

SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION OF THE COMPANY/UNDERTAKING

Product Name: **SUPERBOND SG20 / SG30/ SG40 BASE**
Application: Base component of two part epoxy bonding agent.
Company : **SILKON ADDITIVES INDIA PVT LTD**
Address : **622-P, SECTOR-38, GURUGRAM
HARYANA-122001**

Telephone : **18001236299 / 9717887038**

EMAI : **INFO@SILKON.CO.IN**

2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition: epoxy resin, inert fillers and inorganic pigment.

Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
epoxy resin (number average molecular wt <700)		R36/38, 43	Cas No: 25068-38-6	<50

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of New Chemical Substances) or are exempt.

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Irritating to eyes and skin. May cause sensitisation by skin contact.

4: FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention urgently.

Skin: Wash immediately with soap and water or suitable skin cleanser as soon as possible. Obtain medical advice if skin disorders develop.

Inhalation: Remove from exposure.

Ingestion: Obtain medical attention urgently. Do NOT induce vomiting. Beware of aspiration if vomiting occurs.

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, powder, foam or water fog - do not use water jets.

Special Exposure Hazards: Toxic fumes.

Special Protective Equipment: Self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear suitable protective clothing, gloves and eye/face protection.

Environmental Precautions: Prevent entry into drains, sewers and water courses.

Decontamination Procedures: Soak up with inert absorbent or container and remove by best available means. Gather into containers. Dispose off as waste.

7: HANDLING AND STORAGE

Handling: Maintain good standards of personal hygiene. Avoid skin and eye contact. Do not eat, drink or smoke whilst using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage: Keep containers dry and tightly closed.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: None assigned.

Engineering Control Measures: No specific ventilation requirement noted.

Personal Protective Equipment: Impervious gloves (e.g. PVC), goggles. Change contaminated clothing immediately and clean before re-use.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Thixotropic liquid.

Colour: Off-white.

Odour: Mild.

Boiling Point/Range (°C): >200°C

Flash Point (closed, °C): >150°C

Autoflammability (°C): Not determined.

Explosive Properties (%): Not known.

Vapour Pressure (kPa at 20°C): 0.01

Relative Density (at 20°C): 1.2

Water Solubility: Insoluble.

Fat Solubility: Not determined.

10: STABILITY AND REACTIVITY

Stability: Stable: reacts with compounds containing amino, hydroxyl or carboxyl groups to give stable, cross linked materials.

Conditions to Avoid: Not known.

Materials to Avoid: Strong oxidising agents. Strong acids. Strong alkalis.

Hazardous Decomposition Products: Thermal decomposition - oxides of carbon. Toxic fumes.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components: Oral LD50, rat 2 g/kg. Classified as a skin sensitiser.

Health Effects

On Eyes:	Causes transient irritation.
On Skin:	Irritation. May cause sensitisation.
By Inhalation:	May cause respiratory irritation.
By Ingestion:	May cause irritation of mouth, throat and digestive tract.
Chronic:	Repeated or prolonged skin contact may lead to skin disorders.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed off as intended, no adverse environmental effects are foreseen.
Mobility:	Mobile liquid. Insoluble in water.
Persistence and Degradability:	Expected to be not readily biodegradable.
Bioaccumulative Potential:	Expected to be bioaccumulative.
Ecotoxicity:	Expected to be ecotoxic to fish/daphnia/algae.

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product:	Dispose of through an authorised waste contractor to a licensed site.
Used/Contaminated Product:	As for unused product.
Packaging:	Must be disposed of through an authorised waste contractor.

14: TRANSPORT INFORMATION

This product is NOT classified as dangerous for transport.

15: REGULATORY INFORMATION

Hazard Label Data:

Named Ingredients:	epoxy resin (number average molecular weight <700).
Symbol(s)	Xi
Risk Phrases:	Irritating to eyes and skin. May cause sensitisation by skin contact.
Safety Phrases:	Avoid contact with skin and eyes. 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. Contains epoxy constituents. See information supplied by the manufacturer.

EC Directives: Dangerous Substances Directive 67/548/EEC and adaptations.
Dangerous Preparations Directive, 88/379/EEC.
Safety Data Sheets Directive, 91/155/EEC.

Statutory Instruments: Chemicals (Hazard Information and Packaging) Regs. 1993 (SI 1746).
Control of Substances Hazardous to Health Regs. 1988 (SI 1657).
Health & Safety at Work, etc Act 1974.
Environmental Protection (Duty of Care) Regs 1991 (SI 2839).

Codes of Practice: Waste Management. The Duty of Care.

Guidance Notes: Occupational skin diseases: health and safety precautions (EH 26).
Storage of packaged dangerous substances [HS(G)71].

The above publications are available from HMSO.

16: OTHER INFORMATION

Also refer to the Safety Data Sheet(s) for information on other components of this product.

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from SILKON ADDITIVES INDIA PVT LTD

If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this Safety Data Sheet may be obtained from SILKON ADDITIVES INDIA PVT LTD

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SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION OF THE COMPANY/UNDERTAKING

Product Name: **SUPERBOND SG20/ SG30/ SG40 HARDENER**

Application: Hardener component of two part epoxy based bonding compound.

Company : **SILKON ADDITIVES INDIA PVT LTD**

Address : **622-P, SECTOR-38, GURUGRAM
HARYANA-122001**

Telephone : **18001236299 / 9717887038**

EMAIL : **INFO@SILKON.CO.IN**

2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition: modified cycloaliphatic amine, polyamidoamine, pigment.

Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
isophorone diamine	C	R21/22, 34, 43	Cas No: 2855-13-2	>10<25
polyamidoamine	Xi	R36, 34, 43	NA	>10<25

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of New Chemical Substances) or are exempt.

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Causes burns. Harmful in contact with skin and if swallowed. May cause sensitisation by skin contact.

4: FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention urgently.

Skin: Wash immediately with soap and water or suitable skin cleanser as soon as possible. Obtain medical advice if skin disorders develop.

Inhalation: Remove from exposure.

Ingestion: Obtain medical attention urgently. Do NOT induce vomiting. Beware of aspiration if vomiting occurs.

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, powder, foam or water.

Special Exposure Hazards: Toxic fumes. Nitrogen compounds, in some fire circumstances, hydrogen cyanide.

Special Protective Equipment: Self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear suitable protective clothing, gloves and eye/face protection.
Environmental Precautions:	Prevent entry into drains, sewers and water courses.
Decontamination Procedures:	Soak up with inert absorbent or container and remove by best available means. Gather into containers. Dispose off as waste.

7: HANDLING AND STORAGE

Handling:	Avoid breathing vapours. Maintain good standards of personal hygiene. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid skin and eye contact.
Storage:	Keep away from foodstuff and food containers. Never leave a container unsealed.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:	None assigned.
Engineering Control Measures:	Use only in well-ventilated areas. Local exhaust ventilation is recommended.
Personal Protective Equipment:	Avoid skin and eye contact. Impervious gloves (e.g. PVC), goggles. Plasticapron and overalls.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Paste.
Colour:	Black.
Odour:	Sharp. Amine.
Flash Point (closed, °C):	>100°C
Autoflammability (°C):	Not determined.
Vapour Pressure (kPa at 20°C):	0.02
Relative Density (at 20°C):	1.0
Water Solubility:	Insoluble.
Partition Coefficient (n-octanol/water):	Not determined.

10: STABILITY AND REACTIVITY

Stability:	Stable if used as directed.
Conditions to Avoid:	Temperatures below 5°C.
Materials to Avoid:	Strong oxidising agents. Strong acids.
Hazardous Decomposition Products:	Oxides of carbon. Nitrogen compounds, in some fire circumstances, hydrogen cyanide.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components: Oral LD50, rat 1000 mg/kg.

Health Effects

On Eyes:	Causes irreversible damage to eye tissue if not removed promptly.
On Skin:	Corrosive. Causes burns.
By Inhalation:	Irritating to respiratory system.
By Ingestion:	Corrosive - causes severe damage to mouth, throat and digestive tract.
Chronic:	Prolonged skin contact can result in chemical burns.
Other:	p-tertiarybutyl phenol can cause a cosmetic effect known as "occupational vitiligo" or leucoderma. It is believed that repeated contact with this substance can lead to this depigmentation of the skin in sensitive individuals.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed off as intended, no adverse environmental effects are foreseen.
Mobility:	Paste. Insoluble in water.
Persistence and Degradability:	Expected to be not readily biodegradable.
Bioaccumulative Potential:	Expected to be bioaccumulative.
Ecotoxicity:	Expected to be ecotoxic to fish/daphnia/algae.

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product: Classified as special waste. May be reacted with base component to an inert polymeric material.

Used/Contaminated Product: Classified as special waste. Dispose off through an authorised waste contractor to a licensed site.

Packaging: Must be disposed of through an authorised waste contractor.

14: TRANSPORT INFORMATION

UN/SI Number: 1760

IMO: Class: 8 Packing Group: III Marine Pollutant: Yes

IATA/ICAO: Class: 8 Packing Group: III

ADR: Class: 8 Item: 53 (c)

Transport Name: Corrosive liquids, nos. (trimethylhexamethylene diamine/nony phenol mixture)

Hazchem/Kemler Code: 2X/80

15: REGULATORY INFORMATION

Hazard Label Data:

Named Ingredients:	cycloaliphatic amine, polyamidoamine.
UN Number:	1760
Symbol(s)	C
Risk Phrases:	Causes burns. Harmful in contact with skin and if swallowed. May cause sensitisation by skin contact.
Safety Phrases:	Avoid contact with skin and eyes. 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. After contact with skin wash immediately with plenty of soap and water.
EC Directives:	Dangerous Substances Directive 67/548/EEC and adaptations. Dangerous Preparations Directive, 88/379/EEC. Safety Data Sheets Directive, 91/155/EEC.
Statutory Instruments:	Chemicals (Hazard Information and Packaging) Regs. 1993 (SI 1746). Control of Substances Hazardous to Health Regs. 1988 (SI 1657). Health & Safety at Work, etc Act 1974. Environmental Protection (Duty of Care) Regs 1991 (SI 2839). The Control of Pollution (Special Waste) Regulations 1980 (SI 1709).
Codes of Practice:	Waste Management. The Duty of Care. Classification and labelling of dangerous substances for carriage by road in tankers, tank containers & packages (L14)
Guidance Notes:	Occupational skin diseases: health and safety precautions (EH 26). Storage of packaged dangerous substances [HS(G)71].

The above publications are available from HMSO.

16: OTHER INFORMATION

Also refer to the Safety Data Sheet(s) for information on other components of this product.

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