

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

Date of issue - 23/06/2004.

SKD31PBNA

1. 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

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

Component	CAS/EINECS	Concentration	Classification	Risk Phrases
Epoxy resin (No.Av. mol.wt. < 700)	25068-38-6	25.00% - 50.00%	Xi, N	R36/38, R43, R51/53
1,4-bis(2,3 epoxypropoxy)butane)	2425-79-8	2.50% - 10.00%	Xn	R20/21, R36/38, R43, R52/53
Nonyl Phenol	25154-52-3	1.00% - 2.50%	C, N	R22, R34, R50/53

3. HAZARD IDENTIFICATION

Main Hazards	Irritating to eyes and skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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4. 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.

5. 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	Combustion will produce smoke, carbon dioxide and carbon monoxide.
Protective Equipment for Fire-Fighting	Wear full protective clothing and self-contained breathing apparatus.



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6. 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.

7. HANDLING AND STORAGE

<i>Handling</i>	Use in 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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<i>Engineering Control Measures</i>	Use of the basic principles of Industrial Hygiene will enable this material to be used safely
<i>Respiratory Protection</i>	Respiratory protection not normally required.
<i>Hand Protection</i>	Wear suitable gloves e.g. Nitrile rubber gloves.
<i>Eye Protection</i>	Chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

<i>Physical State</i>	Paste.
<i>Color</i>	Off-white.
<i>Odor</i>	Odorless.
<i>Flash Point °C</i>	Exceeds 100.
<i>Solubility - Water</i>	Insoluble.
<i>Density (kg/m3)</i>	1400 - 1500
<i>Autoignition Temperature °C</i>	> 300
<i>Viscosity (at 20°C)</i>	Thixotropic paste

10. STABILITY AND REACTIVITY

<i>Stability</i>	Stable under normal conditions.
<i>Hazardous Decomposition Products</i>	carbon oxides (CO, CO ₂)

11. TOXICOLOGICAL INFORMATION

<i>Acute toxicity</i>	Low order of acute toxicity
<i>Eye irritation</i>	Irritating to the eyes.
<i>Skin irritation</i>	Frequent or prolonged skin contact may cause some local short term skin irritation.
<i>Sensitization - Skin</i>	The low molecular weight epoxy resin is a potential skin sensitiser The possibility of allergic sensitisation should be considered

12. 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>	This material is harmful to aquatic organisms.



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13. DISPOSAL

Product Disposal

Dispose of as Special Waste.
Arrange for disposal via a licensed waste contractor.

Container Disposal

Empty packaging should be removed by a licensed waste contractor.

14. TRANSPORT INFORMATION

ADR/RID : Number

3082

ADR/RID : Proper shipping name

Environmentally hazardous substance, liquid, n.o.s.
contains Epoxy Resin

ADR/RID : Class

ADR/RID : Item Number

11 c Class M6

IMDG : Proper shipping name

Environmentally hazardous substance, liquid, n.o.s.
contains Epoxy resin.

IMDG : Packing Group

3

IMDG : Class

9

IMDG : Ems Number

F-A, S-F

IATA : Proper shipping name

Environmentally hazardous substance, liquid, n.o.s.
contains epoxy resin

IATA : Packing Group

3

IATA : Class

9

15. REGULATORY INFORMATION

Label Requirements

Irritant, Dangerous for the environment



Risk Phrases

Irritating to eyes and skin.
May cause sensitisation by skin contact.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

Avoid contact with skin.
Wear suitable gloves.

Contains epoxy constituents. See information supplied by the manufacturer.

Contains

reaction product: bisphenol A-(epichlorhydrin)
epoxy resin (no. av. mol. wt <= 700)
1,4-bis(2,3 epoxypropoxy)butane

16. OTHER INFORMATION

First Issue Date

07.10.1994

Revisions Highlighted

Composition / information on ingredients
Main Hazards
Transport Information
Regulatory Information

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.



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UK Legislation

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

SI 2002/1689: Chemicals (Hazard Information and Packaging) Regulations, 2002.

SI 2002/2677: The Control of Substances Hazardous to Health Regulations

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

Footnote

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

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.

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Code	SKD31PBNB
Product Name	Sikadur 31 PBA Normal 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

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

Component	CAS/EINECS	Concentration	Classification	Risk Phrases
Trimethylhexamethylene diamine	25620-58-0	25.00% - 50.00%	C	R22, R34, R43, R52/53

3. HAZARD IDENTIFICATION

Main Hazards	Harmful if swallowed. Causes burns. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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4. 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. 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.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use foam, dry chemical or carbon dioxide.
Extinguishing Media - Not suitable	Do not use water jet.
Special Hazards of Product	Combustion will generate oxides of carbon and nitrogen
Protective Equipment for Fire-Fighting	Wear full protective clothing and self-contained breathing apparatus.



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Sikadur 31 PBA Normal Part B

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6. 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.

7. 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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<i>Engineering Control Measures</i>	Use of the basic principles of Industrial Hygiene will enable this material to be used safely
<i>Respiratory Protection</i>	Respiratory protection not normally required.
<i>Hand Protection</i>	Wear suitable impervious gloves. (butyl / nitrile type) The insides of gloves must be kept scrupulously clean.
<i>Eye Protection</i>	Chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

<i>Physical State</i>	Paste.
<i>Color</i>	Black.
<i>Odor</i>	Amine like.
<i>Flash Point °C</i>	Exceeds 100.
<i>Solubility - Water</i>	Immiscible
<i>Density (kg/m3)</i>	Approx. 1500
<i>Viscosity (at 20°C)</i>	Thixotropic paste

10. STABILITY AND REACTIVITY

<i>Stability</i>	Stable under normal conditions.
<i>Hazardous Decomposition Products</i>	carbon oxides (CO, CO2) nitrogen oxides (NO, NO2...)

11. TOXICOLOGICAL INFORMATION

<i>Acute toxicity</i>	Low order of acute toxicity
<i>Eye irritation</i>	Material is corrosive to the eye
<i>Skin irritation</i>	The material is corrosive to the skin.
<i>Sensitization - Skin</i>	The possibility of allergic sensitisation should be considered May cause allergic reactions to certain individuals.

12. 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>	This material is harmful to aquatic organisms.



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13. DISPOSAL

Product Disposal

Dispose of as Special Waste.
Arrange for disposal via a licensed waste contractor.

Container Disposal

Empty containers retain product residue and can be hazardous.
Empty packaging should be removed by a licensed waste contractor.

14. TRANSPORT INFORMATION

UN : UN number

1759

UN : Class

8

UN : Packing Group

3

ADR/RID : Number

1759

ADR/RID : Proper shipping name

Corrosive solid, n.o.s.

ADR/RID : Class

contains Trimethylenehexamethylenediamine

ADR/RID : Item Number

65 (c) Class C10

IMDG : Proper shipping name

Corrosive solid, n.o.s.

IMDG : Packing Group

contains Trimethylenehexamethylenediamine

IMDG : Class

3

IMDG : Ems Number

8

IATA : Proper shipping name

F-A, S-B

IATA : Packing Group

Corrosive solid, n.o.s.

IATA : Class

contains Trimethylenehexamethylenediamine

3

8

15. REGULATORY INFORMATION

Label Requirements

Corrosive



Risk Phrases

Harmful if swallowed.

Causes burns.

May cause sensitization by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

Avoid contact with skin.

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).

Contains

Trimethylhexane-1,6-diamine

16. OTHER INFORMATION

First Issue Date

07.10.1994

Revisions Highlighted

Composition / information on ingredients

Main Hazards

Toxicological Information

Ecological Information

Regulatory Information

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.



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Footnote

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