

Trade name: M-R420 Part B

SECTION 1: Identification

Product identifier used on the label:

Product Name: Epoxy Adhesive Part B

Other means of identification:

Product Code Number: Part B

Recommended use of the chemical and restrictions on use:

Recommended use: 2-Part Epoxy Adhesive

Recommended restrictions: Uses other than those described above

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

Company Name: Forza Inc

Company Address: 3211 Nebraska Ave., Suite 300
Council Bluffs, IA 51501

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

SECTION 2: Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

Physical hazards

Flammable liquid, category 3

Health hazards

None known

Environmental hazards

Not adopted under OSHA paragraph (d) of §1910.1200

GHS Signal word: DANGER

GHS Hazard statement(s): Flammable liquid and vapor

GHS Hazard symbol(s):



GHS Precautionary statement(s):

Prevention:

- Keep away from heat/sparks/open flames/hot surfaces.— No smoking.
- Keep container tightly closed.
- Ground/Bond container and receiving equipment
- Use explosion-proof electrical/ventilating/lighting equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Wear protective gloves/protective clothing/eye protection/face protection

Response:

- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- In case of fire: Use water spray, water fog, foam, carbon dioxide or dry chemical to extinguish.

Storage:

- Store in a well-ventilated place. Keep cool.

Disposal:

- Dispose of contents/container to an approved disposal site in accordance with local/regional/national/ international regulations

Hazard(s) not otherwise classified (HNOC):

None known

Percentage of ingredient(s) of unknown acute toxicity:

Not applicable

SECTION 3: Composition/information on ingredients

Chemical name	CAS#	Concentration (weight %)
n- butyl acetate	123-86-4	< 5%

Note: The exact percentage (concentration) of composition has been withheld as a trade secret. The balance of the ingredients are 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 29CFR 1910.1200.

SECTION 4: First-aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

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:

May cause skin and eye irritation.

Indication of immediate medical attention and special treatment needed:

If any symptoms are observed, contact a physician and give them this SDS sheet. Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media: Water fog. 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 the chemical (e.g., nature of any hazardous combustion products):

Fire may produce irritating, corrosive and/or toxic gases.

Hazardous combustion products may include the following substances: Carbon monoxide, Carbon dioxide.

Special protective equipment and precautions for fire-fighters:

Use water spray or fog for cooling exposed containers. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate all non-emergency personnel from area. 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:

No action shall be taken involving any personal risk or without suitable training. Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Eliminate all sources of ignition. For large spill or leak wear self-contained breathing apparatus (SCBA) and appropriate PPE. For personal protection, see section 8 of the SDS.

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 material for containment and cleaning up:

Large Spills: 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. Following product recovery, flush area with water.

Small Spills: 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.

SECTION 7: Handling and storage

Precautions for safe handling:

When using do not eat or drink. Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Remove contaminated clothing and wash clothing before reuse.

Conditions for safe storage, including any incompatibles:

Keep only in original packaging. Keep container closed. Keep containers properly sealed when not in use. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Keep away from direct sunlight.

Store away from incompatible materials such as oxidizing substances, acids and alkalis,

SECTION 8: Exposure controls/personal protection

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	ACGIH TLV	NIOSH IDLH
n Butyl acetate	TWA: 150 ppm, 710 mg/m ³	STEL: 150 ppm TWA: 50 ppm	STEL: 200 ppm, 950 mg/m ³ TWA: 150 ppm, 710 mg/m ³ IDLH: 1700 ppm

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.

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 should be monitored hazardous substances 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, such as personal protective equipment:

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 such as (nitrile or butyl). 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: Where risk assessment shows air-purifying respirators are appropriate use a chemical respirator with organic vapor cartridge and full facepiece. Use respirators and components tested and approved under appropriate government standards such as NIOSH).

General hygiene considerations: When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.):

Physical state: Viscous liquid

Color: Clear

Odor: Mercaptan-like odor.

Odor threshold: Not available

pH: Not available

Melting point/freezing point: Not available

Initial boiling point and boiling range: Not available

Flash point: Not available

Evaporation rate: Not available

Flammability (solid, gas): Not applicable.

Upper/lower flammability or explosive limits

Lower limit (%): Not available

Upper limit (%): Not available

Vapor pressure: Not available

Vapor density: Not available

Relative density: 1.13 kg/l,

Solubility (ies): Not available.

Partition coefficient (n-octanol/water): Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

VOC Content: 569 g/L

Viscosity: 7,500 – 14000 cps

SECTION 10: Stability and reactivity

Reactivity: Product is stable under normal conditions.
Chemical stability: Stable under recommended storage and handling conditions.
Possibility of hazardous reactions: None expected.
Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources.
Incompatible materials: Strong oxidizing agents.
Hazardous decomposition Products: In case of fire - Carbon monoxide, Carbon dioxide.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation: May cause respiratory irritation
Ingestion: May be harmful if swallowed,
Skin: May cause irritation of the skin.
Eyes: May cause irritation and/or sensitization.
Target Organs: Skin, eyes.

Symptoms related to the physical, chemical, and toxicological characteristics:
 May cause skin and eye irritation.

Delayed and immediate effects and chronic effects from short or long-term exposure:
 See information above.

Numerical measures of toxicity (such as acute toxicity estimates):

Ingredient Information:

Substance	Test Type (species)	Value
n Butyl acetate	LD ₅₀ Oral (Rat)	10768 mg/kg
	LD ₅₀ Dermal (Rabbit)	> 17600 mg/kg
	LC ₅₀ Inhalation (Rat)	0.74 mg/L 4h

Skin corrosion/irritation: Causes skin irritation
Serious eye damage/eye irritation: Causes serious eye irritation
Respiratory sensitization: Does not meet the criteria for classification
Skin sensitization: Does not meet the criteria for classification
Germ cell mutagenicity: Does not meet the criteria for classification
Carcinogenicity: Does not meet the criteria for classification.
Reproductive toxicity: Does not meet the criteria for classification.

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

Does not meet the criteria for classification

**Specific target organ toxicity-
Repeat exposure:**

Does not meet the criteria for classification

Aspiration hazard:

Does not meet the criteria for classification

Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:

Component	IARC	NTP	ACGIH	OSHA
n Butyl acetate	Not listed	Not listed	Not listed	Not listed

SECTION 12: Ecological information

Ecotoxicity (aquatic and terrestrial, where available):

Substance	Test Type	Species	Value
n Butyl acetate	LC ₅₀	Fish Pimephales promelas	17 - 19 mg/L 96h
	EC ₅₀	Aquatic Invertebrates Daphnia magna	72.8 mg/L 24h
	EC ₅₀	Algae Desmodesmus subspicatus	674.7 mg/L 72h

Persistence and Degradability:

No data available

Bioaccumulative Potential:

No data available

Mobility in Soil:

No data available

Other adverse effects (such as hazardous to the ozone layer):

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.

Product

Dispose of waste materials in accordance with applicable local and national laws and regulations. Where possible, recycling is preferred to disposal or incineration. Contact the proper local authorities.

Contaminated packaging

Since emptied containers retain product residue, follow label warnings even after container is emptied. Dispose of as unused product.

SECTION 14: Transport Information

US Department of Transportation Classification (49CFR)

UN1866, RESIN SOLUTION, flammable, 3, III

IMDG (Transport by sea)

UN1866, RESIN SOLUTION, flammable, 3, III

IATA (Country variations may apply)

UN1866, RESIN SOLUTION, flammable, 3, III

Environmental hazards

Marine pollutant: No

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

No further relevant information available.

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.

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

SECTION 15: Regulatory Information

USA:

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 or are exempted.

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

n Butyl acetate - 5000 lb final RQ, 2270 kg final RQ (listed under Butyl acetate)

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%):

Flammable (gases, aerosols, liquids or solids)

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

None of the components are listed

STATE REGULATIONS:

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements, you should contact the appropriate agency in your state.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986:

None of the components are listed

Massachusetts Right to Know:

n Butyl acetate is listed on the Massachusetts Right to Know list

New Jersey Right to Know:

n Butyl acetate is listed on the New Jersey Right to Know list

Pennsylvania Right to Know:

n Butyl acetate is listed on the Pennsylvania Right to Know list

SECTION 16: Other Information

Revision Date: Sept 26, 2022

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. The manufacturer **MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE.** Given the variety of factors that can affect the use and application of this product, many of which are solely within the user's knowledge and control, the user is responsible for determining whether the usage of this product is fit for a particular purpose and suitable for the user's method of use or application. It is essential that the user, not the manufacturer, evaluates this product to determine whether it is fit for a particular purpose and suitable for the user's method of use or application.