

SAFETY DATA SHEET

Trade Name	TC452
SDS #	S-0028 V8
Date of Issue	04/14/2025
Replaces (Date/Revision #)	05/02/2024 – V7
Effective Date	04/14/2025

SECTION 1 – Identification

Product Name: TC452

Other Means of Identification: TC452-22L, TC452-108L, TC452B-22L, TC452B-108L

Product Code Number: TC452, TC452B

Recommended Use: Adhesive/Sealant

Recommended Restrictions: Uses other than described as above

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 of the Substance or Mixture:

Gases Under Pressure – Compressed Gas

Acute Toxicity (Inhalation) – Category 4

Eye Irritation – Category 2A

Skin Irritation – Category 2

Specific Target Organ Toxicity (Single Exposure) – Category 3 (narcotic effects)

Label Elements:
Signal Word: Warning

Hazard Pictograms:

Hazard Statements:

Contains gas under pressure; may explode if heated

Causes skin and eye irritation

May cause drowsiness or dizziness

Harmful if inhaled

Precautionary Statements:

Avoid breathing vapors or mist

Use only outdoors or in a well-ventilated area

Wear protective gloves and eye protection

If inhaled: Remove to fresh air and keep at rest. Seek medical advice

If on skin: Wash with water. Get medical attention if irritation develops

If in eyes: Rinse cautiously with water. Remove contact lenses if present. Continue rinsing

Store in a well-ventilated place. Protect from sunlight

Dispose of contents/container in accordance with local regulations

Other Hazards:

Product is under pressure. Do not puncture or incinerate container

SECTION 3 – Composition/Information on Ingredients

Component	CAS Number	% w/w	GHS Classification
Trans-1,2-Dichloroethylene	156-60-5	50-60%	STOT SE 3, Asp. Tox. 1, Acute Tox. 4 (inh), Eye Irrit. 2A
PF-C (Solstice PF-C)	102687-65-0	10-20%	Acute Tox. 4, Eye Irrit. 2A
Carbon Dioxide (CO ₂)	124-38-9	5-10%	Gases Under Pressure – Compressed Gas
Non-Hazardous Ingredients	Proprietary	20-30%	Not classified (per GHS Rev. 5)
Blue Dye*	Proprietary	0.15%	Not classified

This product contains several substances that are not classified as hazardous under GHS Rev. 5, OSHA 29 CFR 1910.1200, or applicable international regulations. In accordance with GHS Section 3.2.1(c), these non-hazardous ingredients have been grouped into a single line to enhance clarity and readability, without affecting hazard communication or safety information.

*Applies to TC452B products only

SECTION 4 – First-Aid Measures

Inhalation:

Remove to fresh air. Keep comfortable and provide oxygen if necessary. Seek medical attention if symptoms persist

Skin Contact:

Remove contaminated clothing. Wash with soap and water. Seek medical advice if irritation develops

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. Get medical attention

Ingestion:

Do not induce vomiting. Rinse mouth. Seek medical attention immediately

Symptoms:

Eye and skin irritation, respiratory discomfort, dizziness, drowsiness, headache

Notes for Medical Personnel:

Treat symptomatically. Observe for delayed pulmonary effects from inhalation

SECTION 5 – Fire-Fighting Measures

Extinguishing Media:

Dry chemical, carbon dioxide, foam. Water spray for cooling

Hazards from Combustion Products:

Carbon monoxide, carbon dioxide, hydrogen chloride, and fluorinated compounds

Protective Equipment:

Self-contained breathing apparatus and full protective clothing required

Special Precautions:

Containers may rupture under fire conditions. Cool with water if exposed to heat

SECTION 6 – Accidental Release Measures

Personal Precautions:

Evacuate area. Provide adequate ventilation. Avoid contact and inhalation

Environmental Precautions:

Prevent entry into drains, sewers, or water bodies

Methods for Cleanup:

Absorb spill with inert material. Transfer to labeled waste container. Wash area with water and detergent

SECTION 7 – Handling and Storage

Precautions for Safe Handling:

Use only in well-ventilated areas. Avoid contact with eyes and skin. Prevent static discharge

Conditions for Safe Storage:

Store in a dry, cool, well-ventilated area away from heat and direct sunlight. Keep container sealed

SECTION 8 – Exposure Controls / Personal Protection

Exposure Limits

Component	OSHA PEL	ACGIH TLV	NIOSH REL
Trans-1,2-Dichloroethylene	200 ppm (TWA)	200 ppm (TWA)	200 ppm (TWA)
Carbon Dioxide	5000 ppm (TWA)	5000 ppm (TWA), 30,000 STEL	5000 ppm (TWA)
PF-C	Not established	Not established	1 mg/m ³ (manufacturer limit)

Engineering Controls:

Local exhaust and general ventilation recommended to maintain airborne levels below limits

Personal Protective Equipment:

Eyes: Chemical splash goggles

Skin: Chemical-resistant gloves and long-sleeved clothing

Respiratory: NIOSH-approved respirator where vapor concentrations exceed limits

Hygiene: Wash thoroughly after handling. Do not eat, drink, or smoke while using

SECTION 9 – Physical and Chemical Properties

Appearance: Clear to slightly yellow and/or blue liquid

Odor: Mild, ether-like

Flash Point: >60°C (ASTM D3278)

Boiling Point: ~48°C

Auto-Ignition Temperature: ~413°C

Vapor Pressure: High

Density: ~1.28 g/cm³

VOC Content: ~322 g/L

Solubility in Water: Negligible

pH: Not applicable

Viscosity: Low

Decomposition Temperature: Not determined

SECTION 10 – Stability and Reactivity

Reactivity:

Stable under normal conditions

Chemical Stability:

Stable during storage and handling under normal conditions

Incompatible Materials:

Strong oxidizers, strong acids, and alkalis

Hazardous Decomposition Products:

May include CO, CO₂, hydrogen chloride, HF, and fluorinated organics

Hazardous Reactions:

None expected under recommended conditions

SECTION 11 – Toxicological Information

Toxicity Data

Component	Oral LD ₅₀ (rat)	Dermal LD ₅₀ (rabbit)	Inhalation LC ₅₀ (rat, 4h)
Trans-1,2-Dichloroethylene	1235 mg/kg	>5000 mg/kg	18,900 ppm
PF-C	>2000 mg/kg	>2000 mg/kg	>4 mg/L
Carbon Dioxide	Non-toxic	Non-toxic	100,000 ppm

Skin/Eye Irritation:

Irritating to eyes and skin

Sensitization:

Not a known sensitizer

Carcinogenicity:

Not listed as carcinogenic by IARC, NTP, or OSHA

SECTION 12 – Ecological Information

Ecotoxicity Data

Component	Fish (LC ₅₀ , 96h)	Algae (EC ₅₀ , 72h)	Invertebrates (EC ₅₀ , 48h)
Trans-1,2-Dichloroethylene	135 mg/L	26 mg/L	220 mg/L
PF-C	No data available	No data available	No data available
Carbon Dioxide	Not applicable	Not applicable	Not applicable

Persistence and Degradability:

PF-C is persistent. DCE is moderately degradable

Bioaccumulation Potential:

PF-C may bioaccumulate. DCE has low potential

SECTION 13 – Disposal Considerations

Waste Disposal:

Dispose in accordance with federal, state, and local regulations. Do not discharge into water systems

Container Disposal:

Do not reuse or incinerate closed containers. Depressurize before disposal

SECTION 14 – Transport Information

UN Number: UN3500

Proper Shipping Name: Chemical Under Pressure, N.O.S. (Air, Compressed)

Transport Hazard Class: 2.2 (Non-flammable compressed gas)

Packing Group: Not applicable

Label Required: Non-Flammable Gas

Marine Pollutant: No

Limited Quantity: Not eligible (container >1 liter)

SECTION 15 – Regulatory Information

TSCA Inventory:

All ingredients are listed or exempt

SARA 313:

Trans-1,2-Dichloroethylene is subject to reporting

CERCLA:

1000 lb RQ – Trans-1,2-Dichloroethylene

Right-to-Know State Disclosures

State	Listed Chemicals
New Jersey	Trans-1,2-Dichloroethylene, Carbon Dioxide
Pennsylvania	Trans-1,2-Dichloroethylene, Carbon Dioxide
Massachusetts	Trans-1,2-Dichloroethylene, Carbon Dioxide

California Proposition 65

This product does not contain substances known to the State of California to cause cancer, birth defects, or reproductive harm.

SECTION 16 – Other Information

Revision Date: 4.14.2025

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.

