



SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

ControHeat Heat Transfer Compound, Grade 1

Manufacturer: Controls Southeast, Inc.
12201 Nations Ford Road
Pineville, NC 28134
Phone: 704-644-5000
Information Phone Number: 704-644-5000
Emergency Phone Number: 704-644-5000
Website: csiheat.com

Product Information: Phone: 704-644-5000
Website: csiheat.com
Email: sales@csiheat.com

Date Prepared: January 18, 2019

SECTION 2: HAZARDS IDENTIFICATION

Classification: OSHA Hazard Communication Standard

Not Hazardous

Label Elements:

Not hazardous in accordance with the OSHA Hazard Communication Standard (29CFR 1910.1200)

Pictograms: None required

Hazard Phases: None

Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS #	%
Sodium Silicate	1344-09-8	30-50%
Natural Graphite	7782-42-5	30-60%
Ball Clay	1332-58-7	10-20%

SECTION 4: FIRST AID MEASURES

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist. Not expected to be an inhalation hazard under typical conditions.

Skin Contact: Wash with soap or water. Get medical attention if irritation occurs or persist.

Eyes: Hold eye lids open and flush thoroughly with water for 5-10 minutes. Remove contact lenses. Get medical attention if irritation occurs or persist.

Ingestion: Rinse mouth with water. Call a physician if symptoms develop or persist. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed: None known.

Indication of any immediate medical attention and special treatment needed: Immediate medical attention generally not required.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray (fog), dry chemical, foam, or CO2. Material is non-combusitble.

Fire Fighting Instructions: Wear proper protective equipment and SCBA

Special Methods: N/A

General Fire Hazards: Water stream may splash burning liquid and spread fire

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Wear all appropriate Personal Protective Equipment (PPE). Keep all unnecessary personnel out of the area. Clean up spills immediately to prevent contamination of soil, surface or groundwater. Spills will create a slip hazard.

Methods and Materials for Containment and Cleaning Up: Because of its viscous nature, this product is not expected to leak or spill. Collect liquid spill (if any) with an inert absorbent material and place into a suitable container for disposal. Dispose of all spilled material into a container for disposal.

SECTION 7 : HANDLING AND STORAGE

Precautions for Safe Handling: Wear protective gloves and goggles when handling. Avoid prolonged contact with skin, and direct contact with eyes. Follow good industrial hygiene and safety practices when handling.

Precautions for Safe Storage: Store at room temperature. Keep lid sealed tightly when not in use. Protect compound from direct contact with water and acids.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

Hand Protection: Cotton or rubber gloves.

Eye Protection: Safety glasses with side shields or goggles.

Other Protection: Wear appropriate clothing to prevent direct skin contact. Safety shower and eye wash station should be within direct access. Wear NIOSH/MSHA approved respirators when removing hardened compound and dust levels exceed recommended TLV levels.

Graphite dust exposure limits: OSHA PEL: TWA 5 mg/m³ (resp)

Hygiene Measures: Wash hands at the end of each work shift, before eating, smoking and using the toilet. Wash promptly if skin comes in contact with product. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Environmental Exposure Controls: Keep container tightly sealed when not in use.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous Paste

Color: Black

Odor: No Odor

Specific Gravity: 1.7

PH: NA

Boiling Point: Very High

Vapor Pressure: 156 mmHg @ 61.5°C

Vapor Density: (Air=1) NA

Solubility in Water: 50-60%

Evaporation Rate: (Water=1) >1

SECTION 10 : STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Do not exceed instructed upper temperature limit.

Incompatible Materials: Compound will gel when mixed with acid. May form carbon monoxide if mixed with sugar residue.

Hazardous Decomposition Products: Uncured compound will decompose when mixed with acids.

SECTION 11 : TOXICOLOGICAL INFORMATION

Information on Toxicological effects

Eyes: May cause irritation if not treated.

Skin: May cause irritation with continued contact. Product is slightly alkaline. Prolonged or repeated exposure may cause skin irritation.

Ingestion: Irritation to mucous membranes of mouth, throat, esophagus and stomach could occur.

Inhalation: Not expected at ambient temperatures.

Carcinogen Status: None of the components of this product are listed as carcinogens by IARC, NTP or OSHA.

Health Hazards: This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.

Avoid contact with skin, eyes and clothing. Follow safe industrial hygiene practices when handling this product.

SECTION 12 : ECOLOGICAL INFORMATION

Toxicity: Data based on sodium silicate (30-50% total volume before curing).

Fish (Brachydanio rerio): LC50 (96 hour) 1108 mg/l

Aquatic invertebrates (Daphnia magna): EC50 (48 hour) 1700 mg/l

Persistence and Degradability: Sodium silicate rapidly de-polymerizes into a form indistinguishable from natural dissolved silica. Will not bio-accumulate.

Other: Alkalinity of this material may have a localized pH effect on ecosystems. Prevent discharge into sewers or streams.

SECTION 13 : DISPOSAL CONSIDERATIONS

Dispose in accordance with all local, state, regional and national regulations.

SECTION 14 : TRANSPORT INFORMATION

Special Shipping Precautions:

DOT Shipping Name: Not Required

DOT Hazard Class: None

Labels: None

Packaging Group: None

ID Number: None

RQ: None

Special Shipping Information: Not specifically listed in the US Hazardous Material Shipping Regulations (49CFR, Table 172.101). There are no known local, state, federal, or international transport restrictions.

DOT: Not regulated as dangerous goods.

IATA: Not regulated as dangerous goods.

IMDA: Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL73/78 and the ICB code: Not Established. Not Applicable.

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific of this product.

CERCLA Hazardous Substances (Section 103) RQ: This product is not subject to reporting requirements under CERCLA. However many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Not Hazardous

SARA 313: This product does not contain any chemicals regulated under SARA Title III, Section 313.

EPA TSCA Inventory: All of the components of this product are included or exempted from listing on the TSCA inventory of chemical substances.

California Proposition 65: This product is not known to contain listed chemicals.

This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as a probable human carcinogen.

SECTION 16 : OTHER INFORMATION

Controls Southeast, Inc. **704-644-5000**
12201 Nations Ford Road
Pineville, NC 28134

NFPA HAZARDS:

Fire: 0 Health: 1 Reactivity: 0

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief as of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Any information, data and opinions herein are based upon information provided and made available to us. CSI makes no warranty or representation, express or implied, to any person as to its accuracy, reliability, or completeness. The information, data, and opinions in this document are offered solely for the user's consideration, investigation, and verification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Any use of this safety data sheet and the product described must be in accordance with all local, state, and federal laws and regulations.