# SAFETY DATA SHEET

## 1. Identification

**FortiSystems**
**16601 Central Green Blvd., Ste 100**
**Houston, TX 77032 USA**

**TRANSPORTATION EMERGENCY**

| | |
|---|---|
| CALL: | (832) 922-2926 |
| INTERNATIONAL: | (832) 922-2926 |

**NON-TRANSPORTATION**

| | |
|---|---|
| Emergency Phone: | (832) 922-2926 |
| Information Phone: | (833) 840-2777 |

| | |
|---|---|
| **Product Name:** | FORTIPOXY II - A SIDE |
| **Chemical Family:** | Epoxy Resin Mixture |
| **Use:** | Coating for spray polyurethane foam. |

## 2. Hazards Identification

**GHS Classification**

Carcinogenicity: Category IA

**GHS Label Elements**

Hazard pictograms:

Signal word: Danger

Hazard statements: May cause cancer.

Precautionary statements:

**Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear permeation resistant protective gloves and clothing. Wear eye and face protection.

**Response:**
IF exposed or concerned: Get medical attention.

**Storage:**
Store locked up.

**Disposal:**
Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity:
48%

## 3. Composition/Information on Ingredients

**Hazardous Components**

| Weight Percent | Components | CAS-No. | Classification |
|---|---|---|---|
| 0.1 - **1%** | Carbon Black | 1333-86-4 | Carcinogenicity Category 2 Inhalation. Specific target organ toxicity - single exposure Category 3 Respiratory system. |
| 0.1 - I% | Crystalline Quartz Silica | 14808-60-7 | Acute toxicity Category 4 Oral. Carcinogenicity Category IA. Specific target organ toxicity - repeated exposure Category 1 Lungs. |

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

## 4. First Aid Measures

**Most Important Symptom(s)/Effect(s)**

**Acute:** Not expected to cause adverse acute health effects.

**Eye Contact**

In case of contact, flush eyes with plenty of lukewarm water. Get medical attention if irritation develops.

**Skin Contact**

In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Get medical attention if irritation develops and persists.

**Inhalation**

If inhaled, remove to fresh air. Get medical attention if irritation develops.

**Ingestion**

If ingested, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

## 5. Firefighting Measures

**Suitable Extinguishing Media:** All extinguishing media are suitable.

**Unsuitable Extinguishing Media** No Data Available

**Fire Fighting Procedure**

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

**Hazardous Decomposition Products**
By Thermal Decomposition: ; Carbon Dioxide; Carbon Monoxide other potentially **toxic fumes**

**Unusual Fire/Explosion Hazards**
Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

## 6. Accidental Release Measures

**Spill and Leak Procedures**
Cleanup personnel must use appropriate personal protective equipment. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal.

## 7. Handling and Storage

**Handling/Storage Precautions**
Avoid breathing dust, vapor. or mist. Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use. Protect from freezing.

**Storage Period:**
12 Months

**Storage Temperature**
**Minimum:** I 'C (33.8 °F)
**Maximum:** 49 'C (120.2 'F)

**Substances to Avoid**
**None known.**

## 8. Exposure Controls/Personal Protection

The recommendations in this section should not be a substitute for a personal protective equipment (PPE) assessment performed by the employer as required by 29 CFR 1910 Subpart I.

**Exposure Limits**

**Carbon Black** (1333-86-4)
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Permissible exposure limit: 3.5 mg/m3

US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 3 mg/m3 (lnhalable fraction.)

US. ACGIH Threshold Limit Values
Hazard Designation: Group A3 Confirmed animal carcinogen with unknown relevance **to humans.**

**Crystalllne Quartz Silica** (14808-60-7)
US. ACGIH Threshold Limit Values

Time Weighted Average (TWA): 0.025 mg/m3 (Respirable fraction.)

US. OSHA Table Z-3 (29 CFR 1910.1000)
Time Weighted Average (TWA): 2.4 millions of particles per cubic foot of air (Respirable.)The exposure limit is calculated from the equation, 250/(%SiO2+5), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

US. OSHA Table Z-3 (29 CFR 1910.1000)
Time Weighted Average **(TWA):** 0.1 mg/m3 (Respirable.)The exposure limit is calculated from the equation, IO/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.

US. OSHA Table Z-3 (29 CFR 1910.1000)
Time Weighted Average (TWA): 0.3 mg/m3 (Total dust.)The exposure limit is calculated from the equation, 30/(%SiO2+2), using a value of I00% SiO2. Lower values of% SiO2 will give higher exposure limits.

US. ACGIH Threshold Limit Values
Hazard Designation: Group A2 Suspected human carcinogen.

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

**Industrial Hygiene/Ventilation Measures**
General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines.

**Respiratory Protection**
In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand Protection**
Ensure gloves remain in good condition during use and replace if deterioration is observed.

Permeation resistant gloves.

**Eye Protection**
splash proof goggles.

**Skin Protection**
Wear cloth work clothing including long pants and long-sleeved shirts.

**Additional Protective Measures**
Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should he available.

## 9. Physical and Chemical Properties

| | |
|---|---|
| **State of Matter:** | liquid |
| **Color:** | May vary |
| **Odor:** | Amine |
| **Odor Threshold:** | No Data Available |

| | |
|---|---|
| **pH:** | **No Data Available** |
| **Boiling Point:** | **100 °C (212 °F) similar to water** |
| **Flash Point:** | **Not applicable (water based product), however, solid material will support combustion if water has been evaporated.** |
| **Evaporation Rate:** | **No Data Available** |
| **Lower explosion limit:** | **No Data Available** |
| **Upper Explosion Limit:** | **No Data Available** |
| **Vapor Pressure:** | **17 mmHg @ 20 °C (68 °F) similar to water** |
| **Vapor Density:** | **No Data Available** |
| **Density:** | **No Data Available** |
| **Relative Vapor Density:** | **No Data Available** |
| **Specific Gravity:** | **I.SO** |
| **Solubility In Water:** | **No Data Available** |
| **Partition Coefficient: n-octanoVwater:** | **No Data Available** |
| **Auto-ignition Temperature:** | **No Data Available** |
| **Decomposition Temperature:** | **No Data Available** |
| **Dynamic Viscosity:** | **No Data Available** |
| **Kinematic Viscosity:** | **No Data Available** |

## 10. Stability and Reactivity

**Hazardous Reactions**

**Hazardous polymerisation does not occur.**

**Stability**

**Stable**

**Materials to Avoid**

**None known.**

**Hazardous Decomposition Products**

**By Thermal Decomposition: Carbon Dioxide; Carbon Monoxide; other potentially toxic fumes**

## 11. Toxicological Information

**Likely Routes of Exposure:**
**Skin Contact**
**Eye Contact**
**Ingestion**
**Inhalation**

**Health Effects and Symptoms**

**Acute: Not expected to cause adverse acute health effects.**
**Chronic: May cause cancer.**

**Toxicity Data for: FORTIPOXY II A SIDE**

**Acute Oral Toxicity**
**Acute toxicity estimate: > 5,000 mg/kg (Calculation method)**

**Acute Inhalation Toxicity**
**Acute toxicity estimate: > 40 mg/l, 4 h, vapour (Calculation method)**

**Toxicity Data for: Carbon Black**

**Acute Oral Toxicity**
LD50: > 8,000 mg/kg (rat, male/female) (OECD Test Guideline 401)

**Acute Dermal Toxicity**
LD50: > 3,000 mg/kg (rabbit)

**Skin Irritation**
rabbit, Non-irritating

**Eye Irritation**
Human, non-irritant

**Sensitization**
Buehler Test: negative (Guinea pig, OECD Test Guideline 406)

Skin sensitization (local lymph node assay **(LLNA)):: ** negative (Mouse, OECD Test Guideline 429)

**Repeated Dose Toxicity**
13 weeks, Inhalative: NOAEL: O.OOll mg/kg, (rat, )

**Mutagenicity**
Genetic Toxicity in Vitro:
Salmonella/rnicrosome test (Ames test): negative
Mammalian cell - gene mutation assay: positive (other mammalian cell line, Metabolic Activation: without)
Micronucleus test positive (other human cell line, Metabolic Activation: without)

Genetic Toxicity in Vivo:
Other assay: negative (Mouse, male, intraperitoneal)
negative

**Carcinogenicity**
Several inhalation studies involving carbon black in female rats have shown increases in benign and malignant lung tumors. Although a large body of data on possible mechanisms of carcinogenicity in rats was considered by the !ARC Working Group, it was not possible to state with confidence that the mechanisms of carcinogenicity in rats correlate to exposure in humans. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions.
**Developmental Toxicityfferatogenicity**
rat, female, Inhalative, 10 days, daily,

**Other Relevant Toxicity Information**
May cause irritation of respiratory tract.

Toxicity Data for: Crystalline Quartz Silica

**Acute Oral Toxicity**
LD50: 500 mg/kg (rat)

**Mutagenicity**
Genetic Toxicity in Vitro:
Ames: Negative results were reported in various in vitro studies. (Salmonella typhimurium. Metabolic Activation: with/without)

Genetic Toxicity in Vivo:

Sister Chromatid Exchange: ambiguous (hamster)
ambiguous

**Carcinogenicity**
rat, Male/Female, inhalation, 2 years, 6 hrs/day *5* days/week positive

**Carcinogenicity:**

| | |
|---|---|
| Talc (non-asbestos form) | **IARC** - Overall evaluation: 3 Not classifiable as to carcinogenicity to humans. |
| Carbon Black | **IARC** - Overall evaluation: 2B Possibly carcinogenic to humans. |
| Crystalline Quartz Silica | **NTP** - Hazard Designation: Known To Be Human Carcinogen.<br>**IARC** - Overall evaluation: 1 Carcinogenic to humans. |

## 12. Ecological Infonnation

**Ecological Data for FORTIPOXY A SIDE**

No data available for this product.

**Ecological Data for Carbon Black**
**Acute and Prolonged Toxicity to Fish**
LC0: > 1,000 mg/I (Danio rerio (zebrn fish), 96 h)

**Acute Toxicity to Aquatic Invertebrates**
EC50: > 5,600 mg/I (Water flea (Daphnia magna), 24 h)

**Toxicity to Microorganisms**
ECO: 100 - 800 mg/I, (Activated sludge microorganisms, 3 h)

**Ecological Data for Crystalline Quartz Silica**
**Additional Ecotoxicological Remarks**
No data available for this component.

## 13. Disposal Considerations

**Waste Disposal Method**
Waste disposal should be in accordance with existing federal, state and local environmental control Jaws.

**Empty Container Precautions**
Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning.

## 14. TransportationInfonnation

**Land transport /DOT)**
**Non-Regulated**

**Sea transport C™DGl**

Non-Regulated

Air transport QCAO/IA TA)
Non-Regulated

## 1s. Regnlatory Information

**United States Federal Regulations**
US. Toxic Substances Control Act: Listed on the TSCA Inventory.

No substances are subject to TSCA 12(b) export notification requirements.

**US. EPA CERCLA Hazardous Substances** (40 **CFR 302) Components:**
None

**SARA Section 311/312 Hazard Categories:**
Chronic Health Hazard

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title m Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components:**
None

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title Ill Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components:**
None

US. **EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):**
Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

**State Right-To-Know Information**
The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

**Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:**

| Weight percent | Components | CAS-No. |
|---|---|---|
| >=1% | Water | 7732-18-5 |
| 20 - 30% | Modified BPNECH Resin | |
| 7 -13% | Talc (non-asbestos form) | 14807-96-6 |
| >=1% | Proprietary Non-Hazardous Ingredients | |
| 1-5% | Propylene Glycol Methyl Ether | 107-98-2 |

**New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:**

| Weight percent | Components | CAS-No. |
|---|---|---|
| I -5% | Propylene Glycol Methyl Ether | 107-98-2 |

**Massachusetts Right to Know Extraordinarily Hazardous Substance List:**

| Weight percent | Components | CAS-No. |
|---|---|---|

| | | |
|---|---|---|
| 0.1 - 1% | Crystalline Quartz Silica | 14808-60-7 |
| 45 -50ppm | Ammonia | 7664-41-7 |

**California Prop. 65:**
Warning! This product contains chemical(s) known to the State of California to be Carcinogenic. Developmental toxin.

| **Weight percent** | **Components** | **CAS-No.** |
|---|---|---|
| 0.1 - 1% | Carbon Black | 1333-86-4 |
| 0.1 - 1% | Crystalline Quartz Silica | 14808-60-7 |
| <0.1% | n-Methyl-2-pyrrolidone | 872-50-4 |
| I -5 ppm | Toluene | 108-88-3 |

**CFATS (Chemical Facility Anti-Terrorism Standards) Chemicals**
To the best of our knowledge, this product does not contain Appendix A Chemicals of Interest (COi), at or above the Screening Threshold Quantity (STQ), as defined by the Department of Homeland Security Chemical Facility Anti-terrorism Standard (CFATS, 6 CFR Part 27.

Based on information provided by our suppliers, this product is considered "DRC Conflict Free" as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716; File No. S7-40-I O; Date: 2012-08-22).

## 16. Other Information

The method of hazard communication for FortiSystems is comprised of product labels and safety data sheets. Safety data sheets for all of our products and general product declarations are available for download at www.forti-systems.com.

| | |
|---|---|
| Contact: | Product Safety Department |
| Telephone: | 800-575-8966 |
| Version Date: | 04/16/2023 |
| SDS Version: | 3.1 |

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**11** Changes since the last version are highlighted in the margin. This version replaces all previous versions.