider warning properties before use.
 - Respiratory protection is ranked in order from minimum to maximum.
- o Eye protection
 - Provide an emergency eye wash station and quick drench shower in the immediate work area.
 - Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
- o Hand protection
 - Wear appropriate chemical resistant glove.
- o Skin protection
 - Wear appropriate chemical resistant protective clothing.
- o **Others**
 - Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------|----------------------------------|
| A. Appearance | |
| - Appearance | Others (Paste, etc.) |
| - Color | Color (white, gray, ivory, etc.) |
| B. Odor | Not available |
| C. Odor threshold | Not available |
| D. pH | Not available |

| | |
|---|---------------|
| E. Melting point/Freezing point | Not available |
| F. Initial Boiling Point/Boiling Ranges | Not available |
| G. Flash point | Not available |
| H. Evaporation rate | Not available |
| I. Flammability(solid, gas) | Not available |
| J. Upper/Lower Flammability or explosive limits | Not available |
| K. Vapour pressure | Not available |
| L. Solubility | Not available |
| M. Vapour density | Not available |
| N. Specific gravity(Relative density) | Not available |
| O. Partition coefficient of n-octanol/water | Not available |
| P. Autoignition temperature | Not available |
| Q. Decomposition temperature | Not available |
| R. Viscosity | Not available |
| S. Molecular weight | Not available |

10. STABILITY AND REACTIVITY

A. Chemical Stability

- This material is stable under recommended storage and handling conditions.

B. Possibility of hazardous reactions

- Hazardous Polymerization will not occur.

C. Conditions to avoid

- Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces
- Avoid contact with incompatible materials and condition.

D. Incompatible materials

- Not available

E. Hazardous decomposition products

- May emit flammable vapour if involved in fire.

11. TOXICOLOGICAL INFORMATION

A. Information on the likely routes of exposure

- **Respiratory tracts**
 - Not available
- **Oral**
 - Not available
- **Eye·Skin**
 - May cause an allergic skin reaction

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

- **Acute toxicity**

*** Oral**

- Product (ATEmix) : 2000mg/kg < ATEmix <= 5000mg/kg
- [Calcium carbonate] : LD50 > 2000 mg/kg Rat No death Not classified (OECD TG 420, GLP) (ECHA)
- [Distillates (petroleum), hydrotreated middle] : LD50 > 5000 mg/kg Rat (Read across CAS No. 64742-80-9) (OECD Guideline 401, GLP)(ECHA)
- [2-Butanone O,O',O''-(methylsilyldiyl)trioxime] : LD50 2463 mg/kg Rat OECD TG 401, GLP (ECHA)
- [Silicon dioxide] : LD50 > 5110 mg/kg Rat (Read-across CAS No. 7631-86-9) (OECD TG 401, GLP) (ECHA)
- [Siloxanes and Silicones, di-Me] : LD50 > 17000 / Rat (NLM)
- [C.I. pigment blue 029] : LD50 = 10000 / Rat
- [2-Butanone,O,O',O''-(ethenylsilyldiyl)trioxime] : LD50 >2000 mg/kg Rat OECD TG 425, GLP (ECHA)
- [N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine] : LD50 2295 mg/kg Rat (EPA OPPTS 870.1100, GLP) (ECHA)

*** Dermal**

- Product (ATEmix) : >5000mg/kg
- [Calcium carbonate] : LD50 > 2000 mg/kg Rat No death Not classified (OECD TG 402, GLP) (ECHA)
- [Distillates (petroleum), hydrotreated middle] : LD50 > 2000 mg/kg Rabbit (Read across CAS No. 64742-80-9) (OECD Guideline 402, GLP) (ECHA)
- [2-Butanone O,O',O''-(methylsilyldiyl)trioxime] : LD50 > 2000 mg/kg (OECD TG 402, GLP)(ECHA)
- [Silicon dioxide] : LD50 > 2000 mg/kg Rat (Read-across CAS No. 7631-86-9) (OECD TG 402, GLP) (ECHA)
- [Siloxanes and Silicones, di-Me] : LD50 > 2000 / Rabbit (NLM)
- [2-Butanone,O,O',O''-(ethenylsilyldiyl)trioxime] : LD50 > 2009 mg/kg OECD TG 402, GLP (ECHA)
- [N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine] : LD50 > 2000 mg/kg Rabbit (EPA OPPTS 870.1200, GLP) (ECHA)

*** Inhalation**

- Product (ATEmix) :
- [Calcium carbonate] : Aerosol LC50 > 3 mg/L 4 hr Rat No death Not classified (OECD TG 403, GLP) (ECHA)
- [Distillates (petroleum), hydrotreated middle] : Aerosol LC50 4.6 mg/L 4 hr Rat (Read across CAS No. 64742-80-9) (OECD Guideline 403, GLP) (ECHA)
- [Silicon dioxide] : Aerosol LC50 > 5.01 mg/L 4hr Rat (Read-across CAS No. 7631-86-9) (OECD TG 436, GLP) (ECHA)
- [N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine] : Aerosol LC50 > 1.49 ~ < 2.44 mg/L 4hr Rat (OECD TG 403, GLP) (ECHA)

o **Skin corrosion/irritation**

- Not available

o **Serious eye damage/irritation**

- Causes serious eye irritation

o **Respiratory sensitization**

- Not available

o **Skin sensitization**

- May cause an allergic skin reaction

o **Carcinogenicity**

*** IARC**

- [Silicon dioxide] : Group 3 (Silica, amorphous)

*** OSHA**

- Not available

*** ACGIH**

- Not available

* **NTP**

- Not available

* **EU CLP**

- [Distillates (petroleum), hydrotreated middle] : Carc. 1B (Note N)

o **Germ cell mutagenicity**

- Not available

o **Reproductive toxicity**

- Not available

o **STOT-single exposure**

- Not available

o **STOT-repeated exposure**

- Not available

o **Aspiration hazard**

- Not available

12. ECOLOGICAL INFORMATION

A. Ecotoxicity

o **Fish**

- [Calcium carbonate] : LC50 > 100 % v/v saturated solution 96 hr Oncorhynchus mykiss (OECD TG 203, GLP) (ECHA)

- [Distillates (petroleum), hydrotreated middle] : LL50 21 mg/L 96 hr Oncorhynchus mykiss (Read across CAS No. 68334-30-5) (OECD Guideline 203, GLP), NOEL 0.069 mg/L 14 d Oncorhynchus mykiss (ECHA)

- [2-Butanone O,O',O''-(methylsilyldiyl)trioxime] : LC50 972.34 mg/L 96hr Pimephales promelas (OECD TG 203), NOEC 57.67 mg/L 14day Oryzias latipes (OECD TG 204, GLP)(ECHA)

- [Silicon dioxide] : LL0 10000 mg/L 96hr Danio rerio (Read-across CAS No. 7631-86-9) (OECD TG 203, GLP) (ECHA)

- [2-Butanone,O,O',O''-(ethenylsilyldiyl)trioxime] : LC50 843 /l 96 hr Pimephales promelas (Read-across Cas No. 96-29-7) (ECHA)

- [N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine] : LC50 597 mg/L 96hr Danio rerio (EU Method C.1, GLP) (ECHA)

o **Crustaceans**

- [Calcium carbonate] : EC50 > 100 % v/v saturated solution 48 hr Daphnia magna (OECD TG 202, GLP) (ECHA)

- [Distillates (petroleum), hydrotreated middle] : EL50 68 mg/L 48 hr Daphnia magna (OECD Guideline 202, GLP), NOEL 0.163 mg/L 21 d Daphnia magna (ECHA)

- [2-Butanone O,O',O''-(methylsilyldiyl)trioxime] : EC50 231.84 mg/L 48hr Daphnia magna (OECD TG 202, GLP), NOEC >= 115.34 mg/L 21day Daphnia magna (OECD TG 211, GLP)(ECHA)

- [Silicon dioxide] : EL50 > 1000 mg/L 48hr Daphnia magna (Read-across CAS No. 7631-86-9) (OECD TG 202, GLP), NOEC 132.7 mg/L 21d Daphnia magna (Read-across CAS No. 7631-86-9) (OECD TG 211, GLP) (ECHA)

- [2-Butanone,O,O',O''-(ethenylsilyldiyl)trioxime] : EC50 201 /l 48 hr Daphnia magna (Read-across Cas No. 96-29-7) (ECHA)

- [N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine] : EC50 81 mg/L 48hr Daphnia magna (EU Method C.2, GLP), NOEC >= 1 ppm 21d Daphnia magna (ECHA)

o **Algae**

- [Calcium carbonate] : EC50 > 14 mg/L 72 hr, NOEC 14 mg/L 72 hr Desmodesmus subspicatus (OECD TG 201, GLP) (ECHA)

- [Distillates (petroleum), hydrotreated middle] : EL50 10 mg/L 72 hr Raphidocelis subcapitata (Read across CAS No. 68334-30-5) (OECD Guideline 201) (ECHA)

- [2-Butanone O,O',O''-(methylsilyldiyl)trioxime] : EC50 18.45 mg/L, NOEC 3 mg/L 72hr Raphidocelis subcapitata (OECD TG 201, GLP)(ECHA)

- [Silicon dioxide] : EC50 > 173.1 mg/L, NOEC 173.1 mg/L 72hr *Desmodesmus subspicatus* (Read-across CAS No. 7631-86-9) (OECD TG 201, GLP) (ECHA)
- [2-Butanone,O,O',O''-(ethenylsilylidyne)trioxime] : EC50 16 /l 72 hr *Raphidocelis subcapitata* (Read-across C as No. 96-29-7) (ECHA)
- [N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine] : EC50 8.8 mg/L, NOEC 3.1 mg/L 72hr *Raphidocelis subcapitata* (OECD TG 201, GLP) (ECHA)

B. Persistence and degradability

- **Persistence**
 - Not available
- **Degradability**
 - Not available

C. Bioaccumulative potential

- **Bioaccumulative potential**
 - [2-Butanone O,O',O''-(methylsilylidyne)trioxime] : BCF 0.5 ~ 0.6 (ECHA)
 - [2-Butanone,O,O',O''-(ethenylsilylidyne)trioxime] : BCF 0.5 ~ 0.6 (2ppm), 2.5 ~ 5.8(0.2ppm) (Read-across Cas No. 96-29-7) (ECHA)
- **Biodegradation**
 - [Calcium carbonate] : Readily biodegradable, 90 % 28 d (CO2 evolution) (OECD TG 301 B, GLP) (ECHA)
 - [Distillates (petroleum), hydrotreated middle] : Readily biodegradable, 60 % (O2 consumption) 28 d (Read across CAS No. 68334-30-5) (OECD Guideline 301 F) (ECHA)
 - [2-Butanone O,O',O''-(methylsilylidyne)trioxime] : Not readily biodegradable, 28 % degradation (TOC removal) 28day (OECD TG 301C) (ECHA)
 - [2-Butanone,O,O',O''-(ethenylsilylidyne)trioxime] : No biodegradation 28% degradation(TOC removal) 28d (Read-across Cas No. 22984-54-9, OECD TG 301) (ECHA)
 - [N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine] : Not readily biodegradable, 39 % degradation (DOC removal) 28 d (EU Method C.4-A, GLP) (ECHA)

D. Mobility in soil

- Not available

E. Other adverse effects

- Not available

13. DISPOSAL CONSIDERATIONS

A. Disposal methods

- It shall be treated by incineration
- Oil water separation technology shall be applied as pre-waste treatment if it is applicable
- Stabilization and minimization treatment by incineration or similar method can be applied, if more than two kinds of designated wastes are in mixture state and it is impractical to separate them

B. Special precautions for disposal

- Anyone with business license number who generates industrial wastes shall treat the waste by him/herself or by entrusting to the legal entities who treat the wastes, recycle the wastes of others or install and operate the waste treatment facilities according to the Wastes Control Act
- Dispose of waste in accordance with all applicable laws and regulations.

14. TRANSPORT INFORMATION

A. UN No. (IMDG CODE/IATA DGR)

- Not applicable

B. Proper shipping name

- Not applicable

C. Hazard Class

- Not applicable

D. IMDG CODE/IATA DGR Packing group

- Not applicable

E. Marine pollutant

- Not applicable

F. Special precautions for user related to transport or transportation measures

- Air transport(IATA): Not subject to IATA regulations.
- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.
- EmS FIRE SCHEDULE :Not available
- EmS SPILLAGE SCHEDULE :Not available

15. REGULATORY INFORMATION

A. National and/or international regulatory information

o POPs Management Law

- [Calcium carbonate] : Not applicable
- [Siloxanes and Silicones, di-Me, hydroxy-terminated] : Not applicable
- [Distillates (petroleum), hydrotreated middle] : Not applicable
- [2-Butanone O,O',O''-(methylsilyldiyl)trioxime] : Not applicable
- [Silicon dioxide] : Not applicable
- [Siloxanes and Silicones, di-Me] : Not applicable
- [C.I. pigment blue 029] : Not applicable
- [2-Butanone,O,O',O''-(ethenylsilyldiyl)trioxime] : Not applicable
- [N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine] : Not applicable

o Information of EU Classification

* Classification

- [Distillates (petroleum), hydrotreated middle] : H350

o U.S. Federal regulations

* OSHA PROCESS SAFETY (29CFR1910.119)

- Not applicable

* CERCLA Section 103 (40CFR302.4)

- Not applicable
- * **EPCRA Section 302 (40CFR355.30)**
 - Not applicable
- * **EPCRA Section 304 (40CFR355.40)**
 - Not applicable
- * **EPCRA Section 313 (40CFR372.65)**
 - Not applicable
- o **Rotterdam Convention listed ingredients**
 - Not applicable
- o **Stockholm Convention listed ingredients**
 - Not applicable
- o **Montreal Protocol listed ingredients**
 - Not applicable

16. OTHER INFORMATION

A. Reference

- The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.
- This Safety Data Sheet was compiled with data and information from the following sources: KOSHA, NITE, ESIS, NLM, SIDS, IPCS

B. Issue date

- 2024-10-10

C. Revision number and Last date revised

- 3 times, 2025-09-08

D. Other

- This SDS is prepared according to the Globally Harmonized System (GHS).