

Material Safety Data Sheet

1. Identification of the product and the supplier

1) Chemical Name

- HILONE SH-100**

2) Advisable use and Restriction

- Advisable use : Wire and Cable
- Restriction of product using : Used for recommended use.

3) Manufacturer/Supplier/Distributor information

- Supplier : TSC Co., LTD.
- Address : #1237-5, JEONGWANG-DONG, SIHEUNG-SI, GYEONGGI-DO, SOUTH KOREA
- Respondent : R&D Center , QA Team
- Emergency response number : 82-31-497-7171

2. Hazard identification

1) Hazard classification

- | | |
|-----------------------------------------------------|-----------------------|
| - Acute toxicity | Class 5 |
| - Skin Corrosion/ Irritation | Class 2 |
| - Serious Eye Damage/Irritation | Class 2B |
| - Respiratory sensitizer | Not classified |
| - Germ cell mutagenicity | Not classified |
| - Carcinogenicity | Not classified |
| - Reproductive toxicity | Not classified |
| - Specific target organ toxicity(single exposure) | Not classified |
| - Specific target organ toxicity(repeated exposure) | Not classified |
| - Aspiration Hazard | Not available |

2) Allocation label elements

- Pictogram and symbol



- Signal word

- Warning

- Hazard statement

- H303 May be harmful if swallowed.
- H315 Causes skin irritation.
- H320 Causes eye irritation.

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○ Precautionary statements

1) Prevention

- P264 Wash thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P264 Wash thoroughly after handling.

2) Response

- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- 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.

3) Storage

- Not applicable

4) Disposal

- Not applicable

3. Composition/information on ingredients

Chemical Name	Common Name Synonyms	CAS No.	Content(%)
Polyethylene	Ethene copolymer	9002-88-4	> 96
Trimethoxyvinylsilane	-	2768-02-07	< 3
Several kinds of additives Besides Dicumyl Peroxide	-	Trade Secret	< 1

4. First-aid measures

1) Eye contact

- In case of contact with substance, flush eyes with amount of water for at least 15 minutes.

2) Skin contact

- Remove contaminated clothing and shoes. Wash skin with soap and water for at least 15 minutes.

3) Ingestion

- Get medical attention if swallowed amount of substance.

4) Inhalation

- Move victim to non-contaminated place in fresh air.

5. Fire-fighting measures

1) Suitable (and unsuitable) extinguishing media:

- Suitable extinguishing media: Dry chemical, CO₂, water spray, regular foam
- Unsuitable extinguishing media: Not available

2) Specific hazards arising from the chemical (ex: hazardous combustion products)

- Thermal decomposition products : Carbon oxides, carbon monoxide, carbon dioxide.
- Fire and Explosion Hazards :
 - May form explosive mixtures with air.
 - Avoid the formation of dust and contact with ignition sources.

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- 3) Special protective equipment and precautions for fire-fighters:
- Wear positive pressure self-contained breathing apparatus (SCBA).
 - Structural firefighters' protective clothing will only provide limited protection.

6. Accidental release measures

- 1) Personal precautions, protective equipment and emergency procedures:
- Put on appropriate personal protective equipment.
 - Minimize contact with skin and eyes.
 - Take appropriate preventive measures.
 - Avoid inhalation of dust.
 - Ventilate the leaked area.
- 2) Environmental precautions and protective procedures
- Ensure adequate ventilation.
 - Prevent entry into waterways, sewers or basements.
- 3) The methods of purification and removal
- Collect in sealed containers for product recovery and safety measure.
 - Ventilate leak area and recover products and clean the area.

7. Handling and storage

- 1) Precautions for safe handling
- Wash thoroughly after handling.
 - Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures.
- 2) Conditions for safe storage:
- Store in a closed container.
 - Save in cool, dry and well ventilated place.
 - Avoid contact with severe heat, direct sunlight, other sources of ignition.

8. Exposure controls/personal protection

- 1) Occupational Exposure Limits
- Korean Occupation of Safety and Health Regulation : Not available
 - ACGIH : Not available
- 2) 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.
 - Check legal suitability of exposure level.
- 3) 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.
 - Eye protection:
 - Wear safety glasses to protect eyes from scattering toxic substance.
 - Hand protection: Wear chemical resistant gloves to avoid direct contact with chemical substance.
 - Body protection: Wear appropriate protective chemical resistant clothing to prevent exposure of skin.

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9. Physical and chemical properties

- 1) Appearance : Solid
 - 2) Odor : Slight odor
 - 3) Melting point/freezing point : 110 ~ 130 °C
 - 4) Flash point : Not available
 - 5) Upper/lower flammability or explosive limits. : Not available
 - 6) Evaporation rate : Not available
 - 7) Specific gravity /Density : 0.91 ~ 0.93
 - 8) Solubility(ies) : Insoluble
 - 9) Vapour pressure : Not available
 - 10) n-octanol/water partition coefficient : Not available
 - 11) Degradation temperature : Not available
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10. Stability and reactivity

- 1) Chemical stability and Possibility of hazardous reactions
 - Stable under normal temperatures and pressures.
 - 2) Conditions to avoid (e.g., static discharge, shock or vibration)
 - Avoid heat, flames, sparks and other sources of ignition.
 - Avoid contact with incompatible materials.
 - 3) Incompatible materials: Avoid contact with strong acid, heat, flames, sparks and other sources of ignition.
 - 4) Hazardous decomposition products: Carbon oxides, carbon monoxide, carbon dioxide.
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11. Toxicological information

Information of Health Hazardous

- Acute toxicity
 - GHS : **Class 5** (ATEmix = 2,051.8)
- Skin Corrosion/ Irritation :
 - GHS : **Class 2**
- Serious Eye Damage/Irritation
 - GHS : **Class 2B**
- Respiratory sensitizer
 - GHS : **Not classified**
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- Reproductive toxicity
 - GHS : **Not classified**
- Specific target organ toxicity(single exposure)
 - GHS : **Not classified**
- Specific target organ toxicity(repeated exposure)
 - GHS : **Not classified**
- Aspiration Hazard
 - GHS : **Not available**

12. Ecological information

- 1) Ecological toxicity
 - Acute toxicity
 - GHS : **Not available**
 - Chronic toxicity
 - GHS : **Not available**
- 2) Persistence and degradability
 - Not available
- 3) Bioaccumulative potential
 - Not available
- 4) Mobility in soil
 - Not available

13. Disposal considerations

- 1) Disposal method
 - Waste must be disposed of in accordance with federal, state and local environmental control regulations.
- 2) Disposal precaution
 - Consider the require attentions in accordance with waste treatment management regulation.

14. Transport information

- 1) UN Number : Not applicable
- 2) UN Proper shipping name : Not applicable
- 3) Transport Hazard class : Not applicable
- 4) Packing group : Not applicable
- 5) Marine pollutant : Not applicable
- 6) Special precautions
 - in case of fire: Not applicable
 - in case of spill: Not applicable

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15. Regulatory information

- 1) Korea
 - Not regulated
 - 2) EU classification
 - Not applicable
 - 3) U.S.A management information
 - Not regulated
 - 4) Japan management information
 - Not applicable
 - 5) China management information
 - Not applicable
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16. Other information

- 1) Information source and references
 - National chemicals information systems: <http://ncis.nier.go.kr>
 - Korea Occupational Health & Safety Agency: <http://www.kosha.net>
- 2) Issue date
2015-10-23
- 3) Revision number and date
 - 2013. 06. 28 (1th)
- 4) Other material safety data sheet information
 - This MSDS were made of the informational purposes for the safe handling when education or use of the production department workers. Therefore we make no guarantee for result obtained, and assume no responsibility for damages incurred by use of this product. But the material used for the purpose of the data requested is available for further information.