

**1. Product and company identification**

| | |
|---|---|
| Product name | Sikadur® 21 Lo-Mod LV/Sikadur® 22 Lo-Mod Part A |
| Supplier | Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 |
| Telephone | (201) 933-8800 |
| Telefax | (201) 804-1076 |
| Emergency telephone | CHEMTREC: 800-424-9300 |
| e-mail address of person responsible for this SDS | INTERNATIONAL: 703-527-3887 ehs@sika-corp.com |
| Manufacturer | Sika Corporation, Operations 201 Polito Avenue Lyndhurst, NJ 07071 www.sikausa.com |
| Telephone | (201) 933 - 8800 |
| Chemical family | Epoxy resin |

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. Causes skin irritation. |
| Eyes | Causes eye irritation. |
| Ingestion | Harmful if swallowed. |
| Warning | Causes central nervous system depression Possible cancer hazard. Contains material which may cause cancer based on animal data. |

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

3. Composition/information on ingredients

| <u>Component</u> | <u>CAS Number</u> |
|--|--------------------------|
| bisphenol-A-(epichlorhydrin) epoxy resin | 25068-38-6 |
| solvent naphtha (petroleum), heavy arom. | 64742-94-5 |
| Naphthalene, pure | 91-20-3 |

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**

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| 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 irritation develops and persists. |
| 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. Get medical attention immediately. |

Notes to physician

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| Treatment | No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
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5. Fire-fighting measures**Fire fighting**

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| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media | none |
| 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

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| Special protective equipment for firefighters | Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
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**6. Accidental release measures**

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| Personal precautions | Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. No action shall be taken involving any personal risk without suitable training. Keep people away from and upwind of spill/leak. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. 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. |

7. Handling and storage

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| 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. |
| Storage | 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**Exposure limit(s)**

| <u>Component</u> | <u>CAS Number</u> | <u>Content %</u> | <u>Basis *</u> | <u>Value</u> | <u>Exposure limit(s) / Form of exposure</u> |
|-------------------|-------------------|------------------|----------------|--------------|---|
| Naphthalene, pure | 91-20-3 | 0.1 - 1 | ACGIH | TWA | 10 ppm |
| | | | ACGIH | STEL | 15 ppm |
| | | 0.1 - 1 | OSHA P1 | TWA | 10 ppm 50 mg/m3 |
| | | | OSHA P0 | TWA | 10 ppm 50 mg/m3 |
| | | 0.1 - 1 | OSHA P0 | STEL | 15 ppm 75 mg/m3 |

*** 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 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

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 contaminated clothing and protective equipment before entering eating areas.
Wash thoroughly after handling.

9. Physical and chemical properties**Appearance**

| | |
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| Form | liquid |
| Color | yellow |
| Odor | aromatic |

Safety data

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| Flash point | 199.99 °F (93.33 °C) |
| Density | 1.1 g/cm ³ at 68 °F (20 °C) |



| | |
|---|---|
| Viscosity, kinematic | > 7 mm ² /s at 104 °F (40 °C) |
| Volatile organic compounds (VOC) content | < 50 g/l (A+B Combined) |

10. Stability and reactivity

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|-------------------------------------|---|
| Stability | Stable under normal conditions. |
| Conditions to avoid | not applicable |
| Materials to avoid | not applicable |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

11. Toxicological information

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| 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. |
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Carcinogenicity

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|--------------|--|
| IARC | Group 2B: Possibly carcinogenic to humans Naphthalene, pure 91-20-3 |
| OSHA | not applicable |
| NTP | Reasonably anticipated to be a human carcinogen Naphthalene, pure 91-20-3 |
| ACGIH | not applicable |

12. Ecological information

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|-------------------|---|
| 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. Water polluting material. 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. |
|-------------------|---|

13. Disposal considerations

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| 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. |
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Packaging

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

14. Transport information

DOT

Not regulated

IATA

| | |
|--|--|
| UN number | 3082 |
| Description of the goods | Environmentally hazardous substance, liquid, n.o.s. (bisphenol-A-(epichlorhydrin) epoxy resin) |
| Class | 9 |
| Packing group | III |
| Labels | 9 |
| Packing instruction (cargo aircraft) | 964 |
| Packing instruction (passenger aircraft) | 964 |
| Packing instruction (passenger aircraft) | Y964 |

IMDG

| | |
|--------------------------|--|
| UN number | 3082 |
| Description of the goods | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin) epoxy resin) |
| Class | 9 |
| Packing group | III |
| Labels | 9 |
| EmS Number 1 | F-A |
| EmS Number 2 | S-F |
| Marine pollutant | yes |

DOT & Domestic Aircraft: As per 49 CFR 171.4, Non-bulk materials (<119 Gal) are excepted from being classed as a Marine Pollutant.

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

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| TSCA Status | On TSCA Inventory |
| SARA 311/312 Hazards | Acute Health Hazard Chronic Health Hazard |

EPCRA - Emergency Planning Community Right - To - Know

| | |
|-----------------------------|----------------|
| SARA 302 Ingredients | not applicable |
| SARA 313 Ingredients | not applicable |

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).

State Regulations

**California Prop. 65
Ingredients**

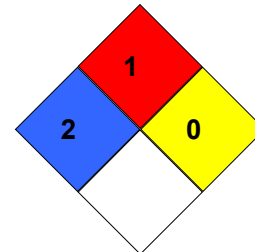
WARNING! This product contains a chemical known in the State of California to cause cancer.

16. Other information

HMIS Classification

| | | |
|---------------------|---|---|
| Health | * | 2 |
| Flammability | | 1 |
| 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

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