

Safety Data Sheet (SDS)

Manufacturer information Manufacturer: Hermetic Corporation

Address: 1-9-27 Takadanobaba Shinjuku Tokyo Japan

Department: Research Department

Tel.: 03-3200-7289

Fax: 03-3208-8234

The issuing date: November 16, 2011

File number: AS—001

Product name: AquaStick Base

Product nature: Chemical substance or Mixture: Mixture

Type: Agent for Epoxy resin paint / adhesive/base resin

Chemical name: Epoxy resin

The hazardous ingredients:

Ingredient (s)	By weight (%)	CAS No.	CSCCL	ISHA	Note
Poly[2-(chloromethyl)oxirane-alt-4,4'-(propane-2,2-diyl)diphenol]	60-65	25068-38-6	7-1283	Existing Chemical Substances	PRTR -Category 1

Hazard Identification

GHS classification

Physical hazards:

Explosives	Not classified
Flammable gases	Not applicable
Flammable aerosols	Not applicable
Oxidizing gases	Not applicable
Gases under pressure	Not applicable
Flammable liquids	Not classified
Flammable solids	Not applicable
Self-reactive substances and mixtures	Classification not possible
Pyrophoric liquids	Not classified
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Classification not possible
Substances and mixtures which, in contact with water, emit flammable gases	Classification not possible
Oxidizing liquids	Not classified
Oxidizing solids	Not applicable

Organic peroxides	Classification not possible
Corrosive to metals	Classification not possible
Health hazards:	
Acute toxicity, oral	Not classified
Acute toxicity, dermal	Category 4
Acute toxicity, inhalation (Gases)	Not applicable
Acute toxicity, inhalation (Vapours)	Classification not possible
Acute toxicity, inhalation (Dust/Mist)	Classification not possible
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Sensitisation, respiratory	Classification not possible
Germ cell mutagenicity	Classification not possible
Sensitisation, skin	Category 1
Carcinogenicity	Classification not possible
Reproductive toxicity	Classification not possible
Specific target organ toxicity, single exposure	Classification not possible
Specific target organ toxicity, repeated exposure	Classification not possible
Aspiration hazard	Classification not possible
Environmental hazards:	
Hazardous to the aquatic environment, acute hazard	Category 2
Hazardous to the aquatic environment, long-term hazard	Category 2



GHS Label elements

Signal word: Warning

Hazard Statement:

- Classifications: Not applicable according to classification criteria.
- Harmful in contact with skin.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause an allergic skin reaction.
- Toxic to aquatic life.
- Toxic to aquatic life with long lasting effects.

Precautionary Statements:

- Wash hands thoroughly after handling.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wear protective gloves/protective clothing.
- Wear eye protection/face protection.
- Avoid release to the environment.

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- Wash contaminated clothing before reuse.
 - Obtain special instructions before use.
 - Do not handle until all safety precautions have been read and understood.

Response Precautionary Statements:

- Specific treatment.
 - Call a POISON CENTER or doctor/physician if you feel unwell.
 - Specific treatment is urgent.
 - Wash contaminated clothing before reuse.
 - Wash with plenty of soap and water.
 - IF IN EYES: Rinse cautiously with water for several minutes.
 - Remove contact lenses, if present and easy to do. Continue rinsing.
 - If skin irritation occurs: Get medical advice/attention.
 - If eye irritation persists: Get medical advice/attention.
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First-aid measures

- Eyes Contact : Immediately rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Wash thoroughly to the back of the eyelids and continue rinsing.
- Skin Contact : Immediately call a POISON CENTER or doctor/physician. If it adheres to the skin, wipe it off with a cloth. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Do not use solvents or thinners. If the appearance is abnormal or pain occurs, get medical attention and medical treatment.
- Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.
- Ingestion : Rinse mouth thoroughly with water. If possible, insert finger into throat to induce vomiting then immediately see a doctor.
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Fire-fighting measures

- Dry sand. Foam. Carbon dioxide (CO₂). Dry chemical.
- Remove flammable materials quickly from the surrounding area.
- Use appropriate fire extinguishers and extinguishing media.

Extinguish fire from upwind.

- Take extinguishing-measures in response to surrounding fires.

Protective measures for fire-fighting:

- In addition to wearing heat-resistant protective clothing, wear protective equipment such as impervious gloves and gas mask for organic solvent gas. Extinguish the fire from the windward side.
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Accidental release measures

- Use proper personal protective equipment.
- Absorb and collect with dry sand, earth, or other non-combustible materials. For large amount of leakage, prevent the outflow by embankments.
- Do not discharge into rivers to cause environmental hazards.

Handling and storage

Handling: ▪ Store well-ventilated place.

- Keep away from heat/sparks/open flames/hot surfaces.

Storage:

- Avoid direct sunlight.
- Store well-ventilated place.
- Keep away from heat/sparks/open flames/hot surfaces.
- Do not store the product in a place where the temperature exceeds 40 °C.

Other: Follow the Fire Service Act.

Exposure controls/personal protection

Controlled concentrations: No data available.

Control parameters: No data available.

Engineering Controls: Install a local exhaust system and handle with explosion-proof electrical equipment. Install washer eyes and safety showers near to the handling and storage area.

Personal Protective Equipment: Protective glasses, protective gloves, protective boots, protective clothing, gas mask for organic gas, air supply mask and air respirators.

Physical and chemical properties

Appearance:	Solid
Colour	Translucent color
Specific gravity	1.16 (25°C)
Volatility	No data available
Flash point	240°C
Ignition temperature	No data available
Flammable/Explosive Limits	No data available
Other	Insoluble in water

Stability and reactivity

- Reacts with amines and strong acids.
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Toxicological information

Acute toxicity: There is no relevant data at present.

Chronic toxicity: There is no relevant data at present.

Skin corrosion/irritation: There is weak irritation to skin and eyes for some people.

Ecological information

There is no relevant data at present.

Disposal considerations

Residual waste, contaminated containers and packaging:

- Outsource industrial waste (mixture of waste liquid and waste plastics) to a licensed specialist.
- Hardened and solid materials should be treated in the same way as waste plastic.

Transport information

Domestic laws and regulations: Fire Service Law: Category 4: Class 4 Petroleum (water-insoluble)

- Make sure that there are no leaks in the container. Load it so that it does not fall or it is not damaged, and ensure that it does not collapse.
- Follow the handling and storage measures in Section 7.

Land transportation:

- If it is applicable to the Fire Services Act, Occupational Safety and Health Act, or Poisonous and Deleterious Substances Act, follow the transportation methods specified in each applicable law.

Sea transportation:

- Follow the regulations of the Ship Safety Act.

Air transportation:

- Comply with aviation laws.

Regulatory information

Fire-Fighting Law: Category 4: Class 4 Petroleum

ISHA: Existing Chemical Substances.

CSCL: 7-1283

PRTR: Category 1-No.30

References:

Recommendations for acceptable concentrations, etc. established by Japan Society for Occupational Health

Zachs Hazardous Substance Data Book

International Chemical Safety Card and Hazardous and Toxic Disposal Handling Manual from Overseas Technical Data Laboratory

Chief Text for Organic Solvent Handling

Product Safety Data Sheet Guidelines (Japan Chemical Industry Association)

This SDS is a succinct summary of items that are necessary for proper use of our products and is intended for normal handling. Regarding the contents of the description, the dangerous and hazardous evaluations obtained at this time are not always sufficient, so handle them with care.

This SDS may be revised due to revisions to laws and new knowledge and we may not provide a notice prior to revision.

End

Safety Data Sheet (SDS)

Manufacturer information Manufacturer: Hermetic Corporation
 Address: 1-9-27 Takadanobaba Shinjuku Tokyo Japan
 Department: Research Department
 Tel.: 03-3200-7289
 Fax: 03-3208-8234
 The issuing date: November 16, 2011
 File number: AS—001-B

Product name: Aquastick curing agent

Product nature: Chemical substance or Mixture: Mixture
 Type: Agent for Epoxy resin paint / adhesive /Hardener
 Chemical name: Epoxy resin
 The hazardous ingredients:

Ingredient (s)	By weight (%)	CAS No.	CSCL	ISHA	Note
Modified aliphatic polyamineA	5～25				
Modified aliphatic polyamineB	60～80				
Nonylphenol	10～20				

Hazard Identification

GHS classification

Physical hazards:

Flammability/flammable gas	Not classified
Corrosive to metals	Classification not possible

Health hazards:

Acute toxicity, oral	Category 4
Acute toxicity, dermal	Category 4
Acute toxicity, inhalation (Gases)	Not applicable
Acute toxicity, inhalation (Vapours)	Classification not possible
Acute toxicity, inhalation (Dust/Mist)	Classification not possible
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Sensitisation, respiratory	Classification not possible
Sensitisation, skin	Category 1
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Classification not possible
Reproductive toxicity	Classification not possible
Specific target organ toxicity, single exposure	Classification not possible

Specific target organ toxicity, repeated exposure	Classification not possible
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Aspiration hazard	Classification not possible
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Environmental hazards:

Hazardous to the aquatic environment, acute hazard	Category 2
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Hazardous to the aquatic environment, long-term hazard	Category 2
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Hazards not listed above are not classified or cannot be classified.

GHS Label elements

Signal word: Warning



Hazard Statement:

- Harmful if swallowed.
- Harmful in contact with skin.
- Harmful if inhaled.
- Causes serious eye irritation.
- May cause an allergic skin reaction
- Toxic to aquatic life.
- Toxic to aquatic life with long lasting effects
- Causes damage to organs (respiratory organ).

Precautionary Statements:

- Wash hands and face thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Contaminated work clothing should not be allowed out of the workplace.
- Do not breathe dust/fume/gas/mist/ vapours/spray.
- Avoid release to the environment.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.

Response Precautionary Statements:

- Specific treatment.
- Call a POISON CENTER or doctor/physician if you feel unwell.
- Specific treatment is urgent.
- Wash contaminated clothing before reuse.
- IF ON SKIN: Wash with plenty of soap and water.
- IF IN EYES: Rinse cautiously with water for several minutes.
- Remove contact lenses, if present and easy to do.
- Continue rinsing.
- If skin irritation occurs: Get medical advice/attention.

- If eye irritation persists: Get medical advice/attention.
-

First-aid measures

- Eyes Contact : Immediately rinse cautiously with water for 15 minutes. Remove contact lenses, wash thoroughly to the back of the eyelids, if present and easy to do. Continue rinsing.
- Skin Contact : Immediately call a POISON CENTER or doctor/physician. If it adheres to the skin, wipe it off with a cloth. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Do not use solvents or thinners. If the appearance is abnormal or pain occurs, get medical attention and medical treatment.
- Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.
- Ingestion : Rinse mouth thoroughly with water. If possible, insert finger into throat to induce vomiting then immediately see a doctor.
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Fire-fighting measures

- Dry sand. Foam. Carbon dioxide (CO₂). Dry chemical.
- Remove flammable materials quickly from the surrounding area.
- Use appropriate fire extinguishers and extinguishing media.
- Extinguish fire from upwind.
- Take extinguishing-measures in response to surrounding fires.

Protective measures for fire-fighting:

- In addition to wearing heat-resistant protective clothing, wear protective equipment such as impervious gloves and gas mask for organic solvent gas. Extinguish the fire from the windward side.
-

Accidental release measures

- Use proper personal protective equipment.
 - Absorb and collect with dry sand, earth, or other non-combustible materials. For large amount of leakage, prevent the outflow by embankments.
 - Do not discharge into rivers to cause environmental hazards.
-

Handling and storage

- Handling: ▪ Store well-ventilated place.
- Keep away from heat/sparks/open flames/hot surfaces.

Storage:

- Avoid direct sunlight.
- Store well-ventilated place.
- Keep away from heat/sparks/open flames/hot surfaces.

Do not store the product in a place where the temperature exceeds 40 °C.

Other: Follow the Fire Service Act.

Exposure controls/personal protection

Controlled concentrations: No data available.

Control parameters: No data available.

Engineering Controls: Install a local exhaust system and handle with explosion-proof electrical equipment. Install washer eyes and safety showers near to the handling and storage area.

Personal Protective Equipment: Protective glasses, protective gloves, protective boots, protective clothing, gas mask for organic gas, air supply mask and air respirators.

Physical and chemical properties

Appearance:	Solid
Colour	White
Specific gravity	1.1 (25°C)
Volatility	No data available
Flash point	153°C
Ignition temperature	No data available
Flammable/Explosive Limits	No data available
Other	Insoluble in water

Stability and reactivity

Avoid exposure to high temperatures, high humidity and direct sunlight.

Toxicological information

Acute toxicity There is no relevant data at present.

Skin corrosion/irritation Contact with skin or inhalation of vapor may cause skin and mucous membrane damage.

Ecological information

There is no relevant data at present.

Disposal considerations

Residual waste, contaminated containers and packaging:

- Outsource industrial waste (mixture of waste liquid and waste plastics) to a licensed specialist.
- Hardened and solid materials should be treated in the same way as waste plastic.

Transport information

Domestic laws and regulations: Fire Service Law: Category 4: Class 3 Petroleum (water-insoluble)

- Make sure that there are no leaks in the container. Load it so that it does not fall or it is not damaged, and ensure that it does not collapse.
- Follow the handling and storage measures in Section 7.

Land transportation:

- If it is applicable to the Fire Services Act, Occupational Safety and Health Act, or Poisonous and Deleterious Substances Act, follow the transportation methods specified in each applicable law.

Sea transportation:

- Follow the regulations of the Ship Safety Act.

Air transportation:

- Comply with aviation laws.
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Regulatory information

Fire-Fighting Law: Category 4: Class 3 Petroleum

References:

Curing agent for epoxy resin. Guide to correct handling.
Epoxy Resin Technology Association
International Chemical Safety Card
Chief Text for Organic Solvent Handling
Product Safety Data Sheet Guidelines (Japan Chemical Industry Association)

This SDS is a succinct summary of items that are necessary for proper use of our products and is intended for normal handling. Regarding the contents of the description, the dangerous and hazardous evaluations obtained at this time are not always sufficient, so handle them with care.

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