

**PRODUCT AND COMPANY IDENTIFICATION**

Product Code	SKDSB04A
Product Name	Sikadur 31 SBA -04 Part A
Product Description	Two component thixotropic epoxy resin based adhesive for concrete.
Manufacturer/Supplier	Sika Limited Watchmead Welwyn Garden City Hertfordshire. AL7 1BQ tel. 01707 394444 Fax. 01707 329129

COMPOSITION/INFORMATION ON THE COMPONENTS**Preparation - Hazardous ingredients (Europe)**

Component	Concentration	Classification	Risk Phrases
1) Epoxy resin(mol.wt. <700)	10.00% - 25.00%	Xi, N	R36/38, R43, R51/53
2) 1,4-bis(2,3 epoxypropoxy)butane)	2.50% - 10.00%	Xn	R20/21, R36/38, R43, R52/53

HAZARD IDENTIFICATION

Main Hazards	Irritating to eyes and skin. May cause sensitisation by skin contact.
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FIRST AID MEASURES

Eye Contact	Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention urgently.
Skin Contact	Wipe off as much as possible with a clean dry cloth. Wash skin thoroughly with soap and water. Solvents should not be used to clean skin because they may increase the penetration of the material.
Ingestion	Wash out mouth with water. Obtain medical attention.
Inhalation	Remove from exposure. In cases of possible respiratory irritation or if feeling unwell in cases of prolonged exposure, obtain medical attention.

FIRE FIGHTING MEASURES

Extinguishing Media	Not readily combustible. Use foam, dry chemical or carbon dioxide.
Extinguishing Media - Not suitable	Do not use water jet.
Special Hazards of Product	Thermal decomposition or burning may release oxides of carbon, nitrogen and other toxic gases and vapours.
Protective Equipment for Fire-Fighting	Wear full protective clothing and self-contained breathing apparatus.

**ACCIDENTAL RELEASE MEASURES**

<i>Personal Precautions</i>	Wear appropriate protective clothing.
<i>Environmental Precautions and Clean-up Methods</i>	Try to prevent the material from entering drains or water courses.
<i>Spillages</i>	Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

HANDLING AND STORAGE

<i>Handling</i>	Exposure by inhalation or skin contact should be minimised by good Industrial Hygienic practices.
<i>Storage</i>	Use in well ventilated area. Storage area should be: cool, dry. Storage temperature should be controlled to between 5 and 25 °C. Store in the original container securely closed. Keep away from foodstuffs

EXPOSURE CONTROLS/PERSONAL PROTECTION

<i>Respiratory Protection</i>	Respiratory protection not normally required.
<i>Hand Protection</i>	Chemical resistant gloves.
<i>Eye Protection</i>	Chemical goggles.

PHYSICAL AND CHEMICAL PROPERTIES

<i>Physical State</i>	Paste.
<i>Color</i>	Off-white.
<i>pH</i>	Not applicable.
<i>Flash Point °C</i>	Exceeds 100.
<i>Solubility - Water</i>	Insoluble.
<i>Density (kg/m³)</i>	Approx. 2000.
<i>Viscosity (at 20°C)</i>	Thixotropic paste
<i>Decomposition temperature °C</i>	Over 300°C

STABILITY AND REACTIVITY

<i>Stability</i>	Stable under normal conditions.
<i>Materials to avoid</i>	Acids Amines Phenols alkalis
<i>Hazardous Decomposition Products</i>	Heating may produce: oxides of carbon. acrid smoke and irritating fumes.

TOXICOLOGICAL INFORMATION

<i>Acute toxicity</i>	Low order of acute toxicity.
<i>Eye irritation</i>	Irritating to the eyes.
<i>Skin irritation</i>	Prolonged contact may cause irritation. May cause sensitisation.
<i>Sensitization - Skin</i>	The low molecular weight epoxy resin is a potential skin sensitiser

**ECOLOGICAL INFORMATION**

<i>Mobility</i>	The product is insoluble in water.
<i>Persistence/degradability</i>	The product is expected to be not readily biodegradable.
<i>Ecotoxicity</i>	The product may be harmful to aquatic organisms.


DISPOSAL

<i>Product Disposal</i>	Dispose of as Special Waste. Arrange for disposal via a licensed waste contractor.
<i>Container Disposal</i>	Handle with care and dispose in a safe manner. Empty containers may contain hazardous residues.

TRANSPORT INFORMATION

<i>ADR/RID Proper shipping name</i>	Not Regulated under ADR/RID
<i>IMDG : Proper shipping name</i>	Not Regulated under IMDG
<i>IATA : Proper shipping name</i>	Not Regulated under ICAO

REGULATORY INFORMATION

<i>Label Requirements</i>	Irritant 
<i>Risk Phrases</i>	Irritating to eyes and skin. May cause sensitisation by skin contact.
<i>Safety Phrases</i>	Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves. After contact with skin, wash immediately with plenty of: soap and water. Contains epoxy constituents. See information supplied by the manufacturer.

OTHER INFORMATION

<i>First Issue Date</i>	21.12.1994
<i>Revisions Highlighted</i>	Composition / information on ingredients Handling and Storage Physical and Chemical Properties Stability and Reactivity Toxicological Information
<i>Uses and Restrictions</i>	Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by the use of the product is undertaken.



SAFETY DATA SHEET

Sikadur 31 SBA -04 Part A

Date of issue - 25/06/2001.

SKDSB04A

UK Legislation

Health and Safety at Work etc Act, 1974, and relevant Statutory Provisions.

SI 1993/1746: Chemicals (Hazard Information and Packaging) Regulations, 1993.

SI 1999/437: The Control of Substances Hazardous to Health Regulations

SI No 2839 1991 Environmental Protection (Duty of Care) Regulations.

SI No. 972/1996: The Special Waste Regulations 1996

Approved Code of Practice- Management of Health and Safety at Work, HSE

General Approved Code of Practice to COSHH Regulations, HSE
EH26, Occupational Skin Diseases: Health and Safety Precautions, HSE.

UK Guidance Publications

Footnote

The information contained in this SDS 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 Technical Data Sheet prior to use.

**PRODUCT AND COMPANY IDENTIFICATION**

Product Code	SKDSB04B
Product Name	Sikadur 31 SBA -04 Part B
Product Description	Two component thixotropic epoxy resin based adhesive for concrete.
Manufacturer/Supplier	Sika Limited Watchmead Welwyn Garden City Hertfordshire. AL7 1BQ tel. 01707 394444 Fax. 01707 329129

COMPOSITION/INFORMATION ON THE COMPONENTSPreparation - Hazardous ingredients (Europe)

Component	Concentration	Classification	Risk Phrases
1) Trimethylhexamethylene diamine	10.00% - 25.00%	C	R22, R34, R43, R52/53

HAZARD IDENTIFICATION

Main Hazards	Causes burns. May cause sensitisation by skin contact.
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FIRST AID MEASURES

Eye Contact	Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Eyelids should be held away from the eyeball to ensure thorough rinsing. Obtain medical attention urgently.
Skin Contact	Wipe off as much as possible with a clean dry cloth. If material proves difficult to remove, use suitable skin cleanser (not solvent). Solvents should not be used to clean skin because they may increase the penetration of the material. Contaminated clothing should be washed or dry-cleaned before re-use.
Ingestion	Do not induce vomiting. Have victim drink 1-3 glasses of water to dilute stomach contents. Obtain medical attention.
Inhalation	Remove from exposure. In cases of possible respiratory irritation or if feeling unwell in cases of prolonged exposure, obtain medical attention.

FIRE FIGHTING MEASURES

Extinguishing Media	Not readily combustible. Use foam, dry chemical or carbon dioxide.
Extinguishing Media - Not suitable	Do not use water jet.
Special Hazards of Product	Thermal decomposition or burning may release oxides of carbon, nitrogen and other toxic gases and vapours.
Protective Equipment for Fire-Fighting	Wear full protective clothing and self-contained breathing apparatus.

**ACCIDENTAL RELEASE MEASURES**

<i>Personal Precautions</i>	Wear appropriate protective clothing.
<i>Environmental Precautions and Clean-up Methods</i>	Try to prevent the material from entering drains or water courses.
<i>Spillages</i>	Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

HANDLING AND STORAGE

<i>Handling</i>	Avoid contact with eyes, skin and clothing. Mix in a well ventilated area.
<i>Storage</i>	Storage area should be: cool. dry. Storage temperature should be controlled to between 5 and 25 °C. Store in the original container securely closed . Keep away from foodstuffs

EXPOSURE CONTROLS/PERSONAL PROTECTION

<i>Respiratory Protection</i>	Respiratory protection not normally required.
<i>Hand Protection</i>	Chemical resistant gloves. The insides of gloves must be kept scrupulously clean.
<i>Eye Protection</i>	Chemical goggles.

PHYSICAL AND CHEMICAL PROPERTIES

<i>Physical State</i>	Paste.
<i>Color</i>	Grey.
<i>Odor</i>	Ammoniacal.
<i>pH</i>	Not applicable.
<i>Flash Point °C</i>	Exceeds 100.
<i>Solubility - Water</i>	Partially soluble.
<i>Density (kg/m3)</i>	Approx. 1.8.
<i>Viscosity (at 20°C)</i>	Thixotropic paste

STABILITY AND REACTIVITY

<i>Stability</i>	Stable under normal conditions.
<i>Materials to avoid</i>	Acids oxidizing agents
<i>Hazardous Decomposition Products</i>	Heating may produce: ammonia. oxides of carbon. oxides of nitrogen. acid smoke and irritating fumes.

TOXICOLOGICAL INFORMATION

<i>Acute toxicity</i>	Low order of acute toxicity
<i>Eye irritation</i>	Gross exposures or untreated mild exposures can lead to chemical burning and ulceration of the eye.
<i>Skin irritation</i>	Frequent or prolonged skin contact may cause some local short term skin irritation.
<i>Sensitization - Skin</i>	May cause sensitisation.

**ECOLOGICAL INFORMATION**

<i>Mobility</i>	The product is sparingly soluble in water.
<i>Persistence/degradability</i>	The rate of biodegradation will be governed by the low water solubility.
<i>Ecotoxicity</i>	The product may be harmful to aquatic organisms.


DISPOSAL

<i>Product Disposal</i>	Dispose of as Special Waste. Arrange for disposal via a licensed waste contractor.
<i>Container Disposal</i>	Empty containers may contain hazardous residues. This material and its container must be disposed of as hazardous waste.

TRANSPORT INFORMATION

<i>UN : UN number</i>	1759
<i>UN : Proper shipping name</i>	Corrosive solid, n.o.s. (contains Trimethylhexamethylenediamine)
<i>UN : Class</i>	8
<i>UN : Packing Group</i>	3
<i>ADR/RID Substance Identification Number</i>	1759
<i>ADR/RID Class</i>	8
<i>ADR/RID Item Number</i>	65(c)
<i>ADR/RID Hazard Identification Number</i>	80
<i>IMDG : Proper shipping name</i>	Corrosive solid, N.O.S. contains Trimethylhexamethylenediamine
<i>IMDG : Packing Group</i>	3
<i>IMDG : Class</i>	8
<i>IMDG : Ems Number</i>	8-15
<i>IMDG : MFAG Number</i>	760
<i>IATA : Proper shipping name</i>	Corrosive solid N.O.S Trimethylhexamethylenediamines
<i>IATA : Packing Group</i>	3
<i>IATA : Class</i>	8

REGULATORY INFORMATION

<i>Label Requirements</i>	Corrosive 
<i>Risk Phrases</i>	Causes burns. May cause sensitisation by skin contact.
<i>Safety Phrases</i>	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).



SAFETY DATA SHEET
Sikadur 31 SBA -04 Part B

Date of issue - 25/06/2001.

SKDSB04B

OTHER INFORMATION

<i>First Issue Date</i>	21.12.1994
<i>Revisions Highlighted</i>	Composition and Information on Ingredients Toxicological Information Ecological Information Disposal.
<i>Uses and Restrictions</i>	Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by the use of the product is undertaken.
<i>UK Legislation</i>	Health and Safety at Work etc Act, 1974, and relevant Statutory Provisions. SI 1993/1746: Chemicals (Hazard Information and Packaging) Regulations, 1993. SI 1999/437: The Control of Substances Hazardous to Health Regulations SI No 2839 1991 Environmental Protection (Duty of Care) Regulations.
<i>UK Guidance Publications</i>	SI No. 972/1996: The Special Waste Regulations 1996 EH26, Occupational Skin Diseases: Health and Safety Precautions, HSE . Approved Code of Practice - Management of Health and Safety at Work
<i>Footnote</i>	Approved Code of Practice to COSHH Regulations, HSE The information contained in this SDS 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 Technical Data Sheet prior to use.