SAFETY DATA SHEET

Trade Name	TAC850TN Web Spray Polymer Concrete Molding Process Tackifier
SDS #	S-0108 V1
Date of Issue	04/17/2025
Replaces (Date/Revision #)	04/17/2025 – NEW
Effective Date	04/17/2025

SECTION 1 – Identification

Product Name: TAC850TN Web Spray Polymer Concrete Molding Process Tackifier

Other Means of Identification: TAC850TN-22L, TAC850TN-108L

Product Code Number: TAC850TN

Recommended Use: Web Spray Polymer Concrete Molding Process Tackifier

Recommended Restrictions: Uses other than described as above. Industrial Use Only

Suppliers Details

Company:

Forza, Inc.

3211 Nebraska Ave, Suite #300

Council Bluffs, IA 51501, USA

Company Phone Number:

1-402-731-9300 (Available 8:00 am – 4:30 pm CST)

Emergency Phone Number:

Chemtrec 1(800)-424-9300

SECTION 2 – Hazard Identification

Classification (GHS):
Flammable Liquid – Category 2
Aspiration Hazard – Category 1
Specific Target Organ Toxicity – Single Exposure – Category 3
Gas Under Pressure – Compressed Gas

Signal Word: DANGER

Hazard Pictograms:

Hazard Statements:
Highly flammable liquid and vapor
May be fatal if swallowed and enters airways
May cause drowsiness or dizziness
Contains gas under pressure; may explode if heated

Precautionary Statements:
Keep away from heat/sparks/open flames/hot surfaces – No smoking
Avoid breathing vapor or mist
Use only outdoors or in a well-ventilated area
Wear protective gloves/eye protection/face protection
Store in a well-ventilated place. Keep container tightly closed
Dispose of contents/container in accordance with local/regional/national regulations

SECTION 3 – Composition/Information on Ingredients

Mixture:

Component	CAS Number	% w/w	GHS Classification
Methyl Acetate	79-20-9	40-50%	Flam. Liq. 2, Eye Irrit. 2A, STOT SE 3
Heptane	142-82-5	5-10%	Flam. Liq. 2, Asp. Tox. 1, STOT SE 3, Skin Irrit. 2, Aquatic Chronic 2
Titanium Dioxide	Proprietary	< 1%	Not classified (bound in non-respirable aerosolized liquid mixture)*
Non-Hazardous Ingredients**	Proprietary	40-50%	Not classified

Best Practice Statement:
*Titanium Dioxide is not classified as a carcinogen in this product because it is bound in a liquid matrix and is aerosolized only in a non-respirable droplet form. **Grouped non-hazardous components include resins, stabilizers, and polymeric additives that do not meet criteria for classification under GHS Rev. 5.

SECTION 4 – First-Aid Measures

Inhalation: Move person to fresh air. If symptoms persist, seek medical attention.
Skin Contact: Wash with plenty of soap and water. Remove contaminated clothing.
Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Ingestion: Do NOT induce vomiting. Immediately call a poison center or doctor.
Symptoms: Dizziness, headache, respiratory irritation, nausea, coughing.

SECTION 5 – Fire-Fighting Measures

Suitable Extinguishing Media: CO_2, dry chemical, foam
Hazards: Vapors may form explosive mixtures with air. Containers may rupture due to pressure buildup when exposed to extreme heat.
Protection for Firefighters: Wear self-contained breathing apparatus and full protective gear.

SECTION 6 – Accidental Release Measures

Evacuate area. Remove all sources of ignition. Provide ventilation. Contain and collect spillage with non-combustible absorbent materials. Dispose of in accordance with regulations.

SECTION 7 – Handling and Storage

Handle with proper ventilation. Avoid contact with skin and eyes. Store in tightly closed original container in a cool, dry, and well-ventilated area. Keep away from heat/sparks/open flame.

SECTION 8 – Exposure Controls / Personal Protection

Component	OSHA PEL	ACGIH TLV	NIOSH REL
Methyl Acetate	200 ppm	200 ppm	200 ppm
Heptane	500 ppm	400 ppm	85 ppm
Titanium Dioxide	15 mg/m^3	10 mg/m^3	5 mg/m^3

Engineering Controls: Use explosion-proof equipment and local exhaust ventilation.
Personal Protection: Chemical-resistant gloves, safety goggles, and organic vapor respirator.

SECTION 9 – Physical and Chemical Properties

Appearance: tan colored liquid
Odor: Solvent-like
Flash Point: < -4°C
Boiling Point: 56–100°C
Vapor Pressure: High
VOC Content: < 45 g/L Solubility: Slightly soluble in water
Auto-Ignition Temp: ~230°C

SECTION 10 – Stability and Reactivity

Stable under normal handling conditions. Avoid sources of ignition. Incompatible with strong oxidizing agents.
Decomposition Products: CO, CO_2, hydrocarbons

SECTION 11 – Toxicological Information

Component	Oral LD_{50} (rat)	Dermal LD_{50} (rabbit)	Inhalation LC_{50} (rat)
Methyl Acetate	3705 mg/kg	>5000 mg/kg	16,000 ppm (4h)
Heptane	>5000 mg/kg	>2000 mg/kg	103,000 mg/m³ (4h)
Titanium Dioxide	>10,000 mg/kg	>10,000 mg/kg	Not available

Additional Toxicological Note:
Titanium Dioxide is not expected to pose a carcinogenic hazard in this product form, as it is fully incorporated into a liquid adhesive matrix and aerosolized only in non-respirable droplet form. According to OSHA and IARC, carcinogenicity applies only to airborne, unbound respirable particles of TiO_2.

Carcinogenicity Table

Component	IARC	NTP	OSHA
Titanium Dioxide	Group 2B (possible)	Not listed	Not regulated
Heptane	Not classified	Not listed	Not regulated
Methyl Acetate	Not classified	Not listed	Not regulated

SECTION 12 – Ecological Information

Ecotoxicity:
This product contains components that may be harmful to aquatic organisms with long-lasting effects.

Component	Fish LC_{50} (96h)	Algae EC_{50} (72h)	Daphnia EC_{50} (48h)
Methyl Acetate	250–290 mg/L	120 mg/L	1026 mg/L
Heptane	4.0 mg/L	1.5 mg/L	1.5 mg/L
Titanium Dioxide	>1000 mg/L	>1000 mg/L	>1000 mg/L

Persistence and Degradability:
Methyl Acetate is expected to biodegrade quickly.
Heptane is persistent in aquatic environments and may cause long-term adverse effects.
Titanium Dioxide is not biodegradable and remains stable in the environment.

Bioaccumulative Potential:
Heptane may bioaccumulate in aquatic organisms due to its low water solubility and high partition coefficient.
Methyl Acetate has low potential for bioaccumulation.
Titanium Dioxide shows low bioaccumulation potential due to its insolubility.

Mobility in Soil:
Methyl Acetate and Heptane are volatile and may evaporate from soil surfaces.
Titanium Dioxide is expected to bind tightly to soil and sediment due to its particulate nature.

Other Adverse Effects:
Avoid release to the environment. Even small amounts may pose a risk to aquatic life over time.

SECTION 13 – Disposal Considerations

Dispose in accordance with local, state, and federal regulations. Do not discharge into drains or the environment.

SECTION 14 – Transport Information

UN Number: UN3501
UN Proper Shipping Name: Chemical under pressure, flammable, n.o.s. (Methyl Acetate, Heptane)
Transport Hazard Class(es): 2.1
Packing Group: Not applicable
Environmental Hazards (Marine Pollutant): No

Special Precautions for User: Avoid transport in vehicles where the load space is not separated from the driver's compartment. Ensure containers remain securely fastened in transit.
Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable
Additional GHS Best Practice Note: This product is classified according to DOT and GHS Rev. 5 guidelines, and the shipping description should always reflect container capacity, inner packaging, and mode of transportation. This product is not eligible for Limited Quantity exemptions due to volume.

SECTION 15 – Regulatory Information

Federal Regulations:
TSCA Inventory: All components are listed or exempt
SARA Title III Section 311/312: Fire Hazard, Immediate Health Hazard
SARA Title III Section 313: This product does not contain any components at or above reportable thresholds subject to Section 313
CERCLA Hazardous Substances: Heptane (RQ 100 lbs)

Right-to-Know State Listings:

Methyl Acetate – MA, NJ, PA
Heptane – MA, NJ, PA
Titanium Dioxide – MA, NJ, PA

California Proposition 65:
This product does not contain any chemicals known to the State of California to cause cancer or reproductive harm in the form present. Titanium Dioxide is not considered a Proposition 65 carcinogen in this bound, non-respirable liquid aerosol form.

GHS Rev. 5 Best Practice Compliance Statement:
This SDS has been prepared according to the most current revision of the Globally Harmonized System (GHS Rev. 5) for chemical hazard classification and communication. It includes physical, health, and environmental hazard details, regulatory disclosures, and transport classification in compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), EPA, DOT, and applicable industry best practices.

SECTION 16 – Other Information

Revision Date: 4.17.2025

Prepared by: Forza, Inc.

GHS Rev. 5 Compliance: This SDS has been prepared in accordance with GHS Revision 5 standards and complies with EPA, OSHA, and DOT regulations. Users should ensure they meet jurisdiction-specific requirements.

Disclaimer: The information provided in this SDS is believed to be accurate as of the revision date but is subject to change based on new regulations or updated research findings. Users are responsible for compliance with all applicable laws and regulations.