



1. Identification

Product name : Sikafloor® 200C ESD Part A

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

Skin irritation , Category 2 H315: Causes skin irritation.
Eye irritation , Category 2A H319: Causes serious eye irritation.
Skin sensitization , Category 1 H317: May cause an allergic skin reaction.
Carcinogenicity , Category 1A H350: May cause cancer.

GHS Label element

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H350 May cause cancer.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear eye protection/ face protection.



P280 Wear protective gloves.

P281 Use personal protective equipment as required.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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.

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

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash 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 (%) |
|---|-------------|-------------------|
| bisphenol-A-(epichlorhydrin) epoxy resin | 25068-38-6 | >= 25 - < 50 % |
| bisphenol-F-(epichlorhydrin) epoxy resin | 28064-14-4 | >= 10 - < 20 % |
| Quartz (SiO ₂) | 14808-60-7 | >= 5 - < 10 % |
| 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane | 17557-23-2 | >= 5 - < 10 % |
| Benzyl alcohol | 100-51-6 | >= 2 - < 5 % |
| oxirane, mono[(C12-14-alkyloxy)methyl]derivatives | 68609-97-2 | >= 1 - < 2 % |
| Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine | 162627-17-0 | >= 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.
Consult a physician after significant exposure.



- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Induce vomiting immediately and call a physician.
Do NOT induce vomiting.
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 : Allergic reactions
Excessive lachrymation
Erythema
Dermatitis
See Section 11 for more detailed information on health effects and symptoms.
- irritant effects
sensitizing effects
carcinogenic effects
- Protection of first-aiders : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.
- Notes to physician : Treat symptomatically.

5. Fire-fighting measures

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- 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

- 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 : Do not breathe vapors or spray mist.
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 |
|--------------------|------------|----------|-------|---------------------------------------|
| Tin Antimony oxide | 68187-54-2 | OSHA Z-1 | TWA | 0.5 mg/m3 |
| | | ACGIH | TWA | 0.5 mg/m3 |
| | | OSHA P0 | TWA | 0.5 mg/m3 |
| Quartz (SiO2) | 14808-60-7 | ACGIH | TWA | 0.025 mg/m3 Respirable fraction |
| | | OSHA Z-3 | TWA | 30 mg/m3 / %SiO2+2 total dust |
| | | OSHA Z-3 | TWA | 10 mg/m3 / %SiO2+2 |



| | | | | |
|--|------------|----------|-----|---|
| | | | | respirable |
| | | OSHA Z-3 | TWA | 250 mppcf / %SiO ₂ +5 respirable |
| | | OSHA P0 | TWA | 0.1 mg/m ³ Respirable fraction |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 | OSHA Z-1 | TWA | 500 ppm 2,000 mg/m ³ |
| | | ACGIH | TWA | 200 mg/m ³ |
| | | OSHA P0 | TWA | 400 ppm 1,600 mg/m ³ |

*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.

9. Physical and chemical properties

- Appearance : liquid
- Color : brown
- Odor : aromatic
- Odor Threshold : no data available
- Flash point : 209.8 °F (98.8 °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 : Note: not applicable
- Melting point/range / Freezing point : no data available
- Boiling point/boiling range : no data available
- Vapor pressure : no data available
- Density : ca.1.31 g/cm³
at 73 °F (23 °C)
- Water solubility : Note: insoluble
- Partition coefficient: n-octanol/water : no data available
- Viscosity, dynamic : no data available
- Viscosity, kinematic : > 20.5 mm²/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 | : < 50 g/l A+B+D Combined |

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 |

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:

bisphenol-A-(epichlorhydrin) epoxy resin :

| | |
|-----------------------|--------------------------------------|
| Acute oral toxicity | : LD50 Oral rat: > 5,000 mg/kg |
| Acute dermal toxicity | : LD50 Dermal rabbit: > 20,000 mg/kg |

bisphenol-F-(epichlorhydrin) epoxy resin :

| | |
|---------------------|--------------------------------|
| Acute oral toxicity | : LD50 Oral rat: > 5,000 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

Skin corrosion/irritation**Product**

Causes skin irritation.

Serious eye damage/eye irritation**Product**

Causes serious eye irritation.

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

NTPQuartz (SiO₂) 14808-60-7

Known to be human carcinogen

Quartz (SiO₂) 14808-60-7**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

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.

Product



Assessment: no data available

Aspiration toxicity

Product

no data available

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.

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.

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

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

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 : The following components are subject to reporting levels established by SARA Title III, Section 313:
Tin Antimony oxide 68187-54-2 11.00 %

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):

Tin Antimony oxide 68187-54-2 11.00 %

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

| | | |
|----------------------------|---|---|
| Health | * | 3 |
| Flammability | | 1 |
| Physical Hazard | | 0 |
| Personal Protection | | 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

The information contained in this 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 Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 04/04/2014

Material number: 187991



Safety Data Sheet

Sikafloor® 200C ESD Part A

Revision Date 04/04/2014

Print Date 04/04/2014



1. Identification

Product name : Sikafloor® 200 ESD Part A

Supplier : Sika Corporation

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Recommended use of the chemical and restrictions on use : For further information, refer to the product technical data sheet.

2. Hazards identification

GHS Classification

Skin irritation , Category 2 H315: Causes skin irritation.
Eye irritation , Category 2A H319: Causes serious eye irritation.
Skin sensitization , Category 1 H317: May cause an allergic skin reaction.
Carcinogenicity , Category 1A H350: May cause cancer.

GHS Label element

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H350 May cause cancer.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear eye protection/ face protection.



P280 Wear protective gloves.

P281 Use personal protective equipment as required.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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.

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

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash 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 (%) |
|---|-------------|-------------------|
| bisphenol-A-(epichlorhydrin) epoxy resin | 25068-38-6 | >= 25 - < 50 % |
| bisphenol-F-(epichlorhydrin) epoxy resin | 28064-14-4 | >= 10 - < 20 % |
| Quartz (SiO ₂) | 14808-60-7 | >= 5 - < 10 % |
| 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane | 17557-23-2 | >= 5 - < 10 % |
| Benzyl alcohol | 100-51-6 | >= 2 - < 5 % |
| oxirane, mono[(C12-14-alkyloxy)methyl]derivatives | 68609-97-2 | >= 1 - < 2 % |
| Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine | 162627-17-0 | >= 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.
Consult a physician after significant exposure.



-
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Induce vomiting immediately and call a physician.
Do NOT induce vomiting.
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 : Allergic reactions
Excessive lachrymation
Erythema
Dermatitis
See Section 11 for more detailed information on health effects and symptoms.
- irritant effects
sensitizing effects
carcinogenic effects
- Protection of first-aiders : Move out of dangerous area.
Consult a physician.
Show this material safety data sheet to the doctor in attendance.
- Notes to physician : Treat symptomatically.
-

5. Fire-fighting measures

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- 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

- 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 : Do not breathe vapors or spray mist.
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 |
|--------------------|------------|----------|-------|---------------------------------------|
| Tin Antimony oxide | 68187-54-2 | OSHA Z-1 | TWA | 0.5 mg/m3 |
| | | ACGIH | TWA | 0.5 mg/m3 |
| | | OSHA P0 | TWA | 0.5 mg/m3 |
| Quartz (SiO2) | 14808-60-7 | ACGIH | TWA | 0.025 mg/m3 Respirable fraction |
| | | OSHA Z-3 | TWA | 30 mg/m3 / %SiO2+2 total dust |
| | | OSHA Z-3 | TWA | 10 mg/m3 / %SiO2+2 |



| | | | | |
|---|------------|----------|-----|---|
| | | | | respirable |
| | | OSHA Z-3 | TWA | 250 mppcf / %SiO ₂ +5 respirable |
| | | OSHA P0 | TWA | 0.1 mg/m ³ Respirable fraction |
| Solvent naphtha (petroleum), light arom. | 64742-95-6 | OSHA Z-1 | TWA | 500 ppm 2,000 mg/m ³ |
| | | ACGIH | TWA | 200 mg/m ³ |
| | | OSHA P0 | TWA | 400 ppm 1,600 mg/m ³ |

*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.

9. Physical and chemical properties

- Appearance : liquid
- Color : brown
- Odor : aromatic
- Odor Threshold : no data available
- Flash point : 209.8 °F (98.8 °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 : Note: not applicable
- Melting point/range / Freezing point : no data available
- Boiling point/boiling range : no data available
- Vapor pressure : no data available
- Density : ca.1.31 g/cm³
at 73 °F (23 °C)
- Water solubility : Note: insoluble
- Partition coefficient: n-octanol/water : no data available
- Viscosity, dynamic : no data available
- Viscosity, kinematic : > 20.5 mm²/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 | : < 50 g/l A+B+D Combined |

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 |

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:

bisphenol-A-(epichlorhydrin) epoxy resin :

| | |
|-----------------------|--------------------------------------|
| Acute oral toxicity | : LD50 Oral rat: > 5,000 mg/kg |
| Acute dermal toxicity | : LD50 Dermal rabbit: > 20,000 mg/kg |

bisphenol-F-(epichlorhydrin) epoxy resin :

| | |
|---------------------|--------------------------------|
| Acute oral toxicity | : LD50 Oral rat: > 5,000 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

Skin corrosion/irritation**Product**

Causes skin irritation.

Serious eye damage/eye irritation**Product**

Causes serious eye irritation.

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

NTPQuartz (SiO₂) 14808-60-7

Known to be human carcinogen

Quartz (SiO₂) 14808-60-7**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

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.

Product



Assessment: no data available

Aspiration toxicity

Product

no data available

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. |
|-------------------|--|

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. |

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

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

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 : The following components are subject to reporting levels established by SARA Title III, Section 313:
Tin Antimony oxide 68187-54-2 11.00 %

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):

Tin Antimony oxide 68187-54-2 11.00 %

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

| | | |
|----------------------------|---|---|
| Health | * | 3 |
| Flammability | | 1 |
| Physical Hazard | | 0 |
| Personal Protection | | 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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Revision Date 04/04/2014

Material number: 187991



Safety Data Sheet

Sikafloor® 200 ESD Part A

Revision Date 04/04/2014

Print Date 04/04/2014

MATERIAL SAFETY DATA SHEET



Date Issued: 04/30/2009

MSDS No: Sikafloor 200 ESD Flow Additive

1. PRODUCT AND COMPANY IDENTIFICATION

GENERAL USE: Flow Additive

PRODUCT DESCRIPTION: Sikafloor 200 ESD/ Sikafloor 200C ESD Flow Additive

PRODUCT CODE: Sikafloor 200 ESD/Sikafloor 200C ESD Flow Additive

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: Causes eye irritations- is a severe eye irritant. Exposure to vapors may cause headache, dizziness, and nausea over-exposure may cause central nervous system. Depression may cause skin irritation. Harmful if swallowed.

POTENTIAL HEALTH EFFECTS

EYES: May cause significant irritation to the eyes.

SKIN: May cause skin irritation. Symptoms include: itching and redness after contact.

INGESTION: Ingestion is not expected to be an important route into the body.

INHALATION: Exposure to vapors may cause headache, dizziness, and nausea over-exposure may cause central nervous system depression.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

CHRONIC EFFECTS: No long-term chronic effects or carcinogenicity data are known or available on this product.

TARGET ORGAN STATEMENT:

Eyes
Respiratory System
Skin

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | Wt.% | CAS | EINECS |
|----------------------------|---------|------------|-----------|
| Benzyl alcohol | 40 - 45 | 100-51-6 | 202-859-9 |
| Polyamine amide salt | 40 - 45 | N/A | N/A |
| Aromatic Petroleum Naphtha | 5 - 10 | 64742-95-6 | 265-199-0 |

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: Do not induce vomiting; contains petroleum distillates and/or aromatic solvents.

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.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: (213°F)

EXTINGUISHING MEDIA: Dry Chemical, Foam, Carbon Dioxide (CO₂), Water Spray

FIRE FIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure demand (MSHA/NIOSH approved or equivalent) and full protective gear. Toxic vapors may evolve. Fight fires from a safe distance or protected areas. Use of large volumes of water may produce run-off that could be toxic to wildlife and/or pose a hazardous waste disposal issue. Water may not be effective for large fires.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition and combustion products may be toxic. Under stagnant air conditions, vapors may build up and travel along the ground to an ignition source which may result in a flash back to the source of the vapors.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb with inert material. Clean up and dispose of at an appropriate waste disposal facility.

7. HANDLING AND STORAGE

HANDLING: Avoid breathing of vapors. Handle in well-ventilated workspace. When handling, do not eat, drink, or smoke. Avoid contact with skin.

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. |
| Polyamine amide salt | TWA | N.E. | N.E. | N.E. | N.E. | N.E. | N.E. |
| | STEL | N.E. | N.E. | N.E. | N.E. | N.E. | N.E. |
| Aromatic Petroleum Naphtha | TWA | 100 ppm | | 100 ppm | | | |
| | STEL | 150 ppm | | | | | |
| 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: Gloves

RESPIRATORY: Use NIOSH approved equipment. Appropriate respiratory protection for respirable particulates is based on consideration of airborne workplace concentrations and duration of exposure arising from the intended end use. Please refer to the most recent standards of ANSI(Z88.22), OSHA (29CFR 1910.134, MSHA (30 CFR Parts 56 &57), and NIOSH RDL. If you are unsure as to the type of respirator to be used please consult your employer.

PROTECTIVE CLOTHING: Normal work clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Negligible

APPEARANCE: Amber Liquid

VAPOR DENSITY: Heavier than air

FLASHPOINT AND METHOD: (213°F)

SOLUBILITY IN WATER: Partially Soluble

EVAPORATION RATE: Is slower than Butyl Acetate

DENSITY: 8.6

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY: The product is stable under normal ambient conditions of temperature and pressure.

CONDITIONS TO AVOID: Heat, flames, ignition source and incompatibles

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide and incomplete oxidation products.

INCOMPATIBLE MATERIALS: Strong oxidizers, this product contains trimethylol propane and should not be combined with phosphorus-containing materials because highly toxic fumes can be emitted in a fire situation.

11. TOXICOLOGICAL INFORMATION

ACUTE

| Chemical Name | ORAL LD ₅₀ (rat) | INHALATION LC ₅₀ (rat) |
|----------------------------|--------------------------------|--------------------------------------|
| Aromatic Petroleum Naphtha | 4.7 g/kg | > 3370 ppm/8hrs(rat) |

EYE EFFECTS: This material may cause irritation to the eyes.

SKIN EFFECTS: This material may cause irritation to the skin.

CHRONIC: Primary health risk from prolonged overexposure to organic solvent. Solvent content amount and TLV should be noted for this product to help determine overall degree of risk. May cause dermatitis. May cause liver or kidney damage. Repeated or prolonged solvent overexposure may result in permanent central nervous system damage. May cause long term respiratory damage.

CARCINOGENICITY

| Chemical Name | NTP Status | IARC Status | OSHA Status |
|----------------------|---------------|----------------|----------------|
| Benzyl alcohol | Not Listed | Not Listed | Not Listed |
| Polyamine amide salt | Not Listed | Not Listed | Not Listed |

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of according to all federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Not Regulated

AIR (ICAO/IATA)

SHIPPING NAME: Not Regulated

VESSEL (IMO/IMDG)

SHIPPING NAME: Not Regulated

CANADA TRANSPORT OF DANGEROUS GOODS

SHIPPING NAME: Not Regulated

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

ACUTE: Yes **CHRONIC:** Yes

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All intentional ingredients are listed on the TSCA Inventory.

CALIFORNIA PROPOSITION 65: (component (s) know to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986"): None

CANADA

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

INTERNATIONAL REGULATIONS:

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 Risk and Safety Phrases:

Symbol of Danger: Xi(Irritant), Xn(Harmful)

R 20 Harmful by inhalation

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 42/43 May cause sensitization by inhalation and skin contact.

S 2 Keep out of reach of children.

S 24/25 Avoid contact with skin and eyes.

16. OTHER INFORMATION

TITLE: MSDS Coordinator

REVISION SUMMARY: New MSDS

HMIS RATING

| | |
|-----------------------------|----------|
| HEALTH: | 2 |
| FLAMMABILITY: | 1 |
| PHYSICAL HAZARD: | 0 |
| PERSONAL PROTECTION: | G |

MANUFACTURER DISCLAIMER: 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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All sales of Sika products are subject to its current terms and conditions of sale available at www.sikscorp.com or 201-933-8800.



1. Identification

Product name : Sikafloor® ESD Color Pack (black)

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 3
Skin irritation, Category 2
Carcinogenicity, Category 2
Reproductive toxicity, Category 2

Specific target organ systemic toxicity -
repeated exposure, Category 2
(Inhalation)

H226: Flammable liquid and vapor.
H315: Causes skin irritation.
H351: Suspected of causing cancer.
H361: Suspected of damaging fertility or the
unborn child.
H373: May cause damage to organs through
prolonged or repeated exposure if inhaled.

GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or
repeated exposure if inhaled.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read



and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

P281 Use personal protective equipment as required.

Response:

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

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

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

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 (%) |
|---------------------------------|-----------|-------------------|
| 2-methoxy-1-methylethyl acetate | 108-65-6 | >= 50 - <= 100 % |
| Carbon black | 1333-86-4 | >= 25 - < 50 % |
| Toluene | 108-88-3 | >= 10 - < 20 % |

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. Consult a physician after significant exposure. |
| In case of skin contact | : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician. |
| In case of eye contact | : Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention. |
| Most important symptoms and effects, both acute and delayed | : irritant effects Erythema Dermatitis See Section 11 for more detailed information on health effects and symptoms. |
| Protection of first-aiders | : Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance. |
| Notes to physician | : Treat symptomatically. |

5. Fire-fighting measures

| | |
|--|---|
| Suitable extinguishing media | : Alcohol-resistant foam Carbon dioxide (CO ₂) Dry chemical |
| Unsuitable extinguishing media | : Water |
| Specific extinguishing methods | : Use water spray to cool unopened containers. 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

| | |
|-----------------------|--------------------------------------|
| Personal precautions, | : Use personal protective equipment. |
|-----------------------|--------------------------------------|



- protective equipment and emergency procedures : Remove all sources of ignition.
Deny access to unprotected persons.
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

- Environmental precautions : Prevent product from entering drains.
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 : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. Handling and storage

- Advice on safe handling : Do not breathe vapors or spray mist.
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.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharge.
Open drum carefully as content may be under pressure.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).
Follow standard hygiene measures when handling chemical products.

- Conditions for safe storage : Store in original container.
Keep in a 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 |
|--------------|-----------|----------|-------|---------------------------------------|
| Carbon black | 1333-86-4 | ACGIH | TWA | 3.5 mg/m3 |
| | | OSHA Z-1 | TWA | 3.5 mg/m3 |
| | | OSHA P0 | TWA | 3.5 mg/m3 |
| Toluene | 108-88-3 | ACGIH | TWA | 20 ppm |
| | | OSHA Z-2 | TWA | 200 ppm |



| | | | | |
|--|--|----------|------|----------------------|
| | | | | |
| | | OSHA Z-2 | CEIL | 300 ppm |
| | | OSHA Z-2 | Peak | 500 ppm |
| | | OSHA P0 | TWA | 100 ppm 375 mg/m3 |
| | | OSHA P0 | STEL | 150 ppm 560 mg/m3 |

*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.
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



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.
Wash thoroughly after handling.

9. Physical and chemical properties

Appearance : liquid
Color : black
Odor : characteristic
Odor Threshold : no data available
Flash point : 80.1 °F (26.7 °C)
Ignition temperature : no data available
Decomposition temperature : no data available
Lower explosion limit : 1 %(V)
Upper explosion limit : 7 %(V)
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 : 21.750 mmHg (28.9975 hpa)
Density : 1.088 g/cm³
at 68 °F (20 °C)
Water solubility : no data available
Partition coefficient: n-octanol/water : no data available
Viscosity, dynamic : no data available
Viscosity, kinematic : ca.> 20.5 mm²/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 | : 611 g/l |

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. Vapors may form explosive mixture with air. |
| Conditions to avoid | : Heat, flames and sparks. |
| Incompatible materials | : no data available |

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:

2-methoxy-1-methylethyl acetate :

| | |
|-----------------------|-------------------------------------|
| Acute oral toxicity | : LD50 Oral rat: > 5,000 mg/kg |
| Acute dermal toxicity | : LD50 Dermal rabbit: > 5,000 mg/kg |

Carbon black :

| | |
|---------------------|--------------------------------|
| Acute oral toxicity | : LD50 Oral rat: > 8,000 mg/kg |
|---------------------|--------------------------------|

Skin corrosion/irritation

Product

Causes skin irritation.



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 : Suspected of causing cancer.

IARC

Group 2B: Possibly carcinogenic to humans

NTP

Carbon black 1333-86-4
not applicable

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.

Product

Assessment: May cause damage to organs through prolonged or repeated exposure if inhaled.

Aspiration toxicity

Product

no data available



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.

Component:

| | | |
|--------------|-----------|---|
| Carbon black | 1333-86-4 | <u>Toxicity to fish:</u> LC50 Species: Brachydanio rerio Dose: > 1,000 mg/l Exposure time: 96 h |
|--------------|-----------|---|

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.

14. Transport information

DOT

| | |
|--------------------------|------------------------|
| UN number | 1263 |
| Description of the goods | Paint related material |
| Class | 3 |
| Packing group | III |
| Labels | 3 |
| Emergency Response | 128 |
| Guidebook Number | |

IATA

| | |
|--|------------------------|
| UN number | 1263 |
| Description of the goods | Paint related material |
| Class | 3 |
| Packing group | III |
| Labels | 3 |
| Packing instruction (cargo aircraft) | 366 |
| Packing instruction (passenger aircraft) | 355 |
| Packing instruction | Y344 |



(passenger aircraft)

IMDG

| | |
|--------------------------|------------------------|
| UN number | 1263 |
| Description of the goods | PAINT RELATED MATERIAL |
| Class | 3 |
| Packing group | III |
| Labels | 3 |
| EmS Number 1 | F-E |
| EmS Number 2 | S-E |
| Marine pollutant | no |

DOT: For Limited Quantity exceptions reference 49 CFR 173.150 (b)

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

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 : Fire Hazard
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 : The following components are subject to reporting levels established by SARA Title III, Section 313:
Toluene 108-88-3 10.00 %

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 10.00 %

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).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

California Prop 65

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 | | 3 |
| Physical Hazard | | 0 |
| Personal Protection | | 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

The information contained in this 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 Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT



Safety Data Sheet

Sikafloor® ESD Color Pack (black)

Revision Date 12/13/2013

Print Date 12/13/2013

BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 12/13/2013

Material number: 444458



1. Identification

Product name : Sikafloor® ESD Color Pack (brick red)

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 3
Carcinogenicity, Category 2
Reproductive toxicity, Category 2

Specific target organ systemic toxicity -
repeated exposure, Category 2
(Inhalation)

H226: Flammable liquid and vapor.
H351: Suspected of causing cancer.
H361: Suspected of damaging fertility or the
unborn child.
H373: May cause damage to organs through
prolonged or repeated exposure if inhaled.

GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or
repeated exposure if inhaled.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read
and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. -



No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
 P280 Wear protective gloves/ eye protection/ face protection.
 P281 Use personal protective equipment as required.

Response:

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

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

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

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 (%) |
|---------------------------------|------------|-------------------|
| 2-methoxy-1-methylethyl acetate | 108-65-6 | >= 20 - < 25 % |
| titanium dioxide | 13463-67-7 | >= 10 - < 20 % |
| Toluene | 108-88-3 | >= 5 - < 10 % |
| Carbon black | 1333-86-4 | >= 1 - < 2 % |

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.
 Consult a physician after significant exposure.



| | |
|---|--|
| In case of skin contact | : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician. |
| In case of eye contact | : Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| 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 | : Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance. |
| Notes to physician | : Treat symptomatically. |

5. Fire-fighting measures

| | |
|--|---|
| Suitable extinguishing media | : Alcohol-resistant foam Carbon dioxide (CO ₂) Dry chemical |
| Unsuitable extinguishing media | : Water |
| Specific extinguishing methods | : Use water spray to cool unopened containers. 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

| | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment. Remove all sources of ignition. Deny access to unprotected persons. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. |
| Environmental precautions | : Prevent product from entering drains. 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 : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. Handling and storage

Advice on safe handling : Do not breathe vapors or spray mist.
 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.
 Smoking, eating and drinking should be prohibited in the application area.
 Take precautionary measures against static discharge.
 Open drum carefully as content may be under pressure.
 Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).
 Follow standard hygiene measures when handling chemical products.

Conditions for safe storage : Store in original container.
 Keep in a 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 |
|------------------|------------|----------|-------|---------------------------------------|
| titanium dioxide | 13463-67-7 | ACGIH | TWA | 10 mg/m3 |
| | | OSHA P0 | TWA | 10 mg/m3 Total |
| | | OSHA Z-1 | TWA | 15 mg/m3 total dust |
| Toluene | 108-88-3 | ACGIH | TWA | 20 ppm |
| | | OSHA Z-2 | TWA | 200 ppm |
| | | OSHA Z-2 | CEIL | 300 ppm |
| | | OSHA Z-2 | Peak | 500 ppm |



| | | | | |
|--------------|-----------|----------|------|----------------------|
| | | OSHA P0 | TWA | 100 ppm 375 mg/m3 |
| | | OSHA P0 | STEL | 150 ppm 560 mg/m3 |
| Carbon black | 1333-86-4 | ACGIH | TWA | 3.5 mg/m3 |
| | | OSHA Z-1 | TWA | 3.5 mg/m3 |
| | | OSHA P0 | TWA | 3.5 mg/m3 |

*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.
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 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.

9. Physical and chemical properties

Appearance : liquid
Color : brick red
Odor : characteristic
Odor Threshold : no data available
Flash point : 80.1 °F (26.7 °C)
Ignition temperature : no data available
Decomposition temperature : no data available
Lower explosion limit : 1 %(V)
Upper explosion limit : 7 %(V)
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 : 21.750 mmHg (28.9975 hpa)
Density : 2.03 g/cm³
at 68 °F (20 °C)
Water solubility : no data available
Partition coefficient: n-octanol/water : no data available
Viscosity, dynamic : no data available
Viscosity, kinematic : ca.> 20.5 mm²/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 | : | 237 g/l |

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. Vapors may form explosive mixture with air. |
| Conditions to avoid | : | Heat, flames and sparks. |
| Incompatible materials | : | no data available |

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:

2-methoxy-1-methylethyl acetate :

| | | |
|-----------------------|---|-----------------------------------|
| Acute oral toxicity | : | LD50 Oral rat: > 5,000 mg/kg |
| Acute dermal toxicity | : | LD50 Dermal rabbit: > 5,000 mg/kg |

Carbon black :

| | | |
|---------------------|---|------------------------------|
| Acute oral toxicity | : | LD50 Oral rat: > 8,000 mg/kg |
|---------------------|---|------------------------------|

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 : Suspected of causing cancer.

IARC

Group 2B: Possibly carcinogenic to humans

titanium dioxide 13463-67-7

Carbon black 1333-86-4

NTP

not applicable

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.

Product

Assessment: May cause damage to organs through prolonged or repeated exposure if inhaled.

Aspiration toxicity**Product**

no data available



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.

Component:

| | | |
|--------------|-----------|---|
| Carbon black | 1333-86-4 | <u>Toxicity to fish:</u> LC50 Species: Brachydanio rerio Dose: > 1,000 mg/l Exposure time: 96 h |
|--------------|-----------|---|

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.

14. Transport information

DOT

| | |
|--------------------------|------------------------|
| UN number | 1263 |
| Description of the goods | Paint related material |
| Class | 3 |
| Packing group | III |
| Labels | 3 |
| Emergency Response | 128 |
| Guidebook Number | |

IATA

| | |
|--|------------------------|
| UN number | 1263 |
| Description of the goods | Paint related material |
| Class | 3 |
| Packing group | III |
| Labels | 3 |
| Packing instruction (cargo aircraft) | 366 |
| Packing instruction (passenger aircraft) | 355 |
| Packing instruction (passenger aircraft) | Y344 |

**IMDG**

| | |
|--------------------------|------------------------|
| UN number | 1263 |
| Description of the goods | PAINT RELATED MATERIAL |
| Class | 3 |
| Packing group | III |
| Labels | 3 |
| EmS Number 1 | F-E |
| EmS Number 2 | S-E |

Marine pollutant no

DOT: For Limited Quantity exceptions reference 49 CFR 173.150 (b)
IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

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 : Fire 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 : The following components are subject to reporting levels established by SARA Title III, Section 313:
Toluene 108-88-3 7.00 %

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).



Safety Data Sheet

GJ_UZccf# '9G8 '7 c`cf'DUW_fMfJW_fYXŁ

Revision Date 12/10/2013

Print Date 12/10/2013

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

Toluene 108-88-3 7.00 %

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).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

California Prop 65

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 | | 3 |
| Physical Hazard | | 0 |
| Personal Protection | | 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

The information contained in this 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 Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.



Safety Data Sheet

Sikafloor® ESD Color Pack (brick red)

Revision Date 12/10/2013

Print Date 12/10/2013

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 12/10/2013

Material number: 189425



1. Identification

Product name : Sikafloor® ESD Color Pack (sky gray)

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 3
Carcinogenicity, Category 2
Reproductive toxicity, Category 2

Specific target organ systemic toxicity -
repeated exposure, Category 2
(Inhalation)

H226: Flammable liquid and vapor.
H351: Suspected of causing cancer.
H361: Suspected of damaging fertility or the
unborn child.
H373: May cause damage to organs through
prolonged or repeated exposure if inhaled.

GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or
repeated exposure if inhaled.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read
and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. -



No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
 P280 Wear protective gloves/ eye protection/ face protection.
 P281 Use personal protective equipment as required.

Response:

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

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

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

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 (%) |
|---------------------------------|------------|-------------------|
| titanium dioxide | 13463-67-7 | >= 50 - <= 100 % |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | >= 10 - < 20 % |
| Toluene | 108-88-3 | >= 5 - < 10 % |

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.
 Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.



| | |
|---|--|
| | Wash off with soap and plenty of water. If symptoms persist, call a physician. |
| In case of eye contact | : Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| 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 | : Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance. |
| Notes to physician | : Treat symptomatically. |

5. Fire-fighting measures

| | |
|--|---|
| Suitable extinguishing media | : Alcohol-resistant foam Carbon dioxide (CO ₂) Dry chemical |
| Unsuitable extinguishing media | : Water |
| Specific extinguishing methods | : Use water spray to cool unopened containers. 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

| | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment. Remove all sources of ignition. Deny access to unprotected persons. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. |
| Environmental precautions | : Prevent product from entering drains. 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 : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. Handling and storage

Advice on safe handling : Do not breathe vapors or spray mist.
 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.
 Smoking, eating and drinking should be prohibited in the application area.
 Take precautionary measures against static discharge.
 Open drum carefully as content may be under pressure.
 Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).
 Follow standard hygiene measures when handling chemical products.

Conditions for safe storage : Store in original container.
 Keep in a 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 |
|------------------|------------|----------|-------|---------------------------------------|
| titanium dioxide | 13463-67-7 | ACGIH | TWA | 10 mg/m3 |
| | | OSHA P0 | TWA | 10 mg/m3 Total |
| | | OSHA Z-1 | TWA | 15 mg/m3 total dust |
| Toluene | 108-88-3 | ACGIH | TWA | 20 ppm |
| | | OSHA Z-2 | TWA | 200 ppm |
| | | OSHA Z-2 | CEIL | 300 ppm |
| | | OSHA Z-2 | Peak | 500 ppm |



| | | | | |
|--|--|---------|------|----------------------|
| | | OSHA P0 | TWA | 100 ppm 375 mg/m3 |
| | | OSHA P0 | STEL | 150 ppm 560 mg/m3 |

*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.
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 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.

9. Physical and chemical properties

| | |
|--|---|
| Appearance | : liquid |
| Color | : sky gray |
| Odor | : characteristic |
| Odor Threshold | : no data available |
| Flash point | : 80.1 °F (26.7 °C) |
| Ignition temperature | : no data available |
| Decomposition temperature | : no data available |
| Lower explosion limit | : 1 %(V) |
| Upper explosion limit | : 7 %(V) |
| 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 | : 0.025 mmHg (0.0337 hpa) |
| Density | : 2.02 g/cm ³ at 68 °F (20 °C) |
| Water solubility | : no data available |
| Partition coefficient: n- octanol/water | : no data available |
| Viscosity, dynamic | : no data available |
| Viscosity, kinematic | : ca.> 20.5 mm ² /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 | : 331 g/l |



(VOC) content

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. Vapors may form explosive mixture with air. |
| Conditions to avoid | : Heat, flames and sparks. |
| Incompatible materials | : no data available |

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:

2-methoxy-1-methylethyl acetate :

| | |
|-----------------------|-------------------------------------|
| Acute oral toxicity | : LD50 Oral rat: > 5,000 mg/kg |
| Acute dermal toxicity | : LD50 Dermal rabbit: > 5,000 mg/kg |

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 : Suspected of causing cancer.

IARC

Group 2B: Possibly carcinogenic to humans

titanium dioxide 13463-67-7

NTP

not applicable

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.

Product

Assessment: May cause damage to organs through prolonged or repeated exposure if inhaled.

Aspiration toxicity**Product**

no data available

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****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.

14. Transport information**DOT**

| | |
|-------------------------------------|------------------------|
| UN number | 1263 |
| Description of the goods | Paint related material |
| Class | 3 |
| Packing group | III |
| Labels | 3 |
| Emergency Response Guidebook Number | 128 |

IATA

| | |
|--|------------------------|
| UN number | 1263 |
| Description of the goods | Paint related material |
| Class | 3 |
| Packing group | III |
| Labels | 3 |
| Packing instruction (cargo aircraft) | 366 |
| Packing instruction (passenger aircraft) | 355 |
| Packing instruction (passenger aircraft) | Y344 |

IMDG

| | |
|--------------------------|------------------------|
| UN number | 1263 |
| Description of the goods | PAINT RELATED MATERIAL |
| Class | 3 |
| Packing group | III |
| Labels | 3 |
| EmS Number 1 | F-E |
| EmS Number 2 | S-E |

Marine pollutant no

DOT: For Limited Quantity exceptions reference 49 CFR 173.150 (b)

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

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 : Fire 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 : The following components are subject to reporting levels established by SARA Title III, Section 313:

| | | |
|---------|----------|--------|
| Toluene | 108-88-3 | 5.00 % |
|---------|----------|--------|

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 | 5.00 % |
|---------|----------|--------|

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).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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**

| | | |
|---------------------|---|---|
| Health | * | 2 |
| Flammability | | 3 |
| Physical Hazard | | 0 |
| Personal Protection | | 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.

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