

SAFETY DATA SHEET

Trade Name	R221 A
SDS #	S-0131 V2
Date of Issue	05/13/2025
Replaces (Date/Revision #)	08/24/2022 – V1
Effective Date	05/13/2025

SECTION 1 – Identification

Product Name: R221 A

Other Means of Identification: N/A

Product Code Number: R221

Recommended Use: Adhesive/Sealant

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:

Skin Irritation – Category 2

Eye Irritation – Category 2A

Specific Target Organ Toxicity – Single Exposure – Category 3 (respiratory)

Signal Word: WARNING

Hazard Pictogram:



Hazard Statements:

Causes skin irritation
 Causes serious eye irritation
 May cause respiratory irritation

Precautionary Statements:

Avoid breathing vapors or spray. Use only in well-ventilated areas.
 Wear protective gloves and eye/face protection.
 IF ON SKIN: Wash with plenty of soap and water.
 IF INHALED: Remove person to fresh air and keep comfortable.
 IF IN EYES: Rinse cautiously with water for several minutes.
 Dispose of contents/container in accordance with local/regional/national regulations.

SECTION 3 – Composition/Information on Ingredients

Chemical Description	CAS Number	% w/w
Proprietary	Proprietary	80-90%
Treated Amorphous Silica	7631-86-9	5-10%
Titanium Dioxide (encapsulated within the product matrix and not expected to be airborne or unbound during normal use)	13463-67-7	1-5%
UV Stabilizer Blend	Proprietary	< 1%
Polyfunctional Amine Catalyst	Proprietary	1-5%
Vinyltrimethoxysilane	2768-02-7	1-5%
Aminoalkylsilane	1760-24-3	5-10%

No other ingredients present at or above the 1% threshold (0.1% for carcinogens) requiring disclosure under 29 CFR 1910.1200.

SECTION 4 – First-Aid Measures

Inhalation: Remove victim to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing.

Eye Contact: Flush eyes cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.

Ingestion: Rinse mouth. Do not induce vomiting. Seek medical advice immediately.

SECTION 5 – Fire-Fighting Measures

Extinguishing Media: Use dry chemical, foam, CO₂, or water spray.

Special Hazards: Vapors may form explosive mixtures with air. Combustion may produce CO, CO₂, and other toxic gases.

Protective Equipment: Self-contained breathing apparatus and full protective gear.

SECTION 6 – Accidental Release Measures

Evacuate area. Ventilate area. Wear suitable protective equipment. Absorb with inert material. Prevent entry into drains or waterways. Dispose in accordance with regulations.

SECTION 7 – Handling and Storage

Handle with appropriate PPE in well-ventilated areas. Avoid skin and eye contact. Store in cool, dry area in closed, labeled containers. Keep away from incompatible materials such as strong acids or oxidizers

SECTION 8 – Exposure Controls / Personal Protection

Component	OSHA PEL	ACGIH TLV
Titanium Dioxide	15 mg/m ³ (T)	10 mg/m ³ (T)
Vinyltrimethoxysilane	N/A	N/A
Aminoalkylsilane	N/A	N/A

Engineering Controls: Adequate ventilation or local exhaust.

PPE: Chemical goggles, gloves, long sleeves. Respirator if ventilation is insufficient.

SECTION 9 – Physical and Chemical Properties

Appearance: Opaque liquid
 Color: Gray
 Odor: Mild acrylic
 pH: Not applicable
 Flash Point: >93°C (Closed Cup)
 Boiling Point: >100°C
 VOC Content: <1% w/w
 Solubility: Partial in water

SECTION 10 – Stability and Reactivity

Stable under normal conditions. Avoid extreme heat, open flame, and incompatible materials.
 No hazardous polymerization expected.

SECTION 11 – Toxicological Information

Component	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Vinyltrimethoxysilane	7,100 mg/kg	>15,000 mg/kg	>16.8 mg/L (4h)
Aminoalkylsilane	2,000 mg/kg	>2,000 mg/kg	Not available

Likely Routes of Exposure: Inhalation, skin, eyes

Symptoms: Irritation of skin, eyes, or respiratory tract

Carcinogenicity: Titanium Dioxide is IARC Group 2B (possible human carcinogen by inhalation); not expected to pose a risk in this encapsulated form under normal handling conditions.

SECTION 12 – Ecological Information

Component	Fish LC50 (96h)	Daphnia EC50 (48h)	Algae EC50 (72h)
Vinyltrimethoxysilane	>100 mg/L	>100 mg/L	>100 mg/L

Avoid release into the environment. Product is not classified as environmentally hazardous but components may have local impact.

SECTION 13 – Disposal Considerations

Dispose in accordance with federal, state, and local environmental control regulations. Do not pour into drains or water systems.

SECTION 14 – Transport Information

DOT: Not Regulated

IMDG/IATA: Not Regulated

SECTION 15 – Regulatory Information

TSCA Inventory: All components listed or exempt

CERCLA Hazardous Substances: None listed

SARA 311/312: Acute health hazard

Right-to-Know (NJ/PA/MA): Titanium Dioxide

California Proposition 65: Not applicable (titanium dioxide is encapsulated and not airborne or unbound under normal conditions).

SECTION 16 – Other Information

Revision Date: 05.13.2025

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.