



Sikadur 31 PBA Normal/Low Temperature Part A

Date of issue - 22/03/2001.

SKD31PBNA

PRODUCT AND COMPANY IDENTIFICATION

Product Code SKD31PBNA
Product Name Sikadur 31 PBA Normal/Low Temperature Part A
Product Description 2-component epoxy resin adhesive for structural steel plate reinforcement.
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) Butanedioldiglycidyl ether	3.00 - 10.00	Xn	R20/21, R36/38, R43
2) Epoxy resin(mol.wt. <700)	15.00 - 35.00	Xi	R36/38, R43

HAZARD IDENTIFICATION

Main Hazards Irritating to eyes and skin.
May cause sensitisation by skin contact.
Misuse of this product due to lack of personal protection or care may result in dermatitis

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.

**Sikadur 31 PBA Normal/Low Temperature
Part A**

Date of issue - 22/03/2001.

SKD31PBNA

ACCIDENTAL RELEASE MEASURES***Personal Precautions***

Wear appropriate protective clothing.

***Environmental Precautions and
Clean-up Methods
Spillages***

Try to prevent the material from entering drains or water courses.

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

HANDLING AND STORAGE***Handling***

Use in well ventilated area.

Storage

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***Respiratory Protection***

Respiratory protection not normally required.

Hand Protection

Wear suitable gloves e.g. Nitrile rubber gloves.

Eye Protection

Chemical goggles.

PHYSICAL AND CHEMICAL PROPERTIES***Physical State***

Paste.

Color

Off-white.

pH

Not applicable.

Flash Point °C

Exceeds 200.

Solubility - Water

Insoluble.

Vapor Pressure (kPa)

Negligible vapour pressure at ambient conditions.

Density (kg/m3)

1.5. Approx.

Viscosity (at 20°C)

Thixotropic paste

Decomposition temperature °C

Over 200°C

STABILITY AND REACTIVITY***Stability***

Stable under normal conditions.

Materials to avoid

Concentrated mineral acids. Bases. Oxidising agents.

Hazardous Decomposition Products

Heating may produce: oxides of carbon. oxides of nitrogen. acrid smoke and irritating fumes.

TOXICOLOGICAL INFORMATION***Acute toxicity***

All components have oral LD50s (rat) greater than 3000mg/kg.

Sensitization - Skin

Due to the content of components classified as sensitising a sensitising effect of the product on skin contact is possible.

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Part A**

Date of issue - 22/03/2001.

SKD31PBNA

ECOLOGICAL INFORMATION

<i>Mobility</i>	The product is insoluble in water.
<i>Persistence/degradability</i>	The product is expected to be resistant to biodegradation.
<i>Bioaccumulative potential</i>	Exhibits a high potential.


DISPOSAL

<i>Product Disposal</i>	This material will be classified as a 'special waste' under the COPA (Special Waste) Regulations 1980 and must be disposed of in accordance with those regulations.
<i>Container Disposal</i>	Empty containers may contain hazardous residues. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate.

TRANSPORT INFORMATION

<i>UN : UN number</i>	None assigned.
<i>ADR/RID Class</i>	Non Hazardous
<i>IMDG : Class</i>	Non Hazardous
<i>IATA : Class</i>	Non Hazardous

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. 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>	07.10.1994
<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 PBA Normal/Low Temperature
Part A

Date of issue - 22/03/2001.

SKD31PBNA

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

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SKD31PBNA

Footnote

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**Sikadur 31 PBA Low Temperature Part B**

Date of issue - 22/03/2001.

SKD31PBLB

PRODUCT AND COMPANY IDENTIFICATION

Product Code	SKD31PBLB
Product Name	Sikadur 31 PBA Low Temperature Part B
Product Description	2-component epoxy resin adhesive for structural steel plate reinforcement.
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	15.00 - 40.00	C	R22, R34, R43, R52/53

HAZARD IDENTIFICATION

Main Hazards	Harmful if swallowed. Causes burns. May cause sensitisation by skin contact. Misuse of this product due to lack of personal protection or care may result in dermatitis
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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.
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****Personal Precautions**

Wear appropriate protective clothing.

**Environmental Precautions and
Clean-up Methods
Spillages**

Try to prevent the material from entering drains or water courses.

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

HANDLING AND STORAGE**Handling**

Avoid contact with eyes, skin and clothing. Mix in a well ventilated area.

Storage

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**Respiratory Protection**

Respiratory protection not normally required.

Hand Protection

Wear suitable impervious gloves. The nature of the work in hand will determine the choice of gloves. The insides of gloves must be kept scrupulously clean.

Eye Protection

Chemical goggles.

PHYSICAL AND CHEMICAL PROPERTIES**Physical State**

Paste.

Color

Dark Grey.

Odor

Ammoniacal.

pH

Not applicable.

Flash Point °C

Exceeds 100.

Solubility - Water

Partially soluble.

Vapor Pressure (kPa)

Negligible vapour pressure at ambient conditions.

Density (kg/m³)

1.5. Approx.

Viscosity (at 20°C)

Thixotropic paste

Decomposition temperature °C

Decomposition in air begins around 250 °C.

STABILITY AND REACTIVITY**Stability**

Stable under normal conditions.

Materials to avoid

Concentrated mineral acids.

Hazardous Decomposition Products

Heating may produce: ammonia. oxides of carbon. oxides of nitrogen. acrid smoke and irritating fumes.

TOXICOLOGICAL INFORMATION**Acute toxicity**

Oral LD50 (rat) 910mg/kg. (based on major component)

Sensitization - Skin

The product is likely to possess a markedly sensitising effect.

**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. Tests on the following species gave a 48h LC50 of 172mg/litre: fish (data on main component(s))


DISPOSAL

<i>Product Disposal</i>	This material will be classified as a 'special waste' under the COPA (Special Waste) Regulations 1980 and must be disposed of in accordance with those regulations.
<i>Container Disposal</i>	Empty containers may contain hazardous residues. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate.

TRANSPORT INFORMATION

<i>UN :</i>	<i>UN number</i>	1760
<i>UN :</i>	<i>Proper shipping name</i>	Corrosive liquid, n.o.s. (contains Trimethylhexamethylenediamine)
<i>UN :</i>	<i>Class</i>	8
<i>UN :</i>	<i>Packing Group</i>	3
<i>ADR/RID :</i>	<i>Class</i>	8
<i>IMDG :</i>	<i>Proper shipping name</i>	Corrosive liquid, N.O.S.
<i>IMDG :</i>	<i>Packing Group</i>	3
<i>IMDG :</i>	<i>Class</i>	8
<i>IMDG :</i>	<i>MFAG Number</i>	8147
<i>IATA :</i>	<i>Proper shipping name</i>	Trimethylhexamethylenediamines
<i>IATA :</i>	<i>Packing Group</i>	3
<i>IATA :</i>	<i>Class</i>	8

REGULATORY INFORMATION

<i>Label Requirements</i>	Corrosive 
<i>Risk Phrases</i>	Harmful if swallowed. Causes burns. 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. After contact with skin, wash immediately with plenty of: soap and water. 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).

**OTHER INFORMATION*****First Issue Date***

17.11.1994

Revisions Highlighted

Future revisions will incorporate such information as is required but which is not available at this time.

Uses and Restrictions

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.

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

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