SAFETY DATA SHEET



Date of issue - 06/07/2005.

SKFX291

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code
Product Name
Product Description

Manufacturer/Supplier

SKFX291

Sikaflex 291 One component moisture curing polyurethane based sealant/adhesive for marine applications.

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
Naphtha (Petroleum)Hydrosulphurised Heavy	64742-82-1	1.00% - 2.50%	Xn, N	R10, R51/53, R65, R66, R67
Xylene	1330-20-7	1.00% - 2.50%	Xn	R10, R20/21, R38
4, 4- methylenediphenyl diisocyanate	101-68-8	0.10% - 1.00%	Xn	R20, R36/37/38, R42/43

3. HAZARD IDENTIFICATION

Main Hazards

May cause sensitisation by inhalation.

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. Contaminated clothing should be washed or dry-cleaned before re-use.
Ingestion	Do not induce vomiting. Wash out mouth with water. Obtain medical attention.
Inhalation	Unlikely to occur. However provide symptomatic medical treatment if required.

5. FIRE FIGHTING MEASURES		
Extinguishing Media	Use water spray, foam, dry chemical or carbon dioxide.	
Special Hazards of Product	Combustion will release oxides of carbon and nitrogen with possible HCI	
Protective Equipment for Fire-Fighting	Wear full protective clothing and self-contained breathing apparatus.	



SAFETY DATA SHEET

Sikaflex 291

Date of issue - 06/07/2005.

SKFX291

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	Remove spilled/leaked product by scraping from surfaces.Allow to solidify normally.Clean surfaces with a suitable solvent.

7. HANDLING AND STORAGE

Handling

Storage

Exposure by inhalation or skin contact should be minimised by good Industrial Hygenie practices. Avoid contact with eyes, skin and clothing. Use in well ventilated area. Storage area should be: cool. dry. Storage temperature should be controlled to between 5 and 25 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits - GB	
Xylene	UK EH40: WEL 50ppm (220mg/m3) 8h TWA.
	UK EH40: WEL 100ppm (441mg/m3) 15min STEL
4, 4- methylenediphenyl diisocyanate	UK EH40: WEL 0.02mg/m3 8h TWA.
	UK EH40: WEL 0.07mg/m3 15min STEL.
Engineering Control Measures	Use of the basic principles of Industrial Hygiene will enable this
	material to be used safely.
Respiratory Protection	If limits are exceeded use an approved respirator suitable for the
	purpose.
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

ColorVariousOdorCharacteristic.Flash Point °C> 65Solubility - WaterInsoluble.Density (kg/m3)Approx. 1260 at 20 °C.Viscosity (at 20°C)Thixotropic paste	Physical State	Paste.
Flash Point °C> 65Solubility - WaterInsoluble.Density (kg/m3)Approx. 1260 at 20 °C.	Color	Various
Solubility - WaterInsoluble.Density (kg/m3)Approx. 1260 at 20 °C.	Odor	Characteristic.
Density (kg/m3) Approx. 1260 at 20 °C.	Flash Point °C	> 65
	Solubility - Water	Insoluble.
Viscosity (at 20°C) Thixotropic paste	Density (kg/m3)	Approx. 1260 at 20 °C.
	Viscosity (at 20°C)	Thixotropic paste

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Exposure to water or moisture.
Hazardous Decomposition Products	Reaction with water or moist air may produce: carbon dioxide formation resulting in pressure increase in bulk containers (risk of bursting). Combustion may also generate: oxides of carbon. oxides of nitrogen. ,hydrogen chloride.

SAFETY DATA SHEET Sikaflex 291



Date of issue - 06/07/2005.

SKFX291

11. TOXICOLOGICAL INFORMATIC	ON
Acute toxicity	Low order of acute toxicity. Persons known to be hypersensitive (asthma,chronic bronchitis,etc.) should refrain from handling the product.
Skin irritation	Frequent or prolonged skin contact may cause some local short term skin irritation.
Sensitization - Skin	The possibility of allergic sensitisation should be considered.
12. ECOLOGICAL INFORMATION	
Mobility	Because of its high viscosity, low water solubility and low degree of toxicity, this material should not present any environmental problems.
Ecotoxicity	The product is expected to be non-hazardous to aquatic species.
13. DISPOSAL	
Product Disposal	Hazardous waste. Disposal of bulk quantities and/or containers should be made through 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	
Label Requirements	Harmful
	*
Risk Phrases	May cause sensitisation by inhalation.
Safety Phrases	Do not breathe gas/fumes/vapor/spray In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	Contains isocyanates. See information supplied by the manufacturer.
Contains	4,4-methylenediphenyl diisocyanate
16. OTHER INFORMATION	
First Issue Date	04.10.1995
Revisions Highlighted	Composition/Information on the Components Exposure Controls/Personal Protection 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.

SAFETY DATA SHEET Sikaflex 291

Jika	Date of issue - 06/07/2005.	SKFX291
UK Legislation	Health and Safety at Work etc Act, 1974, and relevant Statutory Provisions.	
	SI 2002/1689: Chemicals (Hazard Information and Pa Regulations, 1993.	ackaging)
	SI 2002/2677: The Control of Substances Hazardous Regulations	to Health
	SI No 2839 1991 Environmental Protection (Duty of C Regulations.	Care)
	SI No. 972/1996: The Special Waste Regulations 19	
UK Guidance Publications	General Approved Code of Practice to COSHH Regul EH40, Occupational Exposure Limits, HSE. Revised	
Footnote	The information contained in this SDS corresponds to knowledge at the time of publication.All warranties are excluded.Our most current General Sales Conditions Please consult the Technical Data Sheet prior to use.	e shall apply.