

SAFETY DATA SHEET

Sika® Injection-127 H (A)



Version 1.0

MSDS Number: 1000000538584

Revision Date: 2018/02/06

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sika® Injection-127 H (A)
Product code : 1000000538584
Type of product : Liquid

Recommended use of the chemical and restrictions on use

Product use : Polyurethane foam for crack injection

Manufacturer or supplier's details

Company : Sika (Thailand) Limited
700/37 Moo 5 Bangpakong
Industrial Park II Km.57 Bangna-Trad Rd.
Tambol KlongTamhru
Maung District, Cholburi 20000,
Thailand
Telephone : +66 3810 9500
Telefax : +66 3821 4286
E-mail address : Sikathai@th.sika.com

2. HAZARDOUS IDENTIFICATION

GHS Classification

Acute toxicity (Inhalation) : Category 4
Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 2A
Respiratory sensitisation : Category 1
Skin sensitisation : Category 1
Carcinogen : Category 2
Reproductive toxicity : Category 1B
Specific target organ toxicity- single exposure : Category 3 (Respiratory system)
Specific target organ toxicity- repeated exposure (Inhalation) : Category 2
Acute aquatic toxicity : Category 1

GHS Label element

Hazard pictograms :



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Signal word : Danger

Hazard statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing Difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.
H373 May cause damage to organs through prolonged or Repeated exposure if inhaled.
H400 Very toxic to aquatic life.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
P281 Use personal protective equipment as required.
P285 In case of inadequate ventilation wear respiratory protection.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 IF skin irritation or rash occurs: Get medical advice/ attention.

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P337 + P313 IF eye irritation persist: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

Storage:

P403 + P333 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
Polymeric MDI	9016-87-9	10 - 40 %
DBP	84-74-2	5 - 45 %

4. FIRST AID MEASURES

In case of eye contact : Immediately flush eyes with large amounts of water for at least 15 minutes with holding eyes opened and occasionally lifting the upper and lower eyelids. If the person affected wears contact lenses, remove them if possible for more through flushing. If pain and irritation develop, call an oculist as soon as possible.

In case of skin contact : Immediately flush affected area with large amounts of water for at least 15 minutes. Then wash the affected area with soap and water. If pain and irritation develop call a dermatologist or physician.

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- Ingestion : Mouth wash with water and drink some amount of water to dilute the drunken product. Do not give him anything to eat if the affected person is unconscious. Call a physician at once.
- Inhalation : The affected person should evacuate or be moved to fresh air from the risk of further exposure.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Dry chemical powder, carbon dioxide, water spray and large amount of water.
- Hazardous combustion : CO, CO₂, NO₂, HCN.
- Specific extinguishing methods : Standard procedure for chemical fires.
- Special protective equipment : All persons fighting a fire should wear full protective equipment including breathing apparatus as toxic gases will be formed by combustion . Remove all sources of ignition or flammable materials around the fire site. Clear the area of all non-essential personnel. Firefighting must be performed on the windward. In case of large fires, water spray should be used. Cool down containers exposed to fire with water.

6. ACCIDENTAL MEASURES

Put on protective equipment. Remove source of fire and ensure adequate ventilation. Prevent from entering drains, scoop up and place in an opened top drum, eliminate all source by absorption on paper, cloth towels, sand or absorbent. Treat with neutralizing solution: Mixture of

Water	90 – 95%
Concentrated ammonia	3 – 8%
Detergent	2%

Finally wash down the spill area by water.

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7. HANDLING AND STORAGE

Advice on safe handling : Wear personal protective equipment such as splash-proof goggles, face shield, chemically impermeable suits, boots and gloves whenever you handle the product. Avoid getting the product in eyes, on skin, on clothing and inhaling vapor or mist of the product. Wash hand and face before and at the end at work. Do not expose the product to fire, spark and heat. Modified isocyanate concentration in the air be checked at regular intervals. Keep equipment clean. Use disposable containers and tools where possible. Do not eat, drink or smoke in working area. A basic essential in sampling, handling and storage is the prevention of contact with moisture or water. For personal protection see section 8.

Conditions for safe storage : Store the product in airtight containers. Store containers in a dry and cool well-ventilated fireproof warehouse. Store the product away from the chemically incompatible materials such as oxidants and strong acids. Put up a sign of " Caution : Flammable and Authorized Personnel Only" in the storage area.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Components with workplace control parameters

Component	CAS No.	Value type (From of exposure	Control parameter/Permissible concentration	Basis
MDI	9016-87-9	TWA	0.05 mg/m ³	ACGIH
		CL	0.02 ppm	OSHA PEL

Personal protective equipment

Respiratory protection : Required at inadequately ventilated workplaces. wear full protective equipment

Hand protection : Required (impermeable gloves),Chemical resistance.

Eye protection : Required (safety glasses, face protection).

Hygiene measures : Safety showers and eye-wash fountains.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	: Dark brown
Odour	: Slightly aromatic
Odour Threshold	: Not applicable
pH	: Not applicable
Specific gravity	: 1.005 – 1.205 (at25 °C)
Viscosity	: Max. 500 cps. (at25 °C)
Boiling point	: Polymerizes generating CO2 gas ROUND 260°C
Freezing point	: - 60 °C
Flash point	: > 156 °C (COC Method)
Evaporation rate	: No data available
Flammable (solid, gas)	: No data available
Explosion limit	: Not determined
Vapour pressure	: No data available
Solubility	: Insoluble in water, reacts the evolution of CO2
Partition coefficient: n-otanol/water	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not applicable
Molecular weight	: No data available
Volatile organic compound (VOC) content	: No data available

10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Unstable. Must avoid to contact with the moisture in the air.

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Possible of hazardous reaction: Exothermic reaction with amines alcohols: reacts with water forming CO₂ in closed containers risk of bursting owing to increase of pressure.

Condition to avoid : No data available

Incompatible material : Amines, alcohols, acids and bases.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if Inhaled

MDI Oral LD50 >5000 mg/kg (Mouse)

Inhalation LC50 370 ~ 490 mg/m³(4H,for mist)(mouse)

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation

Respiratory or skin sensitisation

Skin sensitization: May cause an allergic skin reaction.

Respiratory sensitization: May cause allergy or asthma or breathing difficulties if inhaled.

Germ cell mutagenicity

Not classification based on available information.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

May damage fertility or unborn child.

STOT – single exposure

May cause respiratory irritation.

STOT – repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled.

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12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

13. DISPOSAL CONSIDERATION

Care must be taken to prevent environmental contamination from use or disposal of this material. All the users of this material have the responsibility for disposal of used material, residues and container in compliance with your local laws and regulations. Burn the waste in a chemical incinerator equipped with an after-burner and scrubbers. Pay extra care in incinerator, as this material is highly flammable. Any industrial waste disposal practice must be in compliance with your local laws and regulations. Contact to your local environmental management agency for specific rules.

14. TRANSPORT INFORMATION

International Regulation

ADR

Not dangerous goods

UNRTDG

Not dangerous goods

IATA-DGR

Not dangerous goods

IMDG-Code

Not dangerous goods

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Dangerous good of IMO (sea transport) and ICAO (air transport) are not applicable for modified isocyanate.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

49 CFR

Not dangerous goods

TDG

Not dangerous goods

ANTT 420

Not dangerous goods

GB 6944/12268

Not dangerous goods

ADG

Not dangerous goods

NZS 5433

Not dangerous goods

15. REGULATORY INFORMATION

Safety, health and environmental regulation/legislation specific for the substance or mixture

Notification of Ministry of Interior on Working Safety Relating to Hazardous Chemical B.E. 2534	:	Diphenylmethanediisocyanate, isomers and homologues
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	:	Not applicable
Hazardous Substance Act B.E. 2535	:	Diphenylmethanediisocyanate, isomers and homologues DBP
Emergency Decree on Controlling the Use of Volatile Substance B.E. 2533	:	Not applicable

16. OTHER INFORMATION

Date format : yyyy/mm/dd

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.