



## 1. Identification


Product name	: Sikadur®-51 SL Part B
Supplier	: Sika Corporation
Address	: 201 Polito Avenue Lyndhurst, NJ 07071 USA www.sikausa.com
Telephone	: (201) 933-8800
Telefax	: (201) 804-1076
Emergency telephone	: CHEMTREC: 800-424-9300 INTERNATIONAL: 703-527-3887 ehs@sika-corp.com
Recommended use of the chemical and restrictions on use	: For further information, refer to the product technical data sheet.

## 2. Hazards identification

### GHS Classification

Acute toxicity , Category 4 (Oral)	H302: Harmful if swallowed.
Skin corrosion , Category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage , Category 1	H318: Causes serious eye damage.
Skin sensitization , Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity , Category 1A	H350: May cause cancer.
Reproductive toxicity , Category 2	H361: Suspected of damaging fertility or the unborn child.

### GHS Label element

Hazard pictograms	: 
Signal Word	: Danger
Hazard Statements	: H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child.
Precautionary Statements	: <b>Prevention:</b> P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust or mist.



P270 Do not eat, drink or smoke when using this product.  
 P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P281 Use personal protective equipment as required.

**Response:**

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P310 Immediately call a POISON CENTER or doctor/ physician.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

Warning : Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain,liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

See Section 11 for more detailed information on health effects and symptoms.

### 3. Composition/information on ingredients

#### Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Phenol, 4-nonyl, branched	84852-15-3	>= 25 - < 50 %
Polyoxypropylenediamine	9046-10-0	>= 10 - < 20 %
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	>= 2 - < 5 %
Benzyl alcohol	100-51-6	>= 1 - < 2 %
Isophoronediamine	2855-13-2	>= 1 - < 2 %
Quartz (SiO <sub>2</sub> )	14808-60-7	>= 0 - < 1 %



There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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#### 4. First aid measures

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|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| If inhaled                                                  | : Move to fresh air.<br>Consult a physician after significant exposure.                                                                                                                                                                                                                                           |
| In case of skin contact                                     | : Take off contaminated clothing and shoes immediately.<br>Wash off with soap and plenty of water.<br>Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.                                                                                    |
| In case of eye contact                                      | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.<br>In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>Continue rinsing eyes during transport to hospital.<br>Remove contact lenses.<br>Keep eye wide open while rinsing. |
| If swallowed                                                | : Clean mouth with water and drink afterwards plenty of water.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>Take victim immediately to hospital.                                                                           |
| Most important symptoms and effects, both acute and delayed | : Health injuries may be delayed.<br>corrosive effects<br>sensitizing effects<br>carcinogenic effects<br><br>Gastrointestinal discomfort<br>Allergic reactions<br>Dermatitis<br>See Section 11 for more detailed information on health effects and symptoms.                                                      |
| Protection of first-aiders                                  | : Move out of dangerous area.<br>Consult a physician.<br>Show this material safety data sheet to the doctor in attendance.                                                                                                                                                                                        |
| Notes to physician                                          | : Treat symptomatically.                                                                                                                                                                                                                                                                                          |

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#### 5. Fire-fighting measures

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|------------------------------|-----------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Specific extinguishing       | : Collect contaminated fire extinguishing water separately. This                                          |



methods : must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Deny access to unprotected persons.

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.  
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

## 7. Handling and storage

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8).  
Do not get in eyes, on skin, or on clothing.  
For personal protection see section 8.  
Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Smoking, eating and drinking should be prohibited in the application area.  
Follow standard hygiene measures when handling chemical products.

Conditions for safe storage : Prevent unauthorized access.  
Store in original container.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Store in accordance with local regulations.

Materials to avoid : no data available

## 8. Exposure controls/personal protection

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
Limestone	1317-65-3	OSHA Z-1	TWA	15 mg/m <sup>3</sup>



				total dust
		OSHA Z-1	TWA	5 mg/m3 respirable fraction
		OSHA P0	TWA	15 mg/m3 Total
		OSHA P0	TWA	5 mg/m3 Respirable fraction
Quartz (SiO <sub>2</sub> )	14808-60-7	ACGIH	TWA	0.025 mg/m3 Respirable fraction
		OSHA Z-3	TWA	30 mg/m3 / %SiO <sub>2</sub> +2 total dust
		OSHA Z-3	TWA	10 mg/m3 / %SiO <sub>2</sub> +2 respirable
		OSHA Z-3	TWA	250 mppcf / %SiO <sub>2</sub> +5 respirable
		OSHA P0	TWA	0.1 mg/m3 Respirable fraction

\*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**\*\*Basis**

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

**Engineering measures** : Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**Personal protective equipment**

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.



The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection Remarks	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eye protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Hygiene measures	: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. Wash thoroughly after handling.

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## 9. Physical and chemical properties

Appearance	: liquid
Color	: gray
Odor	: amine-like
Odor Threshold	: no data available
Flash point	: > 212 °F (> 100 °C)
Autoignition temperature	: Remarks: not applicable
Decomposition temperature	: no data available
Lower explosion limit (Vol%)	: no data available
Upper explosion limit (Vol%)	: no data available
Flammability (solid, gas)	: no data available
Oxidizing properties	: no data available
Autoignition temperature	: no data available
pH	: no data available



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Melting point/range / Freezing point	:	no data available
Boiling point/boiling range	:	no data available
Vapor pressure	:	no data available
Density	:	1.26 g/cm <sup>3</sup> at 73 °F (23 °C)
Water solubility	:	Note: partly soluble
Partition coefficient: n-octanol/water	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	> 20.5 mm <sup>2</sup> /s at 104 °F (40 °C)
Relative vapor density	:	no data available
Evaporation rate	:	no data available
Burning rate	:	no data available
Volatile organic compounds (VOC) content	:	38 g/l A+B Combined

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## 10. Stability and reactivity

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	no data available
Incompatible materials	:	no data available

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## 11. Toxicological information

### Acute toxicity

#### Product

Acute oral toxicity	:	Harmful if swallowed.
Acute inhalation toxicity	:	no data available
Acute dermal toxicity	:	no data available



**Ingredients:**

**Phenol, 4-nonyl, branched :**

Acute dermal toxicity : LD50 Dermal rabbit: 3,160 mg/kg

**Benzyl alcohol :**

Acute oral toxicity : LD50 Oral rat: 1,230 mg/kg

Acute inhalation toxicity

: LC50 rat: 4.178 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

**Isophoronediamine :**

Acute oral toxicity : LD50 Oral rat: 1,030 mg/kg

**Skin corrosion/irritation**

**Product**

Causes severe skin burns and eye damage.

**Serious eye damage/eye irritation**

**Product**

no data available

**Respiratory or skin sensitization**

**Product**

May cause an allergic skin reaction.

**Germ cell mutagenicity**

**Product**

Mutagenicity : no data available

**Carcinogenicity**

**Product**

Carcinogenicity : May cause cancer.

**IARC**

Group 1: Carcinogenic to humans

**NTP**

Quartz (SiO<sub>2</sub>) 14808-60-7

Known to be human carcinogen

Quartz (SiO<sub>2</sub>) 14808-60-7

**Reproductive Toxicity/Fertility**

**Product**

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

**Reproductive Toxicity/Development/Teratogenicity**

**Product**





Teratogenicity : no data available

**STOT-single exposure**

**Product**

Assessment: no data available

**STOT-repeated exposure**

Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Product**

Assessment: no data available

**Aspiration toxicity**

**Product**

no data available

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**12. Ecological information**

Other information	Do not empty into drains; dispose of this material and its container in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. May be harmful to the environment if released in large quantities. Water polluting material.
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**13. Disposal considerations**

**Disposal methods**

Waste from residues	: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
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Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.
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**14. Transport information**

**DOT**

UN number	3267
Description of the goods	Corrosive liquid, basic, organic, n.o.s. (Phenol, 4-nonyl, branched, Polyoxypropylenediamine)
Class	8
Packing group	II
Labels	8
Emergency Response	153
Guidebook Number	

**IATA**

UN number	3267
Description of the goods	Corrosive liquid, basic, organic, n.o.s. (Phenol, 4-nonyl, branched, Polyoxypropylenediamine)
Class	8
Packing group	II
Labels	8
Packing instruction (cargo aircraft)	855
Packing instruction (passenger aircraft)	851
Packing instruction (passenger aircraft)	Y840

**IMDG**

UN number	3267
Description of the goods	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Phenol, 4-nonyl, branched, Polyoxypropylenediamine)
Class	8
Packing group	II
Labels	8
EmS Number 1	F-A
EmS Number 2	S-B
Marine pollutant	yes

IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

DOT: For Limited Quantity exceptions reference 49 CFR 173.154 (b)

**Special precautions for user**

no data available

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****TSCA list**

: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.



**EPCRA - Emergency Planning and Community Right-to-Know**

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA304 Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard  
Chronic Health Hazard

**SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act**

**Ozone-Depletion Potential** This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

**California Prop 65** WARNING! This product contains a chemical known in the State of California to cause cancer.

**16. Other information**

**HMIS Classification**

<b>Health</b>	*	3
<b>Flammability</b>		1
<b>Physical Hazard</b>		0
<b>Personal Protection</b>		X

**Caution:** HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.



**Notes to Reader**

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