

Tstrata™ ISR

Version 6.0

REVISION DATE: 11/21/2014

SECTION 1- PRODUCT IDENTIFICATION

Trade name	Tstrata ISR
Product code	65CS 50 (50# BAG) 65CS 30 (3,000# BULK BAG) 65CS 33 (3,300# BULK BAG)
COMPANY	STRUCTURAL TECHNOLOGIES, LLC North America Technologies Center 7455 New Ridge Road, Suite T Hanover, MD 21076
Telephone	410-859-6539
Emergency Phone:	U.S. only: 1-800-424-9300 International Users Call Collect: 1-703-527-3887

SECTION 2- HAZARDS IDENTIFICATION**Emergency Overview**

fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of Entry

Inhalation	:	Dust may irritate nose and throat. Dust irritating to the respiratory tract.
Eyes	:	Direct contact may cause severe irritation. May cause mechanical irritation or abrasion, and possible chemical burns. May cause temporary injury.
Ingestion	:	May cause irritation to the mouth, throat and stomach. May cause gastrointestinal irritation, nausea, and vomiting.
Skin	:	May cause severe irritation. May cause dryness, cracking, irritation, and chemical burns. May produce cement dermatitis due to primary irritation from alkaline, hygroscopic and abrasive properties.

Aggravated Medical Conditions

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

Inhalation of crystalline silica (quartz) can cause cancer based on animal data, and IARC concludes sufficient evidence in humans (Group 1). Prolonged and repeated overexposure to free crystalline silica dust above the

may result from breathing free silica.

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SECTION 3 - PRODUCT COMPOSITION

Chemical Name	CAS-No.	Weight%
Crystalline Silica (Quartz)/ Silica		> 60.0
Portland cement	65997-15-1	15.0-40.0

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SECTION 4- FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation	Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.
Eye contact	Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.
Skin contact	Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
Ingestion	Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point	Not available.
Method	Not available.
Lower explosion limit	Not available.
Upper explosion limit	Not available.
Autoignition temperature	Not available.
Extinguishing media	This product is not expected to burn under normal conditions of use. Use that which is appropriate to the surroundings.
Hazardous combustion products	Not available.
Protective equipment for firefighters	Not applicable. Product is not expected to burn.
Fire and explosion conditions	This product not expected to ignite under normal conditions of use.

SECTION 6- ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Dampen material with water to control dusting. Scoop up and transfer to appropriate container for disposal. Flush spill area with water.

SECTION 7 - HANDLING AND STORAGE

Prevent inhalation of dust and contact with skin and eyes. Clean hands thoroughly after handling. Precautions also apply to emptied containers. Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment. Store in sealed containers in a cool, dry, ventilated warehouse location.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment

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Respiratory protection	Wear appropriate, properly fitted NIOSH/MSHA approved dust respirator where airborne concentrations are expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.
Hand protection	Use suitable impervious rubber or vinyl gloves and protective apparel to reduce exposure.
Eye protection	Wear appropriate eye protection. Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.
Skin and body protection	Prevent contact with shoes and clothing.
Protective measures	Use professional judgment in the selection, care, and use. Wear gloves, head coverings and full body clothing as necessary to prevent skin irritation. Washable or disposable clothing may be used. Do not take unwashed clothing home. Work clothes should be washed separately from other clothing and the washing machine rinsed thoroughly following use. Inform the launderer of the proper procedures. Store work clothes and street clothes separately to prevent contamination.
Engineering measures	Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use local exhaust when the general ventilation is inadequate.

Exposure Limits

Chemical Name	CAS Number	Regulation	Limit	Form
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	OSHA TWA: OSHA TWA: OSHA PEL: OSHA PEL: ACGIH TWA:	0.1 mg/m3 0.3 mg/m3 15 mg/m3 5 mg/m3 0.025 mg/m3	Respirable. Total dust. Total dust. Respirable fraction. Respirable fraction.
Portland cement	65997-15-1	OSHA PEL: OSHA PEL: ACGIH TWA:	5 mg/m3 15 mg/m3 1 mg/m3	Respirable fraction. Total dust. Respirable fraction.

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

Form	Powder
Color	Gray
Odor	None
pH	Not available.
Vapour pressure	Not available.
Vapor density	Not available.
Melting point/range	Not available.
Freezing point	Not available.
Boiling point/range	Not available.
Water solubility	Miscible
Specific Gravity	2.65-2.85

Material Safety Data Sheet

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% Volatile Weight : 0.0%

SECTION 10- REACTIVITY / STABILITY

Substances to avoid	Not Applicable.
Stability	Material is stable under normal storage, handling, and use.
Hazardous polymerization	Will not occur under normal conditions.

SECTION 11 -TOXICOLOGICAL INFORMATION

No Data Available

SECTION 12- ECOLOGICAL INFORMATION

No Data Available

SECTION 13- DISPOSAL CONSIDERATIONS

Disposal Method	Not regulated under RCRA. Dispose of in compliance with state and local regulations. Do not incinerate.
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SECTION 14- TRANSPORTATION / SHIPPING DATA

CFRIDOT:

Not Regulated

TDG:

Not Regulated

IMDG:

Not Regulated

SECTION 15- REGULATORY INFORMATION

North American Inventories:

This product or its components are listed on, or exempt from the Canadian Domestic Substances List. All components are listed or exempt from the TSCA inventory.

U.S. Federal Regulations:

SARA 313 Components	None present or none present in regulated quantities.
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SARA 311/312 Hazards Acute Health Hazard
 Chronic Health Hazard

OSHA Hazardous Components :
 Crystalline Silica (Quartz)/ Silica Sand 14808-60-7
 Portland cement 65997-15-1

OSHA Status: Considered Irritant
 hazardous based on the Carcinogen
 following criteria:

OSHA Flammability Not Regulated

Regulatory VOC (less water and 0g/1
 exempt solvent)
 VOC Method 310 0%

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:
 Crystalline Silica (Quartz)/ Silica Sand 14808-60-7

U.S. State Regulations:

MASS RTK Components Crystalline Silica (Quartz)/ Silica Sand 14808-60-7
 Portland cement 65997-15-1

Crystalline Silica (Quartz)/ Silica Sand 14808-60-7
 Portland cement 65997-15-1
 Formaldehyde 50-00-0

Penn RTK Components Crystalline Silica (Quartz)/ Silica Sand 14808-60-7
 Portland cement 65997-15-1

NJ RTK Components Crystalline Silica (Quartz)/ Silica Sand 14808-60-7
 Portland cement 65997-15-1

Components under California Proposition 65:

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm

SECTION 16-OTHER INFORMATION**HMIS Rating:**

Health	2
Flammability	0
Reactivity	0
PPE	

0 =Minimum
 1 =Slight
 2 =Moderate
 3 =Serious
 4 =Severe

Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



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Legend

ACGIH -American Conference of Governmental Hygienists

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

DOT- Department of Transportation

DSL - Domestic Substance List

EPA- Environmental Protection Agency

HMIS - Hazardous Materials Information System

IARC- International Agency for Research on Cancer

MSHA- Mine Safety Health Administration

NDSL - Non-Domestic Substance List

NIOSH - National Institute for Occupational Safety and Health

NTP- National Toxicology Program

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

RCRA - Resource Conservation and Recovery Act

RTK- Right To Know

SARA - Superfund Amendments and Reauthorization Act

STEL- Short Term Exposure Limit

TLV- Threshold Limit Value

TSCA- Toxic Substances Control Act

TWA -Time Weighted Average

V- Volume

VOC - Volatile Organic Compound

WHMIS -Workplace Hazardous Materials Information System