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SECTION 1. IDENTIFICATION

Product name : Sikadur®-31 SBA Normal Set (55-95 °F) Part B

Company name : Sika Corporation

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USA

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Emergency telephone : CHEMTREC: 800-424-9300

INTERNATIONAL: +1-703-527-3887

Recommended use of the

chemical and restrictions on

use

For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion : Category 1C

Serious eye damage : Category 1

Skin sensitization : Category 1

Carcinogenicity (Inhalation) : Category 1A

Specific target organ toxicity :

- single exposure

Category 3 (Respiratory system)

Specific target organ toxicity

- repeated exposure

Category 1 (Lungs)

GHS label elements

Hazard pictograms :







Signal Word : Danger



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Hazard Statements : H314 Causes severe skin burns and eve damage.

> H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H350 May cause cancer by inhalation.

H372 Causes damage to organs (Lungs) through prolonged or

repeated exposure.

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 mist or vapors.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.

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/ shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

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/ doctor.

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

attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tiahtly closed.

P405 Store locked up.

Disposal:

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

Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.



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Other hazards

Intentional misuse by deliberate concentration and inhalation of vapor may be harmful or fatal.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No.	Classification	Concentra-
			tion (% w/w)
Quartz (SiO2) >5µm	14808-60-7	Carc. 1A; H350	>= 30 - < 50
		STOT RE 1; H372	
		STOT SE 3; H335	
Polyoxypropylene diamine	9046-10-0	Skin Corr. 1C; H314	>= 5 - < 10
		Eye Dam. 1; H318	
Ethanol, 2,2'-[1,2-	131324-11-3	Skin Irrit. 2; H315	>= 5 - < 10
ethanediylbis(oxy)]bis-, reaction		Eye Irrit. 2B; H320	
products with ammonia		Skin Sens. 1; H317	
Isophoronediamine	2855-13-2	Acute Tox. 4; H302	>= 5 - < 10
		Skin Corr. 1B; H314	
		Eye Dam. 1; H318	
		Skin Sens. 1A; H317	
2,4,6-	90-72-2	Skin Corr. 1C; H314	>= 1 - < 5
tris(dimethylaminomethyl)phenol		Eye Dam. 1; H318	
Benzyl alcohol	100-51-6	Acute Tox. 4; H302	>= 1 - < 5
		Acute Tox. 4; H332	
		Eye Irrit. 2A; H319	
triethylenetetramine	112-24-3	Acute Tox. 4; H302	>= 0.1 - < 1
-		Acute Tox. 4; H312	
		Skin Corr. 1B; H314	
		Eye Dam. 1; H318	
		Skin Sens. 1; H317	
Complex epoxy resin/amine adducts	Not Assigned	Acute Tox. 4; H302	>= 0.1 - < 1
	-	Skin Sens. 1; H317	

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

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.

Immediate medical treatment is necessary as untreated



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wounds from corrosion of the skin heal slowly and with difficul-

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

sue 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.

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

Do not induce vomiting without medical advice.

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 irritant effects sensitizing effects

Cough

Respiratory disorder Allergic reactions

Dermatitis

May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May cause cancer by inhalation.

Causes damage to organs through prolonged or repeated

exposure.

Causes severe burns.

Notes to physician Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Further information 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.

for fire-fighters

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

SECTION 6. ACCIDENTAL RELEASE MEASURES



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Personal precautions, protec- :

tive equipment and emer-

Environmental precautions

gency procedures

Use personal protective equipment. Deny access to unprotected persons.

Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Local authorities should be advised if significant spillages

cannot be contained.

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

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 sensitization 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 ap-

plication area.

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage Store in original container.

> Keep in a well-ventilated place. Observe label precautions.

Store in accordance with local regulations.

Materials to avoid **Explosives**

> Oxidizing agents Poisonous gases Dangerous when wet Flammable solids Organic peroxides

Poisonous liquids

Spontaneously Combustible Substances

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters



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Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Quartz (SiO2) >5μm	14808-60-7	TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH
		TWA (Res- pirable dust)	0.05 mg/m3	OSHA Z-1
		TWA (respir- able)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respir- able)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (respir- able dust fraction)	0.1 mg/m3	OSHA P0
		TWA (Res- pirable par- ticulate mat- ter)	0.025 mg/m3 (Silica)	ACGIH
		PEL (respir- able)	0.05 mg/m3	OSHA CARC
		TWA (respir- able dust fraction)	0.1 mg/m3	OSHA P0
		TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	0.025 mg/m3 (Silica)	ACGIH

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Engineering measures

Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Respiratory protection

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk as-

sessment indicates this is necessary.

The filter class for the respirator must be suitable for the max-

imum expected contaminant concentration



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(gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-

contained breathing apparatus must be used.

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 nec-

essary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

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

tration and amount of dangerous substances, and to the spe-

cific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling

the product.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Color : gray

Odor : amine-like

Odor Threshold : No data available

pH : Not applicable

Melting point/range / Freezing :

point

No data available

Boiling point/boiling range : No data available

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

(Method: closed cup)

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available



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0.02 hpa Vapor pressure

Relative vapor density No data available

Density 1.9 g/cm3 (73 °F / 23 °C)

Solubility(ies)

Water solubility slightly soluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature

No data available

Decomposition temperature No data available

Viscosity

No data available Viscosity, dynamic

Viscosity, kinematic > 20.5 mm2/s (104 °F / 40 °C)

Explosive properties No data available

Oxidizing properties No data available

Volatile organic compounds

4 g/l

A+B Combined (VOC) content

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 reac- :

Stable under recommended storage conditions.

Conditions to avoid No data available

Incompatible materials No data available

Hazardous decomposition

products

No decomposition if stored and applied as directed.



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SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Components:

Polyoxypropylene diamine:

Acute oral toxicity : LD50 Oral (Rat): 2,880 mg/kg

Ethanol, 2,2'-[1,2-ethanediylbis(oxy)]bis-, reaction products with ammonia:

Acute oral toxicity : LD50 Oral (Rat): 6,000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 8,000 mg/kg

Isophoronediamine:

Acute oral toxicity : LD50 Oral (Rat): 1,030 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 10 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 - 5,000 mg/kg

2,4,6-tris(dimethylaminomethyl)phenol:

Acute oral toxicity : LD50 Oral (Rat): 2,169 mg/kg

Benzyl alcohol:

Acute oral toxicity : LD50 Oral (Rat): 1,620 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4.178 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

triethylenetetramine:

Acute oral toxicity : LD50 Oral (Rat): 1,716 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 1,465 mg/kg

Skin corrosion/irritation

Causes severe burns.

Product:

Method : In Vitro Membrane Barrier Test Method for Skin Corrosion -

CORROSITEX

Result : Corrosive after 1 to 4 hours of exposure



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Components:

2,4,6-tris(dimethylaminomethyl)phenol:

Species : Rabbit
Assessment : Corrosive

Method : OECD Test Guideline 404

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

2,4,6-tris(dimethylaminomethyl)phenol:

Species : Rabbit

Assessment : Causes serious eye damage.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

May cause cancer by inhalation.

IARC Group 1: Carcinogenic to humans

Quartz (SiO2) 14808-60-7

(Silica dust, crystalline)

OSHA OSHA specifically regulated carcinogen

Quartz (SiO2) 14808-60-7

(crystalline silica)

NTP Known to be human carcinogen

Quartz (SiO2) 14808-60-7

(Silica, Crystalline (Respirable Size))

Reproductive toxicity

Not classified due to lack of data.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Causes damage to organs (Lungs) through prolonged or repeated exposure.

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.



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Aspiration toxicity

Not classified due to lack of data.

Further information

Product:

Quartz (14808-60-7): This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding,

cutting, or other surface preparation activities.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Polyoxypropylene diamine:

Toxicity to algae/aquatic

plants

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

EC50 (Daphnia magna (Water flea)): 80 mg/l

Exposure time: 48 h

Isophoronediamine:

Toxicity to algae/aguatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): > 10 - 100

EC50 (Pseudokirchneriella subcapitata (algae)): 15 mg/l

mg/l

NOEC (Desmodesmus subspicatus (green algae)): 1.5 mg/l

2,4,6-tris(dimethylaminomethyl)phenol:

Toxicity to algae/aquatic

plants

: EC50 (Scenedesmus capricornutum (fresh water algae)): > 10

- 100 mg/l

Benzyl alcohol:

Toxicity to fish LC50 (Fish): > 100 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

triethylenetetramine:

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia): 10 - 100 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic EC50 (Pseudokirchneriella subcapitata (green algae)): 10 -

11 / 15



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100 mg/l plants

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 infor-

mation

Do not empty into drains; dispose of this material and its con-

tainer in a safe way.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues Disposal of this product, solutions and any by-products should

> at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. UN 3267

Proper shipping name Corrosive liquid, basic, organic, n.o.s.

(Polyoxypropylenediamine, 3-aminomethyl-3,5,5-

trimethylcyclohexylamine)

Class 8 Packing group Ш

Labels Corrosive 856

Packing instruction (cargo

aircraft)

Packing instruction (passen-

852

ger aircraft)

IMDG-Code



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UN number : UN 3267

Proper shipping name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

(Polyoxypropylenediamine, 3-aminomethyl-3,5,5-

trimethylcyclohexylamine)

Class : 8
Packing group : III
Labels : 8
EmS Code : F-A, S-B
Marine pollutant : no

Domestic regulation

49 CFR

UN/ID/NA number : UN 3267

Proper shipping name : Corrosive liquid, basic, organic, n.o.s.

(Polyoxypropylenediamine, 3-aminomethyl-3,5,5-

trimethylcyclohexylamine)

Class : 8 Packing group : III

Labels : CORROSIVE

ERG Code : 153 Marine pollutant : no

DOT: For Limited Quantity exceptions reference 49 CFR 173.154 (b)

IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

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

TSCA list : All chemical substances in this product are either listed as ac-

tive on the TSCA Inventory or are in compliance with a TSCA

Inventory exemption.

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Respiratory or skin sensitization

Carcinogenicity



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Specific target organ toxicity (single or repeated exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

★ WARNING: This product can expose you to chemicals including Quartz (SiO2) >5µm, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA CARC : OSHA Specifically Regulated Chemicals/Carcinogens

OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

ACGIH / TWA : 8-hour, time-weighted average OSHA CARC / PEL : Permissible exposure limit (PEL) OSHA P0 / TWA : 8-hour time weighted average OSHA Z-1 / TWA : 8-hour time weighted average OSHA Z-3 / TWA : 8-hour time weighted average

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

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