Document Type	SAFETY DATA SHEET
Trade Name	TAC-734 Infusion Molding Adhesive Aerosol
SDS #	S-0092 V1
Date of Issue:	12/21/2023
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Section 1: Identification

GHS Product Identifier:

Product name: TAC-734 Infusion Molding Adhesive Aerosol - High Tack Web Spray

Other means of identification: N/A

Product code number: TAC-734G-AA, TAC-734-AA

Recommended use: Aerosol Spray Adhesive

Recommended restrictions: Other than noted above

Supplier's details

Company name: Forza Inc

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

Company phone: 402-731-9300

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:

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

Health hazards: Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H335, H336

Environmental hazards: Aquatic Chronic 2 – H411

GHS label elements

Signal word: DANGER

Hazard Statements: H222: Extremely flammable aerosol

H280: Contains gas under pressure; may explode if heated

H315: Causes skin irritation

H319: Causes serious eye irritation

H332: Harmful if inhaled

H335: May cause respiratory irritation

H336: May cause drowsiness or dizziness

H411: Toxic 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 continously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
General:	Read and follow all Safety Data Sheets before use. Read label before use. Keep out of reach of children.
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container in accordance with approved local/federal regulations.
Hazards not otherwise classified (HNOC):	None known

Section 3: Composition/information on ingredients

CAS number/other identifiers

CAS number

CHEMICAL NAME	CAS #	CONCENTRATION (weight %)
Dimethyl Ether	115-10-6	50-60%
Acetone	67-64-1	5-10%
IsoPentane	78-78-4	30-40%
*Green Dye	Proprietary	<1%
**Other Ingredients	Proprietary	10-20%

Applies to TAC-734G-AA

****** Other Ingredients include non-hazardous components such as the resin, additives, antioxidants.***

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 artifical 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	May be fatal if swallowed and enters airways. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
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	Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).
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:	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.
Specific protective actions for fire-fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Use water spray or fog for cooling exposed containers.
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 addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).
For non-emergency personnel:	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
Isopentane	1000ppm/8hr	1000ppm/8hr	120ppm/10hr
Acetone	1000ppm/8hr	500ppm/8hr 750ppm/15min	250ppm/10hr
Dimethyl Ether	Not Established	1000 ppm (1880 mg/m^3) TWA	3000 ppm

Biological exposure indices:	No exposure indices known.
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:	No exposure indices known.
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 any 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, liquid
Color:	Clear, green
Odor:	Strong organic solvent
Odor threshold:	~15ppm
pH:	N/A
Melting point/Freezing point:	N/A
Initial boiling point and boiling range:	82F-88F
Flash point:	-41C/-42F
Evaporation rate:	N/D
Upper/lower flammability or explosive limits:	
Lower limit (%):	3.4g/100g
Upper limit (%):	18g/100g
Vapor pressure:	N/D
Vapor density:	N/D
Relative density:	.86g/ml
Solubility (ies):	Negligible in water
Partition coefficient (n-octanol/water):	N/D
Auto-ignition temperature:	N/D
Decomposition temperature:	>120F
Viscosity:	~175cps
VOC:	< 73% by weight

Section 10: Stability and reactivity

Reactivity:	Not reactive under recommended storage and handling conditions.
Chemical stability:	Stable under recommended storage and handling conditions.
Possibility of hazardous reactions:	Hazardous reactions not anticipated under recommended storage and handling conditions.
Conditions to avoid:	Avoid temperatures exceeding the flash point. Avoid contact with incompatible materials.
Incompatible materials:	Strong oxidizing agents, strong acids, strong alkalis.
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:	Respiratory irritation
Ingestion:	Nausea or vomiting, may be fatal if enters airways
Skin:	Redness, irritation
Eyes:	Irritation
Target organs:	Eyes, Skin

Symptoms related to physical, chemical and toxicological characteristics:

Inhalation:	Coughing, difficulty breathing, respiratory irritation
Ingestion:	May be fatal if enters airways, severe mouth and GI tract irritation. Upset stomach, nausea, entry into lungs may cause chemical pneumonitis.
Skin contact:	May be absorbed through skin, can defatten skin. Irritating to eyes and skin.
Eye contact:	Serious eye irritation, burns can occur.

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

Short term exposure

Potential immediate effects:	Eye pain, irritation, conjunctivitis, tearing.
Potential delayed effects:	CNS depression, dizziness or intoxication.

Long term exposure

Potential immediate effects:	Irritation of mucous membranes, serious eye or tissue damage.
Potential delayed effects:	CNS depression, dizziness or intoxication.
Potential chronic health effects	Not available
General:	No known significant effects or critical hazards.
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:	No known significant effects or critical hazards.

Numerical measures of toxicity, such as acute toxicity estimates — See ingredient information below.

SUBSTANCE	TEST TYPE (SPECIES)	VALUE
Mixture	ATE Oral (Rat)	7622.22mg/kg
	ATE Dermal (Rabbit)	16768.89mg/kg
	ATE Inhalation (Rat)	244.44mg/l
Acetone	LD_{50} Oral (Rat)	5800mg/kg
	LD_{50} Dermal (Rabbit)	20000mg/kg
	LC_{50} Inhalation (Rat)	76mg/l
Isopentane	LD_{50} Oral (Rat)	100mg/kg
	LD_{50} Dermal (Rabbit)	1100mg/kg
	LC_{50} Inhalation (Rat)	1280mg/l

Skin corrosion/irritation:	May cause skin irritation
Serious eye damage/eye irritation:	May cause serious eye/tissue damage
Respiratory sensitization:	N/A
Skin sensitization:	N/A
Germ cell mutagenicity:	N/A
Carcinogenicity:	N/A
Reproductive toxicity:	N/A
Specific target organ toxicity	
Single exposure:	CNS on overexposure
Repeat exposure:	CNS
Aspiration hazard:	
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
Dimethyl Ether	Not Listed	Not Listed	TLV: 300 ppm (8-hr TWA)*	Not Listed
Acetone	Not Listed	Not Listed	TLV: 500 ppm (8-hr TWA)*	PEL: 500 ppm (8-hr TWA)*
IsoPentane	Not Listed	Not Listed	TLV: ~400 ppm (8-hr TWA)*	Not Listed

Note: Exposure limits are approximate values from current ACGIH and OSHA guidelines and are provided for occupational exposure control purpose only. None of these chemicals are classified as carcinogens by IARC or the NTP.

Section 12: Ecological information

Ecotoxicity (aquatic and terrestrial, where available): May cause long lasting harmful effects to aquatic life.

SUBSTANCE	TEST TYPE	SPECIES	VALUE
Acetone	LC_{50}	Fish	8485mg/l/96hr
	EC_{50}	Algae	430mg/l/96hr
	EC_{50}	Invertebrates	11366mg/l/48hr

Persistence and Degradability: N/D

Bio-accumulative potential: N/D

Mobility in soil: N/D

Other adverse effects (i.e., hazardous to the ozone layer): None known

Section 13: Disposal considerations

Disposal methods: Dispose of waste materials in accordance with 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 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: Limited quantity < 1L

TGD Classification: 2.1

Explosive Limit and Limited Quantity Index:

Passenger Carrying Road or Rail Index:

IATA

Quantity limitation: Air transport 1.<75kg 2. <150 kg

Special precautions for user: Transport within user's premises: Always transport in closed containers that are uptight 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%):	Acetone 5000lbs
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%):	Isopentane
Section 311/312 (40 CFR 370)(>0.1%):	Acetone; Acute health, fire, pressure hazard; Acute chronic health, fire hazard.
Section 313 Toxic Release Inventory (40 CFR 372), (> 0.1%):	Isopentane
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs):	
Clean Air Act Section 602, Class I Substances:	
Clean Air Act Section 602, Class II Substances:	
DEA List I Chemicals (Precursor Chemicals):	None Identified
DEA List II Chemicals (Essential Chemicals):	Acetone
State Regulations:	
Massachusetts:	Isopentane, Acetone
New York:	Isopentane, Acetone
New Jersey:	Isopentane, Acetone
Pennsylvania:	Isopentane, Acetone
California Prop. 65:	This material is not listed in its current form.
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.