

<b>Document Type</b>	<b>SAFETY DATA SHEET</b>
<b>Trade Name</b>	TC456 Aerosol
<b>SDS #</b>	S-0089 V1
<b>Date of Issue</b>	2/25/2025
<b>Replaces (Date/Revision #)</b>	2/25/2025 - V1
<b>Effective Date</b>	2/25/2025

## Section 1: Identification

### GHS Product Identifier: Product

name: TC456, TC456R

Other means of identification: TC456 Aerosol, TC456R Aerosol

Product code number: TC456-AA, TC456R-AA

Recommended use: Adhesive/Sealant

Recommended restrictions: Uses other than described above.

### Supplier's details

Company name: Forza Inc

Company address: 3211 Nebraska Ave, Suite 300  
Council Bluffs, Iowa 51501

Company phone: 402-731-9300

Company email: info@forzabuilt.com

Emergency phone number: Chemtrec 1(800)-424-9300

## Section 2: Hazards Identification

OSHA/GHS status: This material is considered hazardous by the OSHA Hazard Communications Standard (CFR 1910.1200).

Classification of the substance or mixture: Aerosol

Physical hazards: Flam. Aerosol 1 – H222, Press. Gas – H280

Health hazards: Acute Tox. 4 – H302, Acute Tox. 4 – H332, Eye Irrit. 2A – H319, Repr. 2 – H361f, STOT SE 3 – H336, STOT RE 2 – H373

Environmental hazards: Aquatic Chronic 3 – H412

### GHS label elements

#### Signal word:

**DANGER**

#### Hazard Statements:

H222: Extremely flammable aerosol

H280: Contains gas under pressure; may explode if heated

H302: Harmful if swallowed

H319: Causes serious eye irritation

H336: May cause drowsiness or dizziness

H332: Harmful if inhaled

H361f: Suspected of damaging fertility.

H373: May cause damage to organs through prolonged or repeated exposure.

H412: Harmful to aquatic life with long lasting effects.

Hazard Pictograms:



## Precautionary statements

P210	Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
<b>General:</b>	Read and follow all Safety Data Sheets before use.
<b>Prevention:</b>	Read label before use. Keep out of reach of children. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
<b>Response:</b>	Wear protective gloves/protective clothing/eye protection/face protection. If exposed or concerned: Get medical advice/attention.
<b>Storage:</b>	Store locked up.
<b>Disposal:</b>	Dispose of contents/container in accordance with approved local/federal regulations.
<b>Hazards not otherwise classified (HNOC):</b>	N/A
<b>Percentage of ingredient(s) of unknown toxicity:</b>	AT(o) 18% of the mixture consists of ingredient(s) of unknown acute oral toxicity.

## Section 3: Composition/information on ingredients

### CAS number/other identifiers

CAS number N/A

CHEMICAL NAME	CAS#	CONCENTRATION (weight %)
Hexane	110-54-3	5-10%
Methyl Acetate	79-20-9	40-50%
Propane	74-98-6	10-20%
n-Butane	106-97-8	5-10%
Isobutane	75-28-5	2-5%
*Red Dye	Proprietary	< 1%
**Other Ingredients	N/A	20-30%

\*Applies to TC456R-AA

\*\* Other Ingredients include non-hazardous components such as the resin, additives, antioxidant, and inert gases.

**Note:**

The balance of the other ingredients is not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

## Section 4: First aid measures

### Description of necessary first aid measures

**Inhalation:**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Seek medical advice.

**Skin contact:**

Wash with water and soap and rinse thoroughly. Seek medical advice if irritation or pain develops.

**Eye contact:**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation occurs, call a physician.



**Ingestion:**

Do NOT induce vomiting. If swallowed, wash mouth out with water provided the person is conscious. Follow with plenty of water. NEVER GIVE LIQUIDS TO AN UNCONCIOUS PERSON. Call a physician.

**Most important symptoms/effects, acute and delayed**

High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Indication of immediate medical attention and special treatment needed**

**Notes to physician:**

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments:**

No specific treatment.

**Protection of first-aiders:**

No action shall be taken involving any personal risk or without suitable training.

## Section 5: Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

#### Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

### Specific hazards arising from chemical

#### Hazardous thermal decomposition products:

Decomposition products may include the following materials: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Aldehydes. Halogenated hydrocarbons.

#### Specific protective actions for fire-fighters:

Pressurized container: Must not be exposed to temperatures above 50°C/120°F Containers can burst violently or explode when heated, due to excessive pressure build-up. Vapors are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

#### Special protective equipment for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. In additions, wear other appropriate protective equipment as conditions warrant (see Section 8).

## Section 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel:

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).

No action shall be taken involving any personal risk or without suitable training. Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**For emergency responders:**

If specialized clothing is required to handle the spillage, take note of any information in Section 8 on suitable or unsuitable materials. See also the information in “For non-emergency personnel”.

**Environmental precautions:**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. If spill occurs on water notify appropriate authorities.

**Methods and materials for containment and cleaning up**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).

**Small spill:**

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g., cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Large spill:**

Stop the flow of material if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

## Section 7: Handling and storage

**Precautions for safe handling**

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

**Conditions for safe storage, including any incompatibilities**

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). Recommended storage temperature: < 120 °F.

**Section 8: Exposure controls/personal protection**

Note:

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

SUBSTANCE	OSHA PEL	ACGH TLV	NIOSH IDLH
Methyl Acetate	200ppm/8hr 610mg/m <sup>3</sup>	250ppm/15min	N/A
n-Hexane	N/A	50ppm/8hr	N/A
Propane	1000ppm	Simple asphyxiant	Simple asphyxiant
Isobutane	N/A	1000ppm	N/A
n-butane	N/A	1000ppm	N/A



**Biological exposure indices:**

**Appropriate engineering controls:**

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

**Environmental exposure controls:**

If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended. Concentrations of hazardous substances should be monitored in the workplace in accordance with recognized test methods. Mode, method, type and frequency of testing and measurement of harmful factors in the working environment should meet the requirements of local/regional/national laws.

**Individual protection measures:**

**Eye/face protection:**

Wear safety glasses, safety glasses with side shields or safety goggles. Use equipment for eye protection tested and approved under NIOSH standards.

**Skin and hand protection:**

Wear chemical-resistant gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical resistant apron.

**Respiratory protection:**

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is a potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

### Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and /or safety showers are close to the workstation location.

## Section 9: Physical and chemical properties

### Appearance (physical state, color, etc.):

Physical state:	Aerosol Gas
Color:	Clear, Red
Odor:	Organic solvent
Odor threshold:	250ppm
pH:	N/A
Melting point/Freezing point:	N/A
Initial boiling point and boiling range:	-42.1 C (-43.8F)
Flash point:	-104 C (-155 F)
Evaporation rate:	6.2 (n-butyl acetate)
Flammability (solid, gas):	gas
<u>Upper/lower flammability or explosive limits:</u>	
Lower limit (%):	2.1g/100g
Upper limit (%):	9.5g/100g
Vapor pressure:	N/A
Vapor density:	N/A
Relative density: _	.93 g/ml
Solubility (ies):	Negligible in water
Partition coefficient (n-octanol/water):	N/A
Auto-ignition temperature:	N/D
Decomposition temperature:	>150 F
Viscosity:	~100cps
VOC:	113.33 g/l
	26.89 % by weight

**Reactivity:**

Not reactive under recommended storage and handling conditions.

**Chemical stability:**

Stable under recommended storage and handling conditions.

## Section 10: Stability and reactivity

**Possibility of hazardous reactions:**

Hazardous reactions not anticipated under recommended storage and handling conditions.

**Conditions to avoid:**

Avoid temperatures exceeding 150°F. Avoid contact with incompatible materials.

**Incompatible materials:**

Strong oxidizing agents, reducing agents.

**Hazardous decomposition products:**

Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire, the following substances may be formed: carbon monoxide, carbon dioxide, silicon oxides, nitrogen oxides, toxic and irritating gases.

**Hazardous polymerization:**

Under normal conditions of storage and use, hazardous polymerization will not occur.

## Section 11: Toxicological information

### Information on likely routes of exposure

**Inhalation:**

May cause drowsiness or dizziness. Vapors irritate the respiratory system.

**Ingestion:**

Irritating. May cause nausea, stomach pain and vomiting.

**Skin:**

The product is irritating to eyes and skin.

**Eyes:**

Risk of corneal clouding.

**Target organs:**

Eyes Skin Respiratory system, lungs Central nervous system Peripheral nervous system

### Symptoms related to physical, chemical and toxicological characteristics:

**Inhalation:**

Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

**Ingestion:**

Nausea, vomiting

**Skin contact:**

Redness, rash

**Eye contact:**

Irritation, redness

## Delayed and immediate effects and chronic effects from short or long-term exposure

### Short term exposure

Potential immediate effects: None known

Potential delayed effects: None known

### Long term exposure

Potential immediate effects: None known

Potential delayed effects: After long term exposure to the chemical: CNS disorders, paralysis symptoms. (It generally applies to aliphatic hydrocarbons with 6 - 18 carbon atoms that they cause pneumonia, in some cases also pulmonary edema, upon direct inhalation)

### Potential chronic health effects

General: Not available  
 After absorption. Tiredness. Narcosis. After long term exposure to the chemical: CNS disorders, paralysis symptoms. (It generally applies to aliphatic hydrocarbons with 6 - 18 carbon atoms that they cause pneumonia, in some cases also pulmonary edema, upon direct inhalation, i.e. in conditions that can occur only in very special circumstances (nebulizations, spraying, inhalation of aerosols and similar.) Absorbtion of large quantities may cause: Narcosis. Possible risk of adverse reproductive effects.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: Possible risk of adverse reproductive effects.

## Numerical measures of toxicity, such as acute toxicity estimates

See ingredient information below.

SUBSTANCE	TEST TYPE (SPECIES)	VALUE
Mixture	LD <sub>50</sub> Oral (Rat)	975.08mg/kg
	LD <sub>50</sub> Dermal (Rabbit)	2616.06mg/kg
	LC <sub>50</sub> Inhalation (Rat)	25,000ppm 18.32mg/l
	LD <sub>50</sub> Oral (Rat)	5000mg/kg



Methyl Acetate	LD <sub>50</sub> Dermal (Rabbit)	2000mg/kg
	LC <sub>50</sub> Inhalation (Rat)	49.28mg/l
n-Hexane	LD <sub>50</sub> Oral (Rat)	25,000mg/kg
	LD <sub>50</sub> Dermal (Rabbit)	2000mg/kg
	LC <sub>50</sub> Inhalation (Rat)	171.6mg/l

**Skin corrosion/irritation:**

Spray will evaporate and cool quickly and may cause frostbite or cold burns if in contact with skin.

**Serious eye damage/eye irritation:**

Spray will evaporate and cool quickly and may cause frostbite or cold burns if in contact with eyes.

**Respiratory sensitization:**

N/D

**Skin sensitization:**

N/D

**Germ cell mutagenicity:**

N/D

**Carcinogenicity:**

Not Suspected

**Reproductive toxicity:**

May damage reproductive system

**Specific target organ toxicity**
**Single exposure:**

Dizziness, nausea, tiredness

**Repeat exposure:**

CNS damage/disorders

**Aspiration hazard:**

Yes

**Hazardous chemical references in the National Toxicology Program (NTP), Report on Carcinogens, in the International Agency for Research on Cancer (IARC) Monographs, by American Conference of Governmental Industrial Hygienists (ACGIH), or by OSHA**

See information below.

COMPONENT	IARC	NTP	ACGIH	OSHA
Hexane	Not Listed	Not Listed	Listed	Listed Exposure Limit: 50 ppm (8-hr TWA)
Methyl Acetate	Not Listed	Not Listed	Not Listed	Not Listed
Propane	Not Listed	Not Listed	Not Listed	Not Listed
n-Butane	Not Listed	Not Listed	Not Listed	Not Listed
Isobutane	Not Listed	Not Listed	Not Listed	Not Listed

## Section 12: Ecological information

Ecotoxicity (aquatic and terrestrial, where available):

May cause long lasting harmful effects to aquatic life.

SUBSTANCE	TEST TYPE	SPECIES	VALUE
Methyl Acetate	LC <sub>50</sub>	Fish	250-350mg/l
	EC <sub>50</sub>	Algae	>120mg/l
	EC <sub>50</sub>	Aquatic Invertebrates	1026.7mg/l
n-Hexane	LC <sub>50</sub>	Fish	2.1-2.98mg/l
	EC <sub>50</sub>	Aquatic Invertebrates	N/D
	EC <sub>50</sub>	Algae	N/D

Persistence and Degradability:

Readily biodegradable.

Bio-accumulative potential:

N/D

Mobility in soil:

Aqueous solution has high mobility.

Other adverse effects (i.e., hazardous to the ozone layer):

None known

## Section 13: Disposal considerations

Disposal methods:

Dispose of waste materials by applicable local and national laws and regulations. Where possible, recycling is preferred to disposal and incineration. Contact proper local authorities.






Contaminated packaging:

Since emptied containers retain product residue, follow label warnings even after the container is emptied.

EPA WASTE CODE:

Universal Waste

## Section 14: Transportation information

	DOT (49 CFR)	TGD (Dangerous Goods)	MEXICO	IMDG (By sea)	IATA (By air)
UN number	1950	1950	1950	1950	1950
UN proper shipping name	Aerosol (Limited Quantity)	Aerosol (Limited Quantity)	Aerosol (Limited Quantity)	Aerosol (Limited Quantity)	Aerosol (Limited Quantity)
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
					
Packaging group	N/A	N/A	N/A	N/A	N/A
Environmental hazards (Marine pollutant)	Yes	Yes	Yes	Yes	Yes

*"Refer to CFR 49 (or authority having jurisdiction) to determine the information for shipment of the product."*

### Additional information:

#### DOT Classification:

Limited quantity:

Yes

Quantity limitation:

<1 liter aerosol

#### TGD Classification:

2.1

Explosive Limit and Limited Quantity Index:

Passenger Carrying Road or Rail Index:

#### IATA

Quantity limitation:

Air transport 1. <75kg 2. <150kg

#### Special precautions for user:

Transport within user's premises: Always transport in closed containers that are upright and secure. Ensure that the persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):

## Section 15: Regulatory information

### United States Federal Regulations:

This SDS complies with the OSHA, 29 CFR 1910.1200. The product is classified as hazardous under OSHA.

#### Toxic Substances Control Act (TSCA):

All components are listed on the TSCA inventory.

#### CERCLA RQ(lbs) Ingredients (>0.1%):

None of the components are listed.

#### SARA Superfund and Reauthorization Act of 1986 Title III Sections 302, 311, 312, and 313:

##### Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A), (>0.1%):

None of the components are listed

##### Section 311/312 (40 CFR 370), (>0.1%):

Methyl Acetate (Fire, acute chronic health hazard),  
Hexane (Fire, acute chronic health hazard).

##### Section 313 Toxic Release Inventory (40 CFR 372), (>0.1%):

Hexane 100%

#### Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs):

Hexane

#### Clean Air Act Section 602, Class I Substances:

None of the components are listed

#### Clean Air Act Section 602, Class II Substances:

None of the components are listed

#### DEA List I Chemicals (Precursor Chemicals):

None of the components are listed

#### DEA List II Chemicals (Essential Chemicals):

None of the components are listed

### State Regulations:

#### Massachusetts:

Methyl Acetate, n-Hexane

#### New York:

Methyl Acetate, n-Hexane

#### New Jersey:

Methyl Acetate, n-Hexane

#### Pennsylvania:

Methyl Acetate, n-Hexane

#### California Prop. 65:

Methyl Acetate, n-Hexane

### Inventory List:

#### Canada:

This material is listed or exempted.

#### Mexico:

This material is listed or exempted.

#### United States:

This material is listed or exempted.



## Section 16: Other information

DISCLAIMER: To the best of our knowledge, the information in this Safety Data Sheet (SDS) is believed to be accurate, as of the date issued. However, the manufacturer does not assume any liability for the accuracy of the information contained herein. Final determination of product stability is the sole responsibility of the end user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, the manufacturer cannot guarantee that these are the only hazards that exist.