SAFETY DATA SHEET

Revision Date: July 21, 2017

SECTION 1: IDENTIFICATION

Product Name: TRACIT-600A Heat Transfer Compound

Recommended use: Heat tracing, surface-to-surface heat conduction

Manufacturer: Chemax Manufacturing Corporation

1025 River Road

New Castle, Delaware 19720 USA

Tel: (800) 804-4596, E-mail: sales@chemaxcorp.com

Emergency telephone number:

(800) 804-4596 ext. 2 (Manufacturer), (800) 222-1222 (Poison Control)

SECTION 2: HAZARD IDENTIFICATION

Classification: OSHA Hazard Communication Standard: This material is not considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200

Label elements: No significant hazard as per GHS

Pictograms: None required

Hazard phrases: None

Other hazards

Health hazards: Not expected to be a health hazard when used under normal conditions. Avoid prolonged contact with skin, and direct contact with eyes.

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

Description of first aid measures

Inhalation: Under typical conditions of intended use, material is not expected to be inhalation hazard. If symptoms exist, move to fresh air and seek medical attention.

Skin contact: Wash contact area with soap and water. Get medical attention if irritation persists.

Eye contact: Hold eye lids open and flush thoroughly with water for 5-10 minutes. Remove contact lenses. If irritation develops seek medical treatment.

Ingestion: Do not induce vomiting. Rinse mouth with fresh water. Call a doctor if symptoms persist.

Indication of immediate medical attention and special treatment needed:

No specific medical attention generally required.

SECTION 5: FIRE-FIGHTING MEASURES

Flammable limits: Material is non-combustible.

Suitable extinguishing media:

Water spray (fog), dry chemical, foam, or CO2.

Unsuitable extinguishing media:

Water stream may splash burning liquid and spread fire.

Special hazard arising from the substances or mixture:

No special exposure hazards are known.

Advice to firefighters: Wear proper protective equipment and SCBA.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Wear appropriate Personal Protective Equipment (PPE). Keep all unnecessary personnel out of the area. Clean up spills to prevent slipping hazards, and contamination of soil, surface, or groundwater.

Environmental precautions:

Material is water-soluble. Material is slightly alkaline and harmful to aquatic life (See Section 12: Ecological information). Prevent discharge into sewers or streams by covering nearby drains.

Methods and materials for containment and cleaning up:

This compound has a high viscosity, and will not likely leak or spill. Uncured material may simply be scooped-up using available tools. Water may be used to aid in cleaning-up hardened material. Place collected material into a closed container for disposal. Follow local disposal regulations.

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

Engineering measures/controls:

Keep container closed when not in use. Allow adequate ventilation.

Personal protective equipment (PPE)

Eye: Wear safety glasses/goggles when direct eye contact is a possibility.

Hand: Wear cotton or rubber gloves when handling.

Respiratory: 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)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Color: Black

Physical state: Semi-solid

Specific gravity: 1.7

Odor and threshold: None

pH: 10-12

Vapor pressure: 156 mmHg. at 61.5 °C

Evaporation rate: >1 (water)

% volatile by volume: 0 %.

Solubility in water: 50-60%

Boiling point: 216 °F (102 °C)

Flash point (°C): No volatile organic content.

Explosion properties: No data available

Vapor density: No data available

Relative density: No data available

Partition coefficient: No data available

Auto-ignition temp.: No data available

Decomposition temp: No data available

Viscosity: No data available

Flammability: No data available

Freezing point: 32 °F (0 °C)

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Compound is not reactive under normal conditions of intended use.

Stability: Compound is stable if used in recommended temperature range.

Conditions to be avoided:
Do not exceed instructed upper temperature limit.

Materials to avoid: 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: Compound is slightly alkaline, and repeated contact may case irritation.
Ingestion: May cause irritation to mucous membranes of mouth, throat, stomach.
Inhalation: No adverse effects.

Carcinogen status: Product is not listed as a possible carcinogen by OSHA, IARC, or NTP.

Health hazards: No known chronic effects. Not expected to aggravate medical conditions.

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 adverse effects:
Alkalinity of this material may have a localized pH effect on ecosystems.

Other information: Prevent discharge into sewers or streams.

SECTION 13: DISPOSAL CONSIDERATIONS

Product waste: Dispose of product in accordance with local, regional, national, and/or international regulations. Prevent discharge into sewers or streams.

Packaging waste: Dispose of container in accordance with local, regional, national, and/or international regulations.

SECTION 14: TRANSPORT INFORMATION

Special shipping precautions/information:

Product is not listed in the US hazardous materials shipping regulations (49cfr, table 172.101). No known local, state, federal, or international transport restrictions.

	Bulk shipping	Non-bulk shipping	Identification #	Hazardous class
US DOT:	Not required	Not required	Not required	Not required
Canadian TDG:	Not required	Not required	Not required	Not required
European :	Not required	Not required	Not required	Not required
ADR, IMDG, IATA-DGR:	Not classified as hazardous product for land, sea and air transport.			

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

OSHA Hazard Communication Standard:

This material is not considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

TSCA Inventory list: Reported/listed.

SARA 311/312.: This material does not contain any chemical substance on SARA extremely hazardous substance list.

SARA 313: This product contains no chemicals regulated under SARA Title III, Section 313.

SECTION 16: OTHER INFORMATION

NFPA HAZARDS: Health: 1 Reactivity: 0 Fire: 0