

# SAFETY DATA SHEET

## Sikadur®-31 CF Normal Part B



Version  
2.1

Revision Date:  
14.11.2020

SDS Number:  
100000006804

Date of last issue: 15.02.2019  
Date of first issue: 07.12.2016

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

#### Product identifier

Product name : Sikadur®-31 CF Normal Part B

Product code : 100000006804

#### Recommended use of the chemical and restrictions on use

Product use : Adhesive, Product is not intended for consumer use

#### 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 : -

### SECTION 2: Hazards identification

#### Classification of the hazardous chemical

Skin corrosion/irritation : Category 1B

Serious eye damage/eye irritation : Category 1

Skin sensitisation : Category 1

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.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.

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P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face 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.  
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

### Components

Chemical name	CAS-No.	Concentration (% w/w)
benzyl alcohol	100-51-6	>= 5 -< 10
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	>= 3 -< 5
3,6-diazaoctanethylenediamin	112-24-3	>= 3 -< 5
(1-methylethyl)-1,1'-biphenyl	25640-78-2	>= 3 -< 5
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	>= 1 -< 3
Adduct IA (epoxy amine adduct)	68609-08-5	>= 1 -< 2.5

## 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.  
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

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- 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  
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.  
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 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

#### Special protective equipment and precautions for fire-fighters

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

- 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.
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### SECTION 6: Accidental release measures

- Personal precautions, protection : Use personal protective equipment.
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tive equipment and emergency procedures

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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### 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 : 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.  
Observe label precautions.  
Store in accordance with local regulations.

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### SECTION 8: Exposure controls and personal protection

#### Control parameters

Contains no substances with occupational exposure limit values.

#### Individual protection measures, such as personal protective equipment

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

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- 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.
- 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.
- 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.
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### SECTION 9: Physical and chemical properties

- Appearance : paste
- Colour : dark grey
- Odour : amine-like
- Odour Threshold : No data available
- pH : > 11 (20 °C (68 °F))  
Concentration: 500 g/l
- Melting point/range / Freezing point : No data available
- Boiling point/boiling range : No data available
- Flash point : > 101 °C (214 °F)  
(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
- Vapour pressure : 0.07 hPa
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Relative vapour density : No data available

Density : ca. 1.94 g/cm<sup>3</sup> (20 °C (68 °F))

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

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

Auto-ignition temperature : Not applicable

: No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 20.5 mm<sup>2</sup>/s ( 40 °C (104 °F))

Explosive properties : No data available

Oxidizing properties : No data available

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### 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

Incompatible materials : No data available

No decomposition if stored and applied as directed.

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### SECTION 11: Toxicological information

Information on likely routes of exposure : None known.

#### Acute toxicity

Not classified based on available information.

#### Components:

**benzyl alcohol:**

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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

### **3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

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

Acute inhalation toxicity : LC50 (Rat): > 5.01 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

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

### **3,6-diazaoctanethylenediamin:**

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

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

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

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

### **Adduct IA (epoxy amine adduct):**

Acute oral toxicity : LD50 Oral (Rat, female): 300 - < 2,000 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**

Not classified based on available information.

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Carcinogenicity**

Not classified based on available information.

#### **Reproductive toxicity**

Not classified based on available information.

#### **STOT - single exposure**

Not classified based on available information.

#### **STOT - repeated exposure**

Not classified based on available information.

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### Aspiration toxicity

Not classified based on available information.

## SECTION 12: Ecological information

### Ecotoxicity

#### Components:

##### **benzyl alcohol:**

Toxicity to fish : LC50 (Fish): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates Exposure time: 48 h

##### **3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

Toxicity to algae/aquatic : ErC50 (Desmodesmus subspicatus (green algae)): > 10 - 100  
plants mg/l  
Exposure time: 72 h

##### **3,6-diazaoctanethylenediamin:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 10 - 100 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): 10 -  
plants 100 mg/l  
Exposure time: 72 h

##### **(1-methylethyl)-1,1'-biphenyl:**

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 0.167 mg/l  
aquatic invertebrates Exposure time: 48 h

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

Toxicity to algae/aquatic : EC50 (Scenedesmus capricornutum (fresh water algae)): > 10  
plants - 100 mg/l  
Exposure time: 72 h

##### **Adduct IA (epoxy amine adduct):**

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (algae)): 3.13 mg/l  
plants Exposure time: 72 h

Toxicity to fish (Chronic tox- : LC50 (Danio rerio (zebra fish)): 1.62 mg/l  
icity) Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1.75 mg/l  
aquatic invertebrates (Chron- Exposure time: 48 h  
ic toxicity)



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### 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

#### UNRTDG

UN number : UN 1759  
Proper shipping name : CORROSIVE SOLID, N.O.S.  
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, (1-methylethyl)-1,1'-biphenyl)  
Class : 8  
Packing group : III  
Labels : 8

#### IATA-DGR

UN/ID No. : UN 1759  
Proper shipping name : Corrosive solid, n.o.s.  
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, (1-methylethyl)-1,1'-biphenyl)  
Class : 8  
Packing group : III  
Labels : Corrosive

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Packing instruction (cargo aircraft) : 864  
Packing instruction (passenger aircraft) : 860

### IMDG-Code

UN number : UN 1759  
Proper shipping name : CORROSIVE SOLID, N.O.S.  
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, (1-methylethyl)-1,1'-biphenyl)  
Class : 8  
Packing group : III  
Labels : 8  
EmS Code : F-A, S-B  
Marine pollutant : yes

### IMDG-Code

Alkalis

### 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

### Full text of other abbreviations

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

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- LD50 : Median lethal dose (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

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 !

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