1. Product and company identification

Product name: Sarnacol 2121
Supplier: Sika Corporation
Polito Avenue 201
Lyndhurst, NJ 07071
Telephone: (201) 933-8800
Telefax: (201) 804-1076
Emergency telephone: CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887
e-mail address of person responsible for this SDS: ehs@sika-corp.com
Manufacturer: Sika Corporation, Operations
201 Polito Avenue
Lyndhurst, NJ 07071
www.sikausa.com
Telephone: (201) 933 - 8800
Chemical family: Adhesives

2. Hazards identification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Potential Health Effects
- Inhalation: Harmful if inhaled in high concentrations
- Skin: May cause allergic skin reaction.
- Eyes: May cause eye irritation.
- Ingestion: May cause gastrointestinal disturbance
- Warning: Causes central nervous system depression

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

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
</tr>
<tr>
<td>methanol</td>
<td>67-56-1</td>
</tr>
</tbody>
</table>

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

First aid procedures

**Inhalation**  
If inhaled, remove to fresh air.  
If breathing is difficult, trained personnel should give oxygen.  
If not breathing, give artificial respiration.  
Get medical attention.

**Skin contact**  
In case of contact, immediately flush skin with soap and plenty of water.  
Remove contaminated clothing and shoes.  
Wash clothing before reuse.  
Get medical attention immediately if symptoms occur.

**Eye contact**  
If easy to do, remove contact lens, if worn.  
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
Get medical attention.

**Ingestion**  
If swallowed, contact a poison control center or physician immediately.  
Do NOT induce vomiting unless directed to do so by medical personnel.  
Never give anything by mouth to an unconscious person.

**Notes to physician**

**Treatment**  
No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

Fire fighting

**Suitable extinguishing media**  
Foam  
Carbon dioxide (CO2)  
Dry chemical

**Unsuitable extinguishing media**  
Water

**Further information**  
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.  
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk without suitable training.

**Protective equipment and precautions for firefighters**

**Specific hazards during fire fighting**  
Combustible liquid  
Do not use a solid water stream as it may scatter and spread fire.  
Risk of a subsequent explosion.  
In a fire or if heated, a pressure increase will occur and the container may burst.  
Cool closed containers exposed to fire with water spray.
6. Accidental release measures

Personal precautions
Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
No action shall be taken involving any personal risk without suitable training.
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Beware of vapors accumulating to form explosive concentrations.
Vapors can accumulate in low areas.
Material can create slippery conditions.

Environmental precautions
Local authorities should be advised if significant spillages cannot be contained.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for containment and cleaning up
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Large spills should be collected mechanically (remove by pumping) for disposal.
For large spills, use water spray to disperse vapors, flush spill area.

7. Handling and storage

Handling
For personal protection see section 8.
Avoid inhalation, ingestion and contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
Use explosion-proof equipment.
No sparking tools should be used.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).
Ensure all equipment is electrically grounded before beginning transfer operations.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage
Vapors are heavier than air and may spread along floors.
To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.
Keep product and empty container away from heat and sources of ignition.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Keep in properly labeled containers.
To maintain product quality, do not store in heat or direct sunlight.
Store in accordance with local regulations.
# 8. Exposure controls/personal protection

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Content %</th>
<th>Basis *</th>
<th>Value</th>
<th>Exposure limit(s) / Form of exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>5 - 10</td>
<td>ACGIH</td>
<td>TWA</td>
<td>20 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 - 10</td>
<td>OSHA Z2</td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 - 10</td>
<td>OSHA Z2</td>
<td>CEIL</td>
<td>300 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 - 10</td>
<td>OSHA Z2</td>
<td>Peak</td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 - 10</td>
<td>OSHA P0</td>
<td>TWA</td>
<td>100 ppm 375 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 - 10</td>
<td>OSHA P0</td>
<td>STEL</td>
<td>150 ppm 560 mg/m3</td>
</tr>
<tr>
<td>methanol</td>
<td>67-56-1</td>
<td>1 - 5</td>
<td>ACGIH</td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 - 5</td>
<td>ACGIH</td>
<td>STEL</td>
<td>250 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 - 5</td>
<td>OSHA P1</td>
<td>TWA</td>
<td>200 ppm 260 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 - 5</td>
<td>OSHA P0</td>
<td>TWA</td>
<td>200 ppm 260 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 - 5</td>
<td>OSHA P0</td>
<td>STEL</td>
<td>250 ppm 325 mg/m3</td>
</tr>
</tbody>
</table>

* **Basis**
- ACGIH. Threshold Limit Values (TLV)
- OSHA P0. Table Z-1, Limit for Air Contaminant (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 explosion-proof equipment.

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**

**Eye protection**

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
Hand protection  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.

Skin and body protection  Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection  Use a properly fitted, 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.

Hygiene measures  Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. 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. Wash thoroughly after handling.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
</tr>
<tr>
<td>Color</td>
</tr>
<tr>
<td>Odor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Safety data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
</tr>
<tr>
<td>Boiling point</td>
</tr>
<tr>
<td>Density</td>
</tr>
<tr>
<td>Volatile organic compounds (VOC) content</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

<table>
<thead>
<tr>
<th>Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable under normal conditions.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conditions to avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extremes of temperature and direct sunlight.</td>
</tr>
<tr>
<td>Do not allow vapor to accumulate in low or confined areas.</td>
</tr>
<tr>
<td>Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.</td>
</tr>
<tr>
<td>Avoid all possible sources of ignition (spark or flame).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Materials to avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>oxidizing materials</td>
</tr>
</tbody>
</table>
11. Toxicological information

Chronic Exposure

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

Carcinogenicity
not applicable

IARC
not applicable

OSHA
not applicable

NTP
not applicable

ACGIH
not applicable

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.

13. Disposal considerations

Waste disposal methods
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.

Packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

<table>
<thead>
<tr>
<th>Description of the goods</th>
<th>1993</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids, n.o.s. (toluene)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Class</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing group</td>
<td>III</td>
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<tr>
<td>Labels</td>
<td>3</td>
</tr>
<tr>
<td>Emergency Response Guidebook Number</td>
<td>128</td>
</tr>
</tbody>
</table>

IATA

<table>
<thead>
<tr>
<th>UN number</th>
<th>1993</th>
</tr>
</thead>
</table>
Description of the goods: Flammable liquid, n.o.s. (Toluene)

Class: 3
Packing group: III
Labels: 3

Packing instruction (cargo aircraft): 366
Packing instruction (passenger aircraft): 309
Packing instruction (passenger aircraft): Y309

IMDG
UN number: 1993
Description of the goods: FLAMMABLE LIQUID, N.O.S. (Toluene)
Class: 3
Packing group: III
Labels: 3
EmS Number 1: F-E
EmS Number 2: S-E

Marine pollutant: no

DOT: As per 49CFR 173.150 (f) Combustible Liquid Exception, Material is Not Regulated.
IATA: For Limited Quantity provisions reference IATA DGR Section 2.7 and other applicable sections.
IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

15. Regulatory information

Federal Regulations
TSCA Status: On TSCA Inventory
SARA 311/312 Hazards: Fire Hazard, Acute Health Hazard

EPCRA - Emergency Planning Community Right - To - Know
SARA 302 Ingredients: not applicable
SARA 313 Ingredients: Toluene 108-88-3 8.9 %, methanol 67-56-1 2.2 %

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).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):
Toluene 108-88-3 8.9 %
methanol 67-56-1 2.2 %

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).

State Regulations
California Prop. 65

Ingredients

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

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

Health: 2
Flammability: 2
Physical Hazard: 0
Personal Protection: C

NFPA Classification

Caution: HMIS® ratings and NFPA ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® and NFPA ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® and NFPA ratings are to be used with a fully implemented HMIS® and NFPA program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). NFPA or the National Fire Protection Association is a private non-profit organization and an authoritative source of technical background, data, and consumer advice on fire protection, problems and prevention. Please note HMIS® attempts to convey full health warning information to all employees while NFPA is meant primarily for fire fighters and other emergency responders.

Notes to Reader

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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