

MATERIAL SAFETY DATA SHEET



Date Issued: 08/19/2008
 MSDS No: Sikafloor 190-H
 Date-Revised: 09/16/2008
 Revision No: 2

1. PRODUCT AND COMPANY IDENTIFICATION

GENERAL USE: Hardner

PRODUCT DESCRIPTION: Liquid Rich Abrasion Resistant Epoxy Mortar Hardner

PRODUCT CODE: Sikafloor 190-H

MANUFACTURER

Sika Corporation, Operations
 www.sikacorp.com
 201 Polito Avenue
 Lyndhurst NJ 07071
Service Number: 201-933-8800
Alternate Customer Service: Fax: 201-804-1076

SUPPLIER

Sika Corporation, Construction
 www.sikaconstruction.com
 201 Polito Avenue
 Lyndhurst NJ 07071
Product Stewardship: 201-933-8800

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation) :(800) 424 - 9300

CHEMTREC (International) :(703) 527 - 3887

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Amber Liquid

IMMEDIATE CONCERNS: Caution! Corrosive to eyes. Corrosive to skin. Severe eye irritant. Sever skin irritant. May cause respiratory sensitization. May cause skin sensitization. Combustible. Keep away from heat and source of ignition.

POTENTIAL HEALTH EFFECTS

EYES: Material (including vapors) may cause eye irritation, burns or even blindness.

SKIN: Causes skin burns.

INGESTION: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

INHALATION: Inhalation of aerosol may cause irritation to the upper respiratory tract. Can cause severe eye, skin and respiratory tract burns. May cause nose, throat, and lung irritation. Inhalation of vapors in high concentrations may cause irritation of respiratory system.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

INHALATION: Repeated and/or prolonged exposure to low concentrations of vaprs may cause: Sore throat.

CHRONIC EFFECTS: This product contains no listed carcinogens according to IARC, ACGIH, NTP, and/or OSHA in concentrations of 0.1 percent or greater. Repeated or prolonged contact causes sensitization, asthma and eczemas. Prolonged contact may result in chemical burns and permanent damage.

MEDICAL CONDITIONS AGGRAVATED: Eye disease, Skin disorders and Allergies. Adverse skin effects (such as rash, irritation or corrosion). Adverse eye effects (such as conjunctivitis or corneal damage). Asthma. Adverse respiratory effects (such as cough, tightness of chest or shortness of breath).

TARGET ORGAN STATEMENT:

Eyes

Respiratory System
Skin

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Mixed Cycloaliphatic Amines	60 - 100	Mixture	N/A
Benzyl alcohol	5 - 20	100-51-6	202-859-9

COMMENTS: The criteria for listing components in the composition section are as follows: Carcinogens are listed when present at 0.1% or greater; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater; non-hazardous components are not listed. This is not intended to be complete compositional disclosure. Refer to section 15 for applicable states right to know and other regulatory information.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for two to three minutes. Remove any contact lenses and continue flushing for 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical attention.

SKIN: Remove contaminated clothing including shoes and immediately wash affected area with plenty of soap and water. Seek medical attention. Wash contaminated clothing and shoes before reuse.

INGESTION: If victim is conscious and alert, give 2-3 glasses of water to dilute. **DO NOT INDUCE VOMITING.** Never give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

INHALATION: Remove to fresh air away from further exposure provide oxygen if breathing is difficult. Keep warm and at rest. If cough or other symptoms develop, seek medical attention.

COMMENTS: Seek medical advise. If breathing is irregular or stopped, administer artificial respiration.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: 101.67°C (215°F)

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, and water spray/fog as needed. For large fires alcohol resistant foams are preferred. Synthetic or protein foams can be used, but may not be as effective. Water may not be as effective for large fires.

HAZARDOUS COMBUSTION PRODUCTS: May generate ammonia gas. May generate toxic nitrogen oxide gases. Incomplete combustion may form carbon monoxide. Downwind personnel must be evacuated. Burning produces obnoxious and toxic fumes.

FIRE FIGHTING PROCEDURES: Do not release runoff from fire control methods to sewers or waterways.

FIRE FIGHTING EQUIPMENT: Respiratory and eye protection are required for fire fighting personnel. Full protective equipment (Bunker Gear) and self contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of a SCBA may not be required.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of the material.

Wearing the appropriate personal protective equipment designated in Section 8, move the leaking container to a containment area or rotate the container so that the opening is above the liquid level.

Absorb on diatomaceous earth or equivalent inert material. Shovel up and dispose of at an appropriate waste disposal facility according to current applicable laws and regulations, and product characteristics at time of disposal.

LARGE SPILL: Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of the material.

Wearing the appropriate personal protective equipment designated in Section 8, close or cap valves and/or block or plug hole in leaking container and transfer to another container.

Contain material as described above and call the local fire or police department for immediate emergency assistance.

ENVIRONMENTAL PRECAUTIONS

LAND SPILL: Use appropriate containment to avoid runoff or release to ground.

GENERAL PROCEDURES: Absorb on diatomaceous earth or equivalent inert material. Shovel up and dispose of at an appropriate waste disposal facility according to current applicable laws and regulations, and product characteristics at time of disposal.

COMMENTS: If possible stop flow of product.

7. HANDLING AND STORAGE

HANDLING: Avoid skin and eye contact and breathing in vapors, mists and aerosols.

STORAGE: Store only in tightly closed, properly vented containers away from heat, sparks, open flame and strong oxidizing agents.

COMMENTS: If bulging of container occurs, transfer to a well ventilated area and open carefully to relieve pressure then reseal.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Benzyl alcohol	TWA	N.E. [1]	N.E. [1]	N.E. [1]	N.E. [1]	N.E. [1]	N.E. [1]
	STEL	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
OSHA TABLE COMMENTS:							
1. N.E. = None Established							

ENGINEERING CONTROLS: Good industrial hygiene practice dictates that worker protection should be achieved through engineering controls, such as ventilation, whenever feasible. When such controls are not feasible to achieve full protection, the use of respirators and other personal protective equipment is mandated. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: When handling liquid product, chemical goggles should be worn. Chemical safety goggles in combination with a full face shield if a splash hazard exists.

SKIN: To prevent any contact, wear impervious compatible chemical resistant protective clothing such as neoprene or butyl rubber gloves, apron, boots or whole bodysuit, as appropriate.

RESPIRATORY: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

PROTECTIVE CLOTHING: Wear compatible chemical resistant protective aprons and gauntlets to prevent prolonged or repeated skin exposure.

WORK HYGIENIC PRACTICES: Facilities storing or using this material should be equipped with an eyewash facility and a safety shower.

Good personal hygiene practices should always be followed.

COMMENTS: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Ammonical

COLOR: Amber

pH: Alkaline

VAPOR PRESSURE: < 1.5 mmHg

BOILING POINT: > 147.22°C (297°F)

FLASHPOINT AND METHOD: 101.67°C (215°F)

SOLUBILITY IN WATER: Slightly soluble

DENSITY: 64.301 lb/ft³ at 21°C (70°F) (1.03 g/cm³)

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS DECOMPOSITION PRODUCTS: Nitric Acid

Ammonia

Nitrogen oxides

Nitrogen oxide can react with water vapors to form corrosive nitric acid

Carbon monoxide

Carbon dioxide

Aldehydes

INCOMPATIBLE MATERIALS: Organic acids (i.e. acetic acid, citric acid etc.)

Mineral acids

Oxidizing agents

Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Reactive metal (e.g. sodium, calcium, zinc etc.)

Materials reactive with hydroxyl compounds.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES:

Notes: Severe eye irritation.

DERMAL LD₅₀:

Notes: Severe skin irritation.

ORAL LD₅₀: 4400 mg/kg (rat)

Notes: Method: Estimated

CARCINOGENICITY

Chemical Name	NTP Status	IARC Status	OSHA Status
Benzyl alcohol	Not Listed	Not Listed	Not Listed

IARC: Not listed by IARC

NTP: Not listed by NTP

OSHA: Not listed by OSHA

SENSITIZATION: May be sensitizing to the skin.

COMMENTS: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data is available on the product itself.

COMMENTS: No environmental data available for this product.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Mix multi-component materials together and allow to harden. Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Paint

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: 3066

PACKING GROUP: III

NAERG: 153

LABEL: Corrosive

AIR (ICAO/IATA)

SHIPPING NAME: Paint

UN/NA NUMBER: 3066

PRIMARY HAZARD CLASS/DIVISION: 8

PACKING GROUP: III

LABEL: Corrosive

VESSEL (IMO/IMDG)

SHIPPING NAME: Paint

UN/NA NUMBER: 3066

PRIMARY HAZARD CLASS/DIVISION: 8

PACKING GROUP: III

LABEL: Corrosive

CANADA TRANSPORT OF DANGEROUS GOODS

SHIPPING NAME: Paint

UN/NA NUMBER: 3066

PRIMARY HAZARD CLASS/DIVISION: 8

PACKING GROUP: III

CANUTEC GUIDE: 153

LABEL: Corrosive

15. REGULATORY INFORMATION

CANADA

DOMESTIC SUBSTANCE LIST (INVENTORY): This product and/or its components are list on DSL.

EUROPEAN COMMUNITY

EUROPEAN COMMUNITY REGULATORY:

EINECS Inventory Status:

This product, or its components, are listed on or are exempt from the European Inventory of Existing Chemical Substances (EINECS) or the European List of Notified Chemical Substances (ELINCS).

Canadian Inventory Status:

This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).

Australian Inventory Status:

This product, or its components, are listed on or are exempt from the Australian Inventory of Chemical Substances (AICS).

GENERAL COMMENTS: EU Additional Classification:

Symbol of Danger: Xn(Harmful) C(Corrosive)

R 20/22 Harmful by inhalation and if swallowed.

R 34 Causes burns

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 36/37/39 Wear suitable protective clothing, gloves adn eye/face protection

16. OTHER INFORMATION

REVISION SUMMARY: Revision #: 2 This MSDS replaces the August 20, 2008 MSDS. Any changes in information are as follows:

HMIS RATING

HEALTH:	*	3
FLAMMABILITY:		1
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:	D	

MANUFACTURER DISCLAIMER: This MSDS summarizes to the best of our knowledge the health and safety hazard information and general guidance on how to safety handle the material at the date of issue. Each user must review the MSDS in the context of how the product will be handled and used in the workplace.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact

this company.

Responsibility for the product sold is subject to our standard terms and conditions, a copy of which is available upon request.