



## 1. Identification

Product name : Sika Firesil®-N

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

Flammable liquids, Category 4 H227: Combustible liquid.

### GHS Label element

Signal Word : Warning

Hazard Statements : H227 Combustible liquid.

Precautionary Statements : **Prevention:**  
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
**Response:**  
P370 + P378 In case of fire: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment for extinction.  
**Storage:**  
P403 + P235 Store in a well-ventilated place. Keep cool.

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

## 3. Composition/information on ingredients

### Hazardous ingredients



Chemical Name	CAS-No.	Concentration (%)
trimethoxy(methyl)silane	1185-55-3	>= 2 - < 5 %
bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)tit anium	83877-91-2	>= 2 - < 5 %
methanol	67-56-1	>= 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.

#### 4. First aid measures

- If inhaled : Move to fresh air.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : No known significant effects or hazards.  
  
See Section 11 for more detailed information on health effects and symptoms.
- Protection of first-aiders : No hazards which require special first aid measures.
- Notes to physician : Treat symptomatically.

#### 5. Fire-fighting measures

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : Water
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This 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

- Environmental precautions : Local authorities should be advised if significant spillages



cannot be contained.

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

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## 7. Handling and storage

Advice on safe handling : Do not breathe vapors or spray mist.  
For personal protection see section 8.  
No special handling advice required.  
Follow standard hygiene measures when handling chemical products.

Conditions for safe storage : Store in original container.  
Keep in a well-ventilated place.  
Observe label precautions.  
Store in accordance with local regulations.

Materials to avoid : no data available

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## 8. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

**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.  
The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive 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



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	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 respiratory and skin/eye protection only after vapors have been cleared from the area. Remove contaminated clothing and protective equipment before entering eating areas.

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### 9. Physical and chemical properties

Appearance	: paste
Color	: various
Odor	: fruity
Odor Threshold	: no data available
Flash point	: ca. 185 °F (85 °C)
Ignition temperature	: 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
Melting point/range / Freezing point	: no data available
Boiling point/boiling range	: no data available
Vapor pressure	: no data available
Density	: ca. 1.5 g/cm <sup>3</sup> at 68 °F (20 °C)
Water solubility	: no data available
Partition coefficient: n- octanol/water	: no data available
Viscosity, dynamic	: ca. 500,000 mPa.s at 68 °F (20 °C)
Viscosity, kinematic	: > 20.5 mm <sup>2</sup> /s



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	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	: < 30 g/l

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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	: Extremes of temperature and direct sunlight.
Incompatible materials	: no data available
Hazardous decomposition products	: Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation. Methanol is released upon contact with water.

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**11. Toxicological information****Acute toxicity****Product**

Acute oral toxicity	: no data available
Acute inhalation toxicity	: no data available
Acute dermal toxicity	: no data available

**Ingredients:****methanol :**

Acute oral toxicity	: Acute toxicity estimate : 100 mg/kg Method: Converted acute toxicity point estimate
Acute inhalation toxicity	: Acute toxicity estimate : 3 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Converted acute toxicity point estimate
Acute dermal toxicity	: Acute toxicity estimate : 300 mg/kg Method: Converted acute toxicity point estimate

**Skin corrosion/irritation****Product**



no data available

**Serious eye damage/eye irritation****Product**

no data available

**Respiratory or skin sensitization****Product**

no data available

**Germ cell mutagenicity****Product**

Mutagenicity : no data available

**Carcinogenicity****Product**

Carcinogenicity : no data available

IARC not applicable

NTP not applicable

**Reproductive Toxicity/Fertility****Product**

Reproductive toxicity : no data available

**Reproductive Toxicity/Development/Teratogenicity****Product**

Teratogenicity : no data available

**STOT-single exposure****Product**

Assessment: no data available

**STOT-repeated exposure****Product**

Assessment: no data available

**Aspiration toxicity****Product**

no data available

**Additional information on acute health effects**

This material releases methanol upon moisture curing. Upon completion of the curing process, methanol will no longer be released. Ingestion is not expected during industrial use. According to literature methanol (CAS-No. 67-56-1) irritates mucous membranes, has skin drying and narcotic effects up to coma or death. Absorption by the skin is possible. Possibility of damage to heart, kidneys, liver and optic nerves (blindness) over a period of time.



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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.
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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.
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

Not dangerous goods

### IATA

Not dangerous goods

### IMDG

Not dangerous goods

### Special precautions for user

no data available

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

not applicable

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## 15. Regulatory information

<b>TSCA list</b>	: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
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### 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** : Fire 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 birth defects or other reproductive harm.

**16. Other information**

**HMIS Classification**

<b>Health</b>	<input type="text" value="1"/>
<b>Flammability</b>	<input type="text" value="2"/>
<b>Physical Hazard</b>	<input type="text" value="0"/>
<b>Personal Protection</b>	<input type="text" value="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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