

**TRACIT-300 Heat Transfer Compound-Safety Data Sheet**

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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**Revision Date:** May 12, 2021

**SECTION 1: IDENTIFICATION**

**Product Name:** TRACIT-300 Heat Transfer Compound

**REACH number:** Not relevant (mixture)

**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@chemax.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

**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**

**Substances:** Not applicable

**Mixtures:**

Ingredient	CAS #	%
Sodium Silicate	1344-09-8	30-50%

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of § 1910.1200.

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### 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 CO<sub>2</sub>.

#### 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.

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### 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/m<sup>3</sup> (resp)

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Color:</b>	Black
<b>Physical state:</b>	Semi-solid
<b>Specific gravity:</b>	1.7
<b>Odor and threshold:</b>	None
<b>pH:</b>	10-12
<b>Vapor pressure:</b>	156 mmHg. at 61.5 °C
<b>Evaporation rate:</b>	>1 (water)
<b>% volatile by volume:</b>	0 %.
<b>Solubility in water:</b>	50-60%
<b>Boiling point:</b>	216 °F (102 °C)
<b>Flash point (°C):</b>	No volatile organic content.
<b>Explosion properties:</b>	No data available
<b>Vapor density:</b>	No data available
<b>Relative density:</b>	No data available
<b>Partition coefficient:</b>	No data available
<b>Auto-ignition temp.:</b>	No data available
<b>Decomposition temp:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Flammability:</b>	No data available
<b>Freezing point:</b>	32 °F (0 °C)

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### 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 cause 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:**

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

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### 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.

	<b>Bulk shipping</b>	<b>Non-bulk shipping</b>	<b>Identification #</b>	<b>Hazardous class</b>
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**

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

**OSHA Hazard Communication Standard:**

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

**TSCA Inventory list:**

All chemical substances in this product are listed as “Active” in the EPA (Active-Inactive) Requirements Rule as of 2/2019 or are otherwise exempt.



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**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.

### CA General Emissions Evaluation:

Only water will evaporate from this material. Contains no VOCs.

## SECTION 16: OTHER INFORMATION

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