Material Safety Data Sheet

SIKASIL WS-290 FPS

SECTION 1 – Product and Company Identification

PRODUCT NAME: SIKASIL WS-290 FPS
PRODUCT CODE: SIKASIL WS-290 FPS Silicone Sealant
ADDRESS: Sika Corporation
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Lyndhurst, NJ 07071
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REVISION DATE : 11/05/10 SUPERSEDES: 12/03/08

SECTION 2 – COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

This product consists of a mixture/preparation.

CAS Number	Ingredient	Wt. %
96-29-7	Methyl ethyl ketoxime (MEKO)	1-5
Trade Secret	Oximino silane	2-7

*The above components are hazardous as defined in 29 CFR 1910.1200

SECTION 3 – HAZARDS IDENTIFICATION

MAIN SYMPTOMS:
EYE: Direct contact may cause mild irritation. Eye contact may cause conjunctivitis, corneal damage, or severe chemical burns.
SKIN: May cause moderate irritation and possible dermal sensitization. May be absorbed through the skin.
INHALATION: Irritates respiratory passages very slightly. Vapor overexposure may cause drowsiness.
ORAL: Small amounts transferred to the mouth by fingers during use, etc. should not injure. Swallowing may injure.

COMMENTS If heated to temperatures above 150°C in the presence of air, silicones can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA permissible exposure limit for formaldehyde.

Product evolves Methyl ethyl ketoxime (MEKO) when exposed to water or humid air. Provide adequate ventilation to control MEKO within exposure guidelines or use respiratory protection – TWA: 3ppm, STEL: 10ppm; AIHA WEEL TWA: 10ppm.

Methyl alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposures within OSHA PEL guidelines – OSHA PEL: TWA 200ppm and ACGIH TLV-skin: TWA 200ppm, STEL 250ppm.

HMIS HAZARD CODES: Health: *1 Flammability: 1 Reactivity: 0 PPE: C

SECTION 4 – FIRST-AID PROCEDURES

INHALATION: Remove to fresh air. If ill effects persist, get medical attention.
SKIN CONTACT: Remove from skin and immediately flush with water for 15 minutes. Get medical attention if irritation develops or ill effects persist.
EYE CONTACT: Immediately flush with water for 15 minutes. Get medical attention.
INGESTION: Get medical attention.
COMMENTS: Treat according to person's condition and specifics of exposure.

Material Safety Data Sheet

SIKASIL WS-290 FPS

SECTION 5 – FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	On large fires, use dry chemical, foam or water spray. On small fires, use carbon dioxide (CO_2), dry chemical or water spray. Water can be used to cool fire exposed containers.
FIRE-FIGHTING PROCEDURES:	Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan.
FLASH POINT (CLOSED CUP):	Greater than 212F (100C)
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: metal oxides, silicone dioxide, carbon oxides and traces of incompletely burned carbon compounds, nitrogen oxides and formaldehyde.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Observe all personal protective equipment recommendations described in Sections 5 and 8.
ENVIRONMENTAL PRECAUTIONS:	Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state and Federal waste management regulations.
METHODS FOR CLEANING UP:	Wipe up or scrape up and contain for salvage or disposal. Final cleaning may require use of steam, solvents, or detergents. See applicable regulatory compliance information in Section 15.

SECTION 7 – HANDLING AND STORAGE

HANDLING:	Use with adequate ventilation. Product evolves Methyl ethyl ketoxime (MEKO) and methanol when exposed to water or humid air. Provide adequate ventilation to control MEKO within exposure guidelines as described in Section 3.
STORAGE:	Keep container closed and store away from water or moisture or oxidizing materials.

SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

ENGINEERING CONTROLS:

LOCAL EXHAUST:	Recommended
GENERAL VENTILATION:	Recommended

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION:	Avoid eye contact. Use proper protection, safety glasses as a minimum.
SKIN AND BODY PROTECTION:	Wash at mealtimes and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.
RESPIRATORY PROTECTION:	Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines
HYGIENE MEASURES (INGESTION):	Wash hands after handling and before eating. Do not eat, drink, or smoke when handling product.

Precautionary measures: Avoid eye contact. Avoid skin contact. Avoid breathing vapor. Keep container closed. Do not take internally.

Note: These precautions are for room temperature handling. Use at elevated temperatures or aerosol spray applications may require added precautions.

Material Safety Data Sheet

SIKASIL WS-290 FPS

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Solid (Paste)
COLOR:	Translucent
ODOR:	Oxime
FLASHPOINT:	>212F (100C)
EXPLOSION PROPERTIES:	Not Determined
VAPOR PRESSURE (AT 100°F):	Not Applicable
VAPOR DENSITY:	Not Applicable
DENSITY :	9.5 lbs/gal
SOLUBILITY IN WATER (%):	Less than 0.1
SPECIFIC GRAVITY (AT 77°F/25°C):	1.14
% VOLATILE BY VOLUME:	Less than 3%
VOLATILE ORGANIC CONTENT (VOC):	2.58% by weight; 29 g/L (0.25 lbs/gal)
NOTE:	The above information is not intended for use in preparing product specifications.

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable
HAZARDOUS POLYMERIZATION:	Hazardous polymerization will not occur.
CONDITIONS TO AVOID:	Store away from water or moisture.
MATERIALS TO AVOID:	Oxidizing material can cause a reaction.
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition products as described in Section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY:

SKIN:	Product contains oximes, possible skin sensitizers. Product also contains small quantities of methanol, which is a tissue irritant that may be absorbed through the skin and produce systemic toxic effects.
INHALATION:	Vapor overexposure may cause drowsiness, injure blood, liver and may irritate eyes, nose and throat.
ORAL:	Small amounts transferred to the mouth by fingers during use, etc., should not injure. Swallowing large amounts may injure slightly. Note that chronic exposure to methanol (skin, inhalation, or oral) may damage the central nervous system, optic nerve, kidneys, and liver, impair vision, and cause respiratory failure.
SPECIFIC EFFECTS:	Methanol overexposure may cause reproductive effects.

SECTION 12 – ECOLOGICAL INFORMATION

Complete information is not yet available.

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/l)	<=1	>1 and <=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <=2000	>2000

*This table is adapted from “Environmental Toxicology and Risk Assessment”, ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when data becomes available. Please read the other information presented in the section concerning the overall ecological safety of this material.

SECTION 13 – DISPOSAL INFORMATION

PRODUCT DISPOSAL: <u>RCRA Hazard Class (40 CFR 261)</u>
When a decision is made to discard this material, as received, is it classified as a hazardous waste? NO.
State or local laws may impose additional regulatory requirements regarding disposal.

Material Safety Data Sheet

SIKASIL WS-290 FPS

SECTION 14 – TRANSPORT INFORMATION

DOT Information (49CFR 172.101)

PROPER SHIPPING NAME:	Not Applicable
HAZARD CLASS:	Not Applicable
UN / NA NUMBER:	None
PACKING GROUP:	Not Applicable

SECTION 15 – REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

US FEDERAL REGULATIONS:

TSCA Status: All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

EPA SARA Title III Chemical Listings:

Section 302 Extremely Hazardous Substances / Section 304 CERCLA Hazardous Substances: None

Section 312 Hazard Class:

Acute: Yes
Chronic: Yes
Fire: No
Pressure: No
Reactive: No

Section 313

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act:

No chemicals found in this product exceed their individual weight percent thresholds applicable to SARA Section 313 and therefore no chemical in this product is subject to Section 313 reporting.

US STATE REGULATIONS:

This product does comply with the California Air Resources Board maximum for VOC's in a sealant.

States within the US that have promulgated State Right-to-Know regulations with chemical listing requirements including the chemicals in this product are provided below.

Chemical	*CAS No.*	*States*
Dimethyl siloxane	70131-67-8	New Jersey, New York, Massachusetts, Pennsylvania
Calcium Carbonate	1317-65-3	Massachusetts, Minnesota, Pennsylvania, Washington
Silica, amorphous	7631-86-9	Massachusetts, Pennsylvania
Trade Secret	2944800-5578	
Trade Secret	2944800-5580	

Material Safety Data Sheet

SIKASIL WS-290 FPS

INTERNATIONAL:

Canada

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Canadian DSL

All ingredients in this product are currently listed on the Canadian Domestic Substances List (DSL) ,except for a non-hazardous silane (1-5%) which is on the Canadian Schedule III Notification inventory. (Based upon the concentration of the silane in the formulation, it would require 619,000 10.1 fl.oz. cartridges of Sil 290 to reach the 10,000 kg yearly limit before reporting is required. This is equal to approximately 329 153-Gal batches of Sil 290. There is also a cumulative limit of 50,000 kg that can take many years to reach, assuming no one year exceeds the 10,000 kg limit.) The substances that are on the DSL would not be considered new for the purposes of the Canadian Environmental Protection Act (CEPA).

Note:

The recipient of this product should be aware of the possible existence of additional local regulations, which may be applicable to this product.

SECTION 16 – OTHER INFORMATION

The information contained in this Material Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Technical Data Sheet, product label and Material Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this MSDS.

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