

SAFETY DATA SHEET

SikaPower®-474



Version
1.0

Revision Date:
26.01.2026

SDS Number (Internal):
100000026084

Date of last issue: -
Date of first issue: 26.01.2026

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SikaPower®-474

Recommended use of the chemical and restrictions on use

Product use : Adhesive, For professional users only.

Manufacturer or supplier's details

Company : Sika Korea Ltd.
724, Anseongmatchum-daero
Miyang-myeon
Anseong-si
Gyeonggi-do
Korea

Telephone : +82-31-8056-7777

Emergency telephone number : +82-31-8056-7777

E-mail address : ehs@kr.sika.com

Telefax : +82-31-8056-7788

2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation : Category 1

Serious eye damage/eye irritation : Category 2A

Skin sensitisation : Category 1

Carcinogenicity : Category 1A

Long-term (chronic) aquatic hazard : Category 2

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

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H319 Causes serious eye irritation.
H350 May cause cancer.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing mist or vapours.
P264 Wash skin 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.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
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.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container according to waste-related laws

Other hazards which do not result in classification

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

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Chemical name	Common Name	CAS-No.	Concentration (% w/w)
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	25068-38-6	\geq 30 - < 35
Aliphatic polyurethane prepolymer polyoxyalkylene based, blocked	Aliphatic polyurethane prepolymer polyoxyalkylene based, blocked	1256351-42-4	\geq 5 - < 10
adipohydrazide	adipohydrazide	1071-93-8	\geq 5 - < 10
calcium oxide	calcium oxide	1305-78-8	\geq 5 - < 10
amorphous silicon dioxide	amorphous silicon dioxide	67762-90-7	\geq 5 - < 10
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether	3101-60-8	\geq 1 - < 5
mequinol	mequinol	150-76-5	0 - < 1
Quartz RCS (respirable crystalline silica)	Quartz RCS (respirable crystalline silica)	14808-60-7	\geq 0.1 - < 1

4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
- In case of eye contact : Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- If inhaled : Move to fresh air.
Consult a physician after significant exposure.

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- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Obtain medical attention.
- Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.
Causes serious eye irritation.
May cause cancer.
Causes severe burns.
sensitising effects
Allergic reactions
See Section 11 for more detailed information on health effects and symptoms.
- Notes to physician : Treat symptomatically.
-

5. FIREFIGHTING MEASURES

Suitable and unsuitable extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
-

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Deny access to unprotected persons.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.
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7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8).
Do not get in eyes, on skin, or on clothing.
For personal protection see section 8.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Follow standard hygiene measures when handling chemical products
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Store in accordance with local regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
calcium oxide	1305-78-8	TWA	2 mg/m ³	KR OEL
		TWA	2 mg/m ³	ACGIH
mequinol	150-76-5	TWA	5 mg/m ³	KR OEL
		TWA	5 mg/m ³	ACGIH
Quartz RCS (respirable crystalline silica)	14808-60-7	TWA (Respirable fraction)	0.05 mg/m ³	KR OEL
	Further information: Sufficient evidence of carcinogenicity in humans			
		TWA (Respirable particulate matter)	0.025 mg/m ³	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m ³ (Silica)	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m ³	ACGIH

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		TWA (Respirable particulate matter)	0.025 mg/m ³ (Silica)	ACGIH
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Other ingredients, which are listed in section 3 but not listed in this section, do not have established occupational exposure limit values.

Personal protective equipment. Among the following personal protective equipment, the PPEs which require safety certification need to be certified by KOSHA.

- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
- Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : paste
- Colour : blue
- Odour : odourless
- Odour Threshold : No data available
- pH : Not applicable substance/mixture is non-soluble (in water)
- Melting point/ range / Freezing point : No data available
- Boiling point/boiling range : No data available

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Flash point : > 150 °C (> 302 °F)

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper/lower flammability or explosive limits

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : 0.01 hPa

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Density : 1.3 g/cm³ (20 °C)

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions : Reactivity:
No dangerous reaction known under conditions of normal use.
Chemical stability:
The product is chemically stable.
Possibility of hazardous reactions:
Stable under recommended storage conditions.

Conditions to avoid : No data available

Incompatible materials : No data available

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Hazardous decomposition products : No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : No data available

Health hazard information

Acute toxicity

No data available

Components:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700):

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 20,000 mg/kg

amorphous silicon dioxide:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 3,466 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rabbit): 6,000 mg/kg

mequinol:

Acute oral toxicity : LD50 Oral (Rat): 1,630 mg/kg

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Result : Eye irritation
Method : OECD Test Guideline 405

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Respiratory or skin sensitisation

Respiratory sensitisation

No data available

Skin sensitisation

May cause an allergic skin reaction.

Carcinogenicity

May cause cancer.

Components:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700):

No data available

Aliphatic polyurethane prepolymer polyoxyalkylene based, blocked:

No data available

adipohydrazide:

No data available

calcium oxide:

No data available

amorphous silicon dioxide:

No data available

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether:

No data available

mequinol:

No data available

Quartz RCS (respirable crystalline silica):

May cause cancer.

Germ cell mutagenicity

No data available

Components:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700):

No data available

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Aliphatic polyurethane prepolymer polyoxyalkylene based, blocked:

No data available

adipohydrazide:

No data available

calcium oxide:

No data available

amorphous silicon dioxide:

No data available

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether:

No data available

mequinol:

No data available

Quartz RCS (respirable crystalline silica):

No data available

Reproductive toxicity

No data available

Components:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700):

No data available

Aliphatic polyurethane prepolymer polyoxyalkylene based, blocked:

No data available

adipohydrazide:

No data available

calcium oxide:

No data available

amorphous silicon dioxide:

No data available

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether:

No data available

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mequinol:

Suspected of damaging fertility or the unborn child.

Quartz RCS (respirable crystalline silica):

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

No data available

Aspiration toxicity

No data available

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Product:

Remarks : Toxicology data for the components
Information given is based on data on the components and
the toxicology of similar products.
Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1.8 mg/l
aquatic invertebrates Exposure time: 48 h

adipohydrazide:

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Toxicity to fish : LC50 (Fish): 1 - 10 mg/l
Exposure time: 96 h

Toxicity to algae/aquatic plants : EC50 (algae): 1 - 10 mg/l
Exposure time: 72 h

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether:

Toxicity to fish : LC50 (Salmo irideus (Rainbow Trout)): 7.5 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 67.9 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 9 mg/l
Exposure time: 72 h

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Send to a licensed waste management company.

The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.

Do not re-use empty containers.

Disposal precautions

Dispose of contents and container according to wastes control act.

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14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(epoxy resin, p-tert-butylphenyl 1-(2,3-epoxy)propyl ether)
Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3077
Proper shipping name : Environmentally hazardous substance, solid, n.o.s., Environmentally hazardous substance, solid, n.o.s.
(epoxy resin, p-tert-butylphenyl 1-(2,3-epoxy)propyl ether)
Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo aircraft) : 956
Packing instruction (passenger aircraft) : 956
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(epoxy resin, p-tert-butylphenyl 1-(2,3-epoxy)propyl ether)
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

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

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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15. REGULATORY INFORMATION

National regulatory information

Regulation under the Occupational Safety and Health Act

Harmful Substances Prohibited from Manufacturing

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Harmful Agents to be kept below Occupational Exposure Limits

Chemical name	CAS-No.
Limestone	1317-65-3
Calcium oxide	1305-78-8
Soapstone	14807-96-6
Talc (Containing no asbestos fibers)	
4-Methoxyphenol	150-76-5
Silica (Crystalline quartz)	14808-60-7
Diatomaceous earth	7631-86-9

Harmful Agents Required to be kept below Permission Levels

Not applicable

Hazardous substances requiring management

Not applicable

Special Management Materials

Not applicable

Controlled Substances Subject to Environment Monitoring

Chemical name	CAS-No.	Threshold limits (%)
Silica	14808-60-7	

Controlled Substances Subject to Health Examination

Chemical name	CAS-No.	Threshold limits (%)
Mineral dusts	14807-96-6	
Mineral dusts	7631-86-9	

Hazardous Substances Subject to Process Safety Management (PSM) Reporting Obligation

Not applicable

K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 1)

Category
Corrosive substances
Acute toxic substances (inhalation)

K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 9)

Category	Manufacturing or handling quantity
Corrosive substances	300 kilogram
Acute toxic substances (inhalation)	100 kilogram

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Regulation under the Chemicals Control Act

Toxic Chemicals

Not applicable

Restricted Chemicals

Not applicable

Prohibited Chemicals

Not applicable

Toxic Release Inventory

Chemical name	CAS-No.	Group	Threshold limits (%)
4,4'-(1-Methylethylidene)bisphenol polymer with (chloromethyl)oxirane	25068-38-6	Group II	>= 1 %

Accident Precaution Chemicals

Not applicable

Dangerous Substances Safety Management Act

Not Applicable to Dangerous Materials

International Chemical Weapons Convention (CWC) : Not applicable

Schedules of Toxic Chemicals and Precursors

라. Wastes Control Act

Industrial general wastes

Follow article 13 of the act to dispose the product waste

마. Other requirements in domestic and other countries

The components of this product are reported in the following inventories:

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

16. OTHER INFORMATION

Issuing date : 26.01.2026

Revision number and date

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Date format : yyyy/mm/dd

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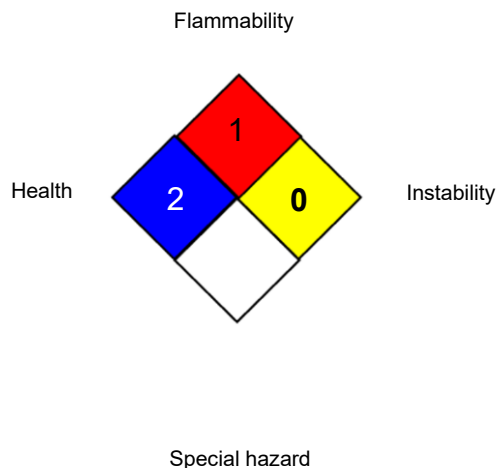
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NFPA:



Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
KR OEL	:	Harmful Agents to be kept below Occupational Exposure Limits
ACGIH / TWA	:	8-hour, time-weighted average
KR OEL / TWA	:	Time Weighted Average
ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	:	Chemical Abstracts Service
DNEL	:	Derived no-effect level
EC50	:	Half maximal effective concentration
GHS	:	Globally Harmonized System
IATA	:	International Air Transport Association
IMDG	:	International Maritime Code for Dangerous Goods
LD50	:	Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50	:	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	:	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	:	Occupational Exposure Limit
PBT	:	Persistent, bioaccumulative and toxic
PNEC	:	Predicted no effect concentration
REACH	:	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency
SVHC	:	Substances of Very High Concern
vPvB	:	Very persistent and very bioaccumulative

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KR / EN