

**1. Product and company identification**

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

2. Hazards identification

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Potential Health Effects

| | |
|------------|--|
| Inhalation | May cause respiratory tract irritation. Harmful if inhaled in high concentrations |
| Skin | May cause skin irritation. |
| Eyes | May cause eye irritation. |
| Ingestion | May cause gastrointestinal disturbance. |
| Warning | Causes central nervous system depression Possible cancer hazard. Contains material which may cause cancer based on animal data. |

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

3. Composition/information on ingredients

| <u>Component</u> | <u>CAS Number</u> |
|--|--------------------------|
| Castor oil | 8001-79-4 |
| butane-1,4-diol | 110-63-4 |
| titanium dioxide | 13463-67-7 |
| Distillates (petroleum), hydrotreated middle | 64742-46-7 |
| Carbon black | 1333-86-4 |

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



4. First aid measures

First aid procedures

| | |
|--------------|--|
| Inhalation | If inhaled, remove to fresh air. If breathing is difficult, trained personnel should give oxygen. If not breathing, give artificial respiration. Get medical attention. |
| Skin contact | In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately if irritation develops and persists. |
| Eye contact | If easy to do, remove contact lens, if worn. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. |
| Ingestion | If swallowed, contact a poison control center or physician immediately. Do NOT induce vomiting unless directed to do so by medical personnel Never give anything by mouth to an unconscious person. |

Notes to physician

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

5. Fire-fighting measures

Fire fighting

| | |
|--------------------------------|---|
| Suitable extinguishing media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | none |
| Further information | Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk without suitable training. |

Protective equipment and precautions for firefighters

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

6. Accidental release measures

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



| | |
|---|---|
| | <p>Ensure adequate ventilation. Evacuate personnel to safe areas. No action shall be taken involving any personal risk without suitable training. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Material can create slippery conditions.</p> |
| Environmental precautions | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. |
| Methods for containment and cleaning up | <p>Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal.</p> |

7. Handling and storage

| | |
|----------|---|
| Handling | <p>For personal protection see section 8. Avoid inhalation, ingestion and contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area.</p> |
| Storage | <p>Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. To maintain product quality, do not store in heat or direct sunlight. Store in accordance with local regulations.</p> |

8. Exposure controls/personal protection

| <u>Exposure limit(s)</u> | | | | | |
|---------------------------------|--------------------------|-------------------------|-----------------------|---------------------|--|
| <u>Component</u> | <u>CAS Number</u> | <u>Content %</u> | <u>Basis *</u> | <u>Value</u> | <u>Exposure limit(s) / Form of exposure</u> |
| titanium dioxide | 13463-67-7 | 2.5 - 5 | ACGIH | TWA | 10 mg/m3 |
| | | 2.5 - 5 | OSHA P0 | TWA | 10 mg/m3 Total |
| | | 2.5 - 5 | OSHA Z-1 | TWA | 15 mg/m3 total dust |
| Carbon black | 1333-86-4 | 0 - 1 | ACGIH | TWA | 3.5 mg/m3 |
| | | 0 - 1 | OSHA Z-1 | TWA | 3.5 mg/m3 |
| | | 0 - 1 | OSHA P0 | TWA | 3.5 mg/m3 |

*** Basis**

ACGIH. Threshold Limit Values (TLV)

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

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

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

OSHA Z3. Table Z-3, Mineral Dust

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

Personal protective equipment

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

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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

Respiratory protection Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and immediately after handling the product.
Remove contaminated clothing and protective equipment before entering eating areas.

9. Physical and chemical properties**Appearance**

Form liquid

Color various

Safety data

Flash point Note: not applicable

Density 1.1 - 1.25 g/cm³

Viscosity, kinematic > 20.5 mm²/s

Volatile organic compounds
(VOC) content < 5 g/l (A+B+C Combined)



10. Stability and reactivity

| | |
|----------------------------------|--|
| Stability | Stable under normal conditions. No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | not applicable |
| Materials to avoid | not applicable |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

11. Toxicological information

| | |
|---------------------------|--|
| Acute oral toxicity | Component: 1,4-butanediol LD50 Oral rat Dose: 1,500 mg/kg |
| Acute dermal toxicity | Component: 1,4-butanediol LD50 Dermal rat Dose: > 2,000 mg/kg |
| Acute inhalation toxicity | Component: 1,4-butanediol LC50 rat Exposure time: 4 h Dose: 5.1 mg/l |
| Chronic 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. |

Carcinogenicity

| | |
|--------------|--|
| IARC | Group 2B: Possibly carcinogenic to humans titanium dioxide 13463-67-7 Carbon black 1333-86-4 |
| OSHA | not applicable |
| NTP | not applicable |
| ACGIH | not applicable |

12. Ecological information

| | |
|-------------------|--|
| Other information | Do not empty into drains; dispose of this material and its container in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. |
|-------------------|--|

13. Disposal considerations

| | |
|------------------------|---|
| Waste disposal methods | Disposal of this product, solutions and any by-products should at all |
|------------------------|---|



times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Packaging

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

14. Transport information

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

15. Regulatory information

Federal Regulations

TSCA Status

On TSCA Inventory

SARA 311/312 Hazards

Acute Health Hazard

Chronic Health Hazard

EPCRA - Emergency Planning Community Right - To - Know

SARA 302 Ingredients

not applicable

SARA 313 Ingredients

not applicable

Clean Air Act

Ozone-Depletion Potential

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

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

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

State Regulations

**California Prop. 65
Ingredients**

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

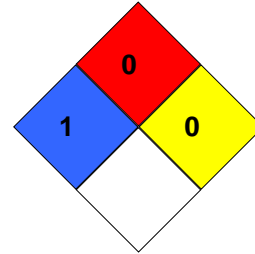
16. Other information



HMIS Classification

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

NFPA Classification



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

Notes to Reader

The information contained in this Material Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Technical Data Sheet, product label and Material Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this MSDS.

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

**1. Product and company identification**

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

2. Hazards identification

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

Potential Health Effects

| | |
|------------|---|
| Inhalation | Causes respiratory tract irritation. Harmful if inhaled. May cause allergic respiratory reaction. |
| Skin | May cause allergic skin reaction. Causes skin irritation. |
| Eyes | Causes eye irritation. |
| Ingestion | Harmful if swallowed. |

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

3. Composition/information on ingredients

| <u>Component</u> | <u>CAS Number</u> |
|--|--------------------------|
| methylenediphenyl diisocyanate | 26447-40-5 |
| Diphenylmethanediisocyanate, isomeres and homologues | 9016-87-9 |

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

4. First aid measures**First aid procedures**



| | |
|--------------|---|
| Inhalation | If inhaled, remove to fresh air. If breathing is difficult, trained personnel should give oxygen. If not breathing, give artificial respiration. Get medical attention immediately. |
| Skin contact | In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately if irritation develops and persists. |
| Eye contact | If easy to do, remove contact lens, if worn. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. |
| Ingestion | If swallowed, contact a poison control center or physician immediately. Do NOT induce vomiting unless directed to do so by medical personnel Never give anything by mouth to an unconscious person. Get medical attention immediately. |

Notes to physician

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

5. Fire-fighting measures**Fire fighting**

| | |
|--------------------------------|---|
| Suitable extinguishing media | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media | none |
| Further information | Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk without suitable training. |

Protective equipment and precautions for firefighters

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

6. Accidental release measures

| | |
|----------------------|--|
| Personal precautions | Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. No action shall be taken involving any personal risk without suitable |
|----------------------|--|



| | |
|---|--|
| | training. Keep people away from and upwind of spill/leak. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Material can create slippery conditions. |
| Environmental precautions | Local authorities should be advised if significant spillages cannot be contained. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. |
| Methods for containment and cleaning up | Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal. |

7. Handling and storage

| | |
|----------|--|
| Handling | For personal protection see section 8. Avoid inhalation, ingestion and contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. |
| Storage | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. To maintain product quality, do not store in heat or direct sunlight. Store in accordance with local regulations. |

8. Exposure controls/personal protection

Exposure limit(s)

Contains no substances with occupational exposure limit values.

*** Basis**

ACGIH. Threshold Limit Values (TLV)

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

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

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

OSHA Z3. Table Z-3, Mineral Dust

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

Personal protective equipment

| | |
|-----------------|---|
| Eye protection | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary. |
| Hand protection | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. |



| | |
|--------------------------|--|
| Skin and body protection | Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Respiratory protection | Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. |
| Hygiene measures | Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. Wash thoroughly after handling. |

9. Physical and chemical properties

Appearance

| | |
|----------------|--------|
| Physical state | liquid |
| Color | amber |
| Odor | musty |

Safety data

| | |
|--|---------------------------|
| Flash point | 424 °F (218 °C) |
| Ignition temperature | 464 °F (240 °C) |
| Density | 1.2 g/cm ³ |
| Viscosity, kinematic | > 20.5 mm ² /s |
| Volatile organic compounds (VOC) content | < 5 g/l (A+B+C Combined) |

10. Stability and reactivity

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

11. Toxicological information



Chronic Exposure

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

Carcinogenicity

not applicable

IARC

not applicable

OSHA

not applicable

NTP

not applicable

ACGIH

not applicable

12. Ecological information

Other information

Do not empty into drains; dispose of this material and its container in a safe way.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

13. Disposal considerations

Waste disposal methods

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Packaging

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

14. Transport information

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

15. Regulatory information

Federal Regulations

TSCA Status

On TSCA Inventory

SARA 311/312 Hazards

Acute Health Hazard

EPCRA - Emergency Planning Community Right - To - Know

SARA 302 Ingredients

not applicable

SARA 313 Ingredients

Diphenylmethanediisocyanate, isomers and homologues

9016-87-9

40 %

Clean Air Act



Ozone-Depletion Potential

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

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

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

State Regulations

**California Prop. 65
Ingredients**

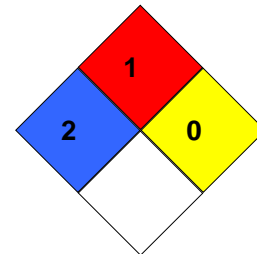
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. Other information

HMIS Classification

| | | |
|----------------------------|---|----------|
| Health | * | 2 |
| Flammability | | 1 |
| Physical Hazard | | 0 |
| Personal Protection | | G |

NFPA Classification



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



1. Identification

Product name : Sikafloor®-20 NA PurCem® Part C

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.
Serious eye damage, Category 1 H318: Causes serious eye damage.
Carcinogenicity, Category 1A H350: May cause cancer.

GHS Label element

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H315 Causes skin irritation.
H318 Causes serious eye damage.
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.
P264 Wash skin thoroughly after handling.
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.
P310 Immediately call a POISON CENTER or doctor/physician.
P332 + P313 If skin irritation occurs: 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.

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

3. Composition/information on ingredients

Hazardous ingredients

| Chemical Name | CAS-No. | Concentration (%) |
|---------------------------------|------------|-------------------|
| Quartz (SiO ₂) | 14808-60-7 | >= 50 - <= 100 % |
| Portland cement | 65997-15-1 | >= 10 - < 20 % |
| Quartz (SiO ₂) <5µm | 14808-60-7 | >= 0 - < 1 % |

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

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 : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Keep eye wide open while rinsing.
- 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 | : irritant effects carcinogenic effects Excessive lachrymation 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 | : 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. Avoid breathing dust. 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 | : Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. |

7. Handling and storage

| | |
|-------------------------|---|
| Advice on safe handling | : Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. 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.
 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 |
|----------------------------|------------|----------|-------|--|
| Quartz (SiO ₂) | 14808-60-7 | ACGIH | TWA | 0.025 mg/m ³ Respirable fraction |
| | | OSHA Z-3 | TWA | 30 mg/m ³ / %SiO ₂ +2 total dust |
| | | OSHA Z-3 | TWA | 10 mg/m ³ / %SiO ₂ +2 respirable |
| | | OSHA Z-3 | TWA | 250 mppcf / %SiO ₂ +5 respirable |
| | | OSHA P0 | TWA | 0.1 mg/m ³ Respirable fraction |
| Portland cement | 65997-15-1 | ACGIH | TWA | 1 mg/m ³ Respirable fraction |
| | | OSHA P0 | TWA | 10 mg/m ³ Total |
| | | OSHA P0 | TWA | 5 mg/m ³ Respirable fraction |
| | | OSHA Z-1 | TWA | 15 mg/m ³ total dust |
| | | OSHA Z-1 | TWA | 5 mg/m ³ respirable fraction |
| | | OSHA Z-3 | TWA | 50 Million particles per cubic foot Dust |



| | | | | |
|---------------------------------|------------|----------|-----|--|
| Quartz (SiO ₂) <5µm | 14808-60-7 | ACGIH | TWA | 0.025 mg/m ³ Respirable fraction |
| | | OSHA Z-3 | TWA | 30 mg/m ³ / %SiO ₂ +2 total dust |
| | | OSHA Z-3 | TWA | 10 mg/m ³ / %SiO ₂ +2 respirable |
| | | OSHA Z-3 | TWA | 250 mppcf / %SiO ₂ +5 respirable |
| | | OSHA P0 | TWA | 0.1 mg/m ³ Respirable fraction |

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

****Basis**

ACGIH. Threshold Limit Values (TLV)

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

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

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

OSHA Z3. Table Z-3, Mineral Dust

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

Personal protective equipment

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

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

Hand protection
Remarks

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is



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

9. Physical and chemical properties

| | |
|---|--|
| Appearance | : powder |
| Color | : gray |
| Odor | : odorless |
| Odor Threshold | : no data available |
| Flash point | : Note: not applicable |
| Ignition temperature | : no data available |
| 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.2.8 g/cm ³ at 73 °F (23 °C) |
| Water solubility | : Note: insoluble |



| | | |
|--|---|---|
| Partition coefficient: n-octanol/water | : | no data available |
| Viscosity, dynamic | : | no data available |
| Viscosity, kinematic | : | Note: not applicable |
| Relative vapor density | : | no data available |
| Evaporation rate | : | no data available |
| Burning rate | : | no data available |
| Volatile organic compounds (VOC) content | : | < 5 g/l NA PurCem (AB)+ 20 NA PurCem (C) 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 |

Skin corrosion/irritation

Product

Causes skin irritation.

Serious eye damage/eye irritation

Product

Causes serious eye damage.

Respiratory or skin sensitization

**Product**

no data available

Germ cell mutagenicity**Product**

Mutagenicity : no data available

Carcinogenicity**Product**

Carcinogenicity : May cause cancer.

IARC

Group 1: Carcinogenic to humans

Quartz (SiO₂) 14808-60-7Quartz (SiO₂) <5µm 14808-60-7**NTP**

Known to be human carcinogen

Quartz (SiO₂) 14808-60-7Quartz (SiO₂) <5µm 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

Prolonged exposure can cause silicosis.

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.



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 dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

Special precautions for user

no data available

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

not applicable

15. Regulatory information

TSCA list

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

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

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

SARA304 Reportable Quantity

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

SARA 311/312 Hazards

- : Acute Health Hazard
Chronic Health Hazard



- SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- SARA 313** : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

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

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

California Prop 65 WARNING! This product contains a chemical known in the State of California to cause cancer.
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 | * | 3 |
| Flammability | | 0 |
| 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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