

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Code	SKD41A
Product Name	Sikadur 41 Normal Part A
Product Description	3-Component epoxy resin based patching and repair mortar.
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	10.00% - 25.00%	Xi, N	R36/38, R43, R51/53
Aliphatic glycidyl ether	68609-97-2	2.50% - 10.00%	Xi, N	R36/38, R43, R51/53
Nonyl Phenol	25154-52-3	1.00% - 2.50%	C, N	R22, R34, R50/53, R62, R63

3. HAZARD IDENTIFICATION

Main Hazards	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.
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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. 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.
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 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>	Off-white.
<i>Odor</i>	Characteristic.
<i>Flash Point °C</i>	170
<i>Solubility - Water</i>	Insoluble.
<i>Density (kg/m³)</i>	Approx. 1700 at 20 °C.
<i>Autoignition Temperature °C</i>	370
<i>Viscosity (at 20°C)</i>	Thixotropic paste

10. STABILITY AND REACTIVITY

<i>Stability</i>	Stable under normal conditions.
<i>Hazardous Decomposition Products</i>	Heating may produce: oxides of carbon. acrid smoke and irritating fumes.

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 sensitizer. The possibility of allergic sensitisation should be considered



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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.

13. DISPOSAL

<i>Product Disposal</i>	Hazardous waste. Arrange for disposal via a licensed waste contractor.
<i>Container Disposal</i>	Dispose of containers with care. Empty containers may contain hazardous residues. Empty packaging should be removed by a licensed waste contractor.

14. TRANSPORT INFORMATION

<i>UN : UN number</i>	3082
<i>UN : Packing Group</i>	3
<i>ADR/RID : Number</i>	3082
<i>ADR/RID : Proper shipping name</i>	Environmentally hazardous substance, liquid, n.o.s. contains Epoxy Resin
<i>ADR/RID : Class</i>	
<i>ADR/RID : Item Number</i>	11(c) Class M6
<i>IMDG : Proper shipping name</i>	Environmentally hazardous substance, liquid, N.O.S. contains Epoxy Resin
<i>IMDG : Packing Group</i>	3
<i>IMDG : Class</i>	3
<i>IMDG : Marine Pollutant</i>	No
<i>IMDG : Ems Number</i>	F-A, S-F
<i>IATA : Proper shipping name</i>	Environmentally hazardous substance, liquid, N.O.S. contains Epoxy Resin
<i>IATA : Packing Group</i>	3
<i>IATA : Class</i>	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 (number average molecular weight <= 700)
oxirane, mono[(C12-14-alkyloxy)methyl]derivs.



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16. OTHER INFORMATION

<i>First Issue Date</i>	21.12.1994
<i>Revisions Highlighted</i>	Composition / information on ingredients
<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 2002/1689 Chemicals (Hazard Information and Packaging) Regulations SI 2002/2677: The Control of Substances Hazardous to Health Regulations SI No 2839 1991 Environmental Protection (Duty of Care) Regulations. SI 2005/ 894 Hazardous waste regulations 2005
<i>UK Guidance Publications</i>	General Approved Code of Practice to COSHH Regulations, HSE.
<i>Footnote</i>	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	SKD41B
Product Name	Sikadur 41 Normal Part B
Product Description	3-Component epoxy resin based patching and repair mortar.
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
Benzyl Alcohol	100-51-6	10.00% - 25.00%	Xn	R20/22
Isophoronediamine	2855-13-2	2.50% - 10.00%	C	R21/22, R34, R43, R52/53
2,4,6-Tri(dimethylaminomethyl) phenol	90-72-2	2.50% - 10.00%	Xn	R22, R36/38
Solvent Naptha (petroleum) heavy aromatic.	64742-94-5	2.50% - 10.00%	Xn, N	R51/53, R65, R66
Triethylenetetramine	112-24-3	2.50% - 10.00%	C	R21, R34, R43, R52/53

3. HAZARD IDENTIFICATION

Main Hazards	Harmful if swallowed. Causes burns. May cause sensitisation 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. Obtain medical attention urgently.
Skin Contact	Wipe off as much as possible with a clean dry cloth. Wash skin thoroughly with soap and water. 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.



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5. FIRE FIGHTING MEASURES

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

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>	Exposure by inhalation or skin contact should be minimised by good Industrial Hygiene practices. 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>	Dark Grey.
<i>Odor</i>	Ammoniacal.
<i>pH</i>	Approx. 11 at 10% w/w in water.
<i>Flash Point °C</i>	Exceeds 100.
<i>Explosion Limits (%)</i>	Lower limit 1.00 Upper limit 6.00
<i>Solubility - Water</i>	Partially soluble.
<i>Vapor Pressure (kPa)</i>	Negligible vapour pressure at ambient conditions.
<i>Density (kg/m³)</i>	Approx. 1650 at 20 °C.
<i>Autoignition Temperature °C</i>	300
<i>Viscosity (at 20°C)</i>	Thixotropic paste



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10. STABILITY AND REACTIVITY

<i>Stability</i>	Stable under normal conditions.
<i>Hazardous Decomposition Products</i>	Heating may produce: ammonia. oxides of carbon. oxides of nitrogen. acrid smoke and irritating fumes.

11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

<i>Mobility</i>	The product is sparingly soluble 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.

13. DISPOSAL

<i>Product Disposal</i>	Dispose of as Special Waste. Arrange for disposal via a licensed waste contractor.
<i>Container Disposal</i>	Dispose of containers with care. Empty containers may contain hazardous residues. Empty packaging should be removed by a licensed waste contractor.

14. TRANSPORT INFORMATION

<i>UN : UN number</i>	1759
<i>UN : Proper shipping name</i>	Corrosive solid, n.o.s. (contains Triethylenetetramine)
<i>UN : Class</i>	8
<i>UN : Packing Group</i>	3
<i>ADR/RID : Number</i>	1759
<i>ADR/RID : Proper shipping name</i>	Corrosive solid, N.O.S. (contains Triethylenetetramine)
<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 Triethylenetetramine)
<i>IMDG : Packing Group</i>	3
<i>IMDG : Class</i>	8
<i>IMDG : Ems Number</i>	8-15
<i>IATA : Proper shipping name</i>	Corrosive solid, N.O.S. (contains Triethylenetetramine)
<i>IATA : Packing Group</i>	3
<i>IATA : Class</i>	8



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15. REGULATORY INFORMATION

Label Requirements

Corrosive



Risk Phrases

Harmful if swallowed.
Causes burns.
May cause sensitisation 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.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Wear suitable protective clothing, gloves and eye/face protection.

16. OTHER INFORMATION

First Issue Date

21.12.1994

Revisions Highlighted

Hazards Identification
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.

UK Legislation

Health and Safety at Work etc Act, 1974, and relevant Statutory Provisions.
Chemicals (Hazard Information and Packaging) Regulations, 2002.
SI 1999/437: The Control of Substances Hazardous to Health Regulations
SI No. 972/1996: The Special Waste Regulations 1996
SI No 2839 1991 Environmental Protection (Duty of Care) Regulations.

UK Guidance Publications

Approved Code of Practice - Management of Health and Safety at Work, HSE.
General Approved Code of Practice to COSHH Regulations, HSE.

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.

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Code SKD41C
Product Name Sikadur 41 Normal /Rapid Part C
Product Description 3-Component epoxy resin based patching and repair mortar.
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
Calcium carbonate	1317-65-3	2.50% - 10.00%	-	-
Pulverised fuel ash	68131-74-8	10.00% - 25.00%	-	-

3. HAZARD IDENTIFICATION

Main Hazards The product is a blend of fine washed and kiln dried silica sands and inert fillers
Respirable dusts could if inhaled over a prolonged period constitute a health hazard.

4. FIRST AID MEASURES

Eye Contact Wash out eye with plenty of water.
Obtain medical attention if soreness or redness persists.

Skin Contact Wash skin with soap and water.

Ingestion Wash out mouth with water. Do not induce vomiting.
Obtain medical attention.

Inhalation Remove from exposure.

5. FIRE FIGHTING MEASURES

Extinguishing Media Not combustible.

Special Hazards of Product None.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Wear appropriate protective clothing.

Environmental Precautions and Clean-up Methods Try to prevent the material from entering drains or water courses.

Spillages Avoid creating a dust.
Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.



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7. HANDLING AND STORAGE

Handling

Mix in a well ventilated area.

Storage

Avoid inhaling dust.
Storage area should be: dry.
Store in the original container securely closed .

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits - GB

Calcium carbonate

UK EH40: OES 10mg/M3 (total inhalable dust)

UK EH40: OES 4 mg/M3 (respirable dust)

Pulverised fuel ash

UK EH40: OES 10mg/ M3 (total inhalable dust)

UK EH40: OES 4 mg/ M3 (respirable dust)

Engineering Control Measures

Every effort should be made to prevent airborne dusts arising during mixing operations.

Exposure should be kept as low as reasonably practicable by the application of hygiene principles and appropriate techniques.

Respiratory Protection

Good ventilation should be provided to keep airborne dust levels below exposure limits.

If limits are exceeded use an approved dust mask.

Hand Protection

Wear suitable impervious gloves.

Eye Protection

Wear safety glasses if risks of accidental contamination are possible during application.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Powder.

Color

Grey.

Odor

None.

Solubility - Water

Insoluble.

Density (kg/m³)

Approx. 1600. (loose)

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to avoid

None known.

Materials to avoid

None known.

Hazardous Decomposition Products

None known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Low order of acute toxicity.

Eye irritation

Abrasion will likely cause transient irritation.

Skin irritation

Unlikely to cause irritation from occasional contact



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12. ECOLOGICAL INFORMATION

Mobility The product is insoluble in water.
Persistence/degradability The product is resistant to biodegradation.

13. DISPOSAL

Product Disposal Incineration or landfill.
Container Disposal Empty packaging may be disposed along with normal builders waste via an authorised waste contractor.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

Risk Phrases None assigned.
Safety Phrases None assigned.
However the following are given as advisory.

Do not breathe dust.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. OTHER INFORMATION

First Issue Date 21.12.1994
Revisions Highlighted Composition / information on ingredients
Exposure Controls and Personal Protection
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.

UK Guidance Publications EH40, Occupational Exposure Limits, HSE. Revised Annually.
HS(G) 53, Respiratory Protective Equipment - a Practical Guide for Users, HSE.
EH44, Dust in the Workplace: General Principles of Protection, HSE.
HS(G) 37, An Introduction to Local Exhaust Ventilation, HSE.

Footnote EH40, Occupational Exposure Limits, HSE. Revised Annually
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