Sikagard®-61 TZ Part B



SECTION 1: Identification of the hazardous chemical and of the supplier

Product name : Sikagard®-61 TZ Part B

Product code : 100000006814

Type of product : liquid

Recommended use of the chemical and restrictions on use

Product use : For professional users only., Epoxy coating

Manufacturer or supplier's details

Company : Sika Kimia Sdn. Bhd.

Lot 689 Nilai Industrial Estate

71800 Nilai

 Telephone
 : +60 6799 1762

 Telefax
 : +60 6799 1980

 E-mail address
 : EHS@my.sika.com

Emergency telephone

number Contact point : -

SECTION 2: Hazards identification

Classification of the hazardous chemical

Skin corrosion/irritation : Category 1B

Serious eye damage/eye

irritation

Category 1

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

Reproductive toxicity : Category 2

Hazardous to the aquatic environment - chronic hazard

: Category 2

Label elements

Hazard pictograms







Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing

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difficulties if inhaled.

H361f Suspected of damaging fertility.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention**:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling. P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

P281 Use personal protective equipment as required. P285 In case of inadequate ventilation wear respiratory

protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER or doctor/ physician.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P391 Collect spillage.

Other hazards which do not result in classification

None known.

SECTION 3: Composition and information of the ingredients of the hazardous chemical

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (%)
4-tert-butylphenol	98-54-4	>= 10 - < 25
m-phenylenebis(methylamine)	1477-55-0	>= 10 - < 25
ethylenediamine	107-15-3	>= 1 - < 3
trimethylhexane-1,6-diamine	25620-58-0	>= 2.5 - < 3

SECTION 4: First aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

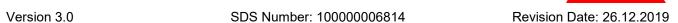
If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

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Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with

difficulty.

In case of eye contact Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses.

Keep eye wide open while rinsing.

If swallowed Clean mouth with water and drink afterwards plenty of water.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Take victim immediately to hospital.

Most important symptoms and effects, both acute and

delayed

Health injuries may be delayed.

corrosive effects sensitising effects Asthmatic appearance Allergic reactions

Dermatitis

See Section 11 for more detailed information on health effects

and symptoms.

May cause an allergic skin reaction. Causes serious eye damage.

May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Suspected of damaging fertility.

Causes severe burns.

Notes to physician : Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Physicochemical hazards arising from the chemical

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: No hazardous combustion products are known

Special protective equipment and precautions for fire-fighters

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing : Collect contaminated fire extinguishing water separately. This

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methods must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

SECTION 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.

SECTION 7: Handling and storage

Handling

Precautions for safe handling

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours or spray mist.

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

Storage

Conditions for safe storage, including any incompatibilities

Conditions for safe storage : Store in original container.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Store in accordance with local regulations.

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SECTION 8: Exposure controls and personal protection

Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis	
m-phenylenebis(methylamine)	1477-55-0	CEIL	0.1 mg/m3	MY PEL	
	Further information: Skin				
		С	0.1 mg/m3	ACGIH	
ethylenediamine	107-15-3	TWA	10 ppm 25 mg/m3	MY PEL	
	Further information: Skin				
		TWA	10 ppm	ACGIH	

Individual protection measures, such as personal protective equipment

Eye/face protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

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.

Use respiratory protection unless adequate local exhaust Respiratory protection

> 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.

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.

SECTION 9: Physical and chemical properties

Appearance : liquid

Colour various

Odour characteristic

Odour Threshold No data available

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pH : No data available

Melting point/range / Freezing

point

: No data available

Boiling point/boiling range : No data available

Flash point : $> 100 \,^{\circ}\text{C} \, (> 212 \,^{\circ}\text{F})$

Method: closed cup

Evaporation rate : No data available

Flammability : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 19.9983 hPa (15.000 mmHg)

Relative vapour density : No data available

Density : ca. 1.33 g/cm3 (20 °C (68 °F) ())

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Molecular weight : No data available

SECTION 10: Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

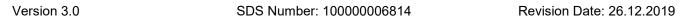
Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Conditions to avoid : No data available

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Incompatible materials : No data available

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Information on likely routes of : None known.

exposure

Acute toxicity

Not classified based on available information.

Components:

m-phenylenebis(methylamine):

: LD50 Oral (Rat): 930 mg/kg Acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): 1.34 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rat): > 3,100 mg/kg

ethylenediamine:

Acute oral toxicity : LD50 Oral (Rat): 866 mg/kg

Acute inhalation toxicity : LC50 (Rat): 14.7 mg/l

> Exposure time: 4 h Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rat): 560 mg/kg

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Suspected of damaging fertility.

STOT - single exposure

Not classified based on available information.

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STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

Ecotoxicity

Components:

m-phenylenebis(methylamine):

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 10 - 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l

Exposure time: 48 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.

SECTION 13: Disposal information

Disposal methods

Waste from residues : 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.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14: Transport information

International Regulations

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UNRTDG

UN number : UN 2735

Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.

(3,6-diazaoctanethylenediamin)

Class : 8
Packing group : III
Labels : 8

IATA-DGR

UN/ID No. : UN 2735

Proper shipping name : Amines, liquid, corrosive, n.o.s.

(3,6-diazaoctanethylenediamin)

Class : 8 Packing group : III

Labels : Corrosive Packing instruction (cargo : 856

aircraft)

Packing instruction : 852

(passenger aircraft)

IMDG-Code

UN number : UN 2735

Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.

(3,6-diazaoctanethylenediamin)

Class : 8
Packing group : III
Labels : 8
EmS Code : F-A, S-B
Marine pollutant : yes

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

Not applicable for product as supplied.

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.

SECTION 15: Regulatory information

Safety, health, and environmental regulations specific for the hazardous chemical

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

International Chemical Weapons Convention (CWC) : Not applicable

Schedules of Toxic Chemicals and Precursors

SECTION 16: Other information

Date format : dd.mm.yyyy

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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.

Changes as compared to previous version!