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Trade Name	MC741
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Section 1: Identification

GHC Product Identifier:

Product name:	MC741
Other means of identification:	MC741-22, MC741-108
Product code number:	MC741
Recommended use:	Adhesive/Sealant
Recommended restrictions:	Uses other than those 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
Company email:	info@forzabuilt.com
Emergency phone number:	Chemtrec 1(800)-424-9300

Section 2: Hazards Identification

OSHA/HCS 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 – 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

GHC label elements

DANGER

H222: Extremely flammable aerosol
 H280: Contains gas under pressure; may explode if heated
 H302: Harmful if swallowed

H319: Causes serious eye irritation

H332: Harmful if inhaled

H336 May cause drowsiness or dizziness.

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 cautiously 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.

General:

Read and follow all Safety Data Sheets before use.

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.

Wear protective gloves/protective clothing/eye protection/face protection.

If exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with approved local/federal regulations.

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Response:

Storage:

Disposal:

Hazards not otherwise classified (HNOC):

Percentage of ingredient(s) of unknown toxicity:

Section 3: Composition/information on ingredients

CAS number/other identifiers

CAS number

CHEMICAL NAME	CAS #	CONCENTRATION (weight %)
Methyl Acetate	79-20-9	30-60%
Hexane	110-54-3	1-4%

Note:

The balance of 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. Remove contaminated clothing. Seek medical advice if irritation or pain develops.

Eye contact:

Remove any contact lenses and open eyelids wide apart. Only remove contact lenses if the person is conscious, coherent and they can remove them themselves. If adhesive bonding occurs, do not force eyelids apart. 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 UNCONSCIOUS 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: Carbon monoxide (CO). Carbon dioxide (CO₂). Aldehydes. Halogenated hydrocarbons.

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

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".

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.

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

Environmental precautions:

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.

Methods and materials for containment and cleaning up

Small 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.

Large spill:

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	ACGIH TLV	NIOSH IDLH
Methyl Acetate	200ppm/8hr 610mg/m ³	250ppm/15min	N/A
Hexane	N/A	50ppm/8hr	N/A

Biological exposure indices:

Appropriate engineering controls:

Environmental exposure controls:

Individual protection measures:

Eye/face protection:

Skin and hand protection:

Respiratory protection:

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 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.

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

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.

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:	Liquid
Color:	Clear, Red
Odor:	Organic solvent
Odor threshold:	250ppm
pH:	N/A
Melting point/Freezing point:	N/A
Initial boiling point and boiling range:	134.8 F (57.1 C) – 155.7 F (68.7 C)
Flash point:	14 F (-10 C)
Evaporation rate:	6.2 (n-butyl acetate)
Flammability (solid, gas):	Click or tap here to enter text.
<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:	.928
Solubility (ies):	Negligible in water
Partition coefficient (n-octanol/water):	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Viscosity:	~400 cps
VOC:	< 17 g/l

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 boiling point.
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 (CO). Carbon dioxide (CO₂). Aldehydes. Halogenated hydrocarbons.

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:

Cramping or vomiting may occur.

Skin contact:

May cause redness, irritation, and dry skin.

Eye contact:

Causes serious eye irritation. Burns can occur. A single exposure may cause the following adverse effects: Pain. Conjunctivitis, irritation, tearing.

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

Short term exposure

Potential immediate effects:

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.

Potential delayed effects:

After absorption. Tiredness. Narcosis.

Long term exposure

Potential immediate effects:

Absorption of large quantities may cause: Narcosis. Possible risk of adverse reproductive effects.

Potential delayed effects:

Prolonged or repeated exposure may cause the following adverse effects: Irritation of eyes and mucous membranes. Prolonged contact causes serious eye and tissue damage. Gastrointestinal symptoms, including upset stomach. Nausea, vomiting. Diarrhea. Damage to eyes Skin Respiratory system, lungs Central nervous system Peripheral nervous system.

Not available

Potential chronic health effects

General:

Target organ toxicity eyes, skin, respiratory system, central nervous system, peripheral nervous system.

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:

Suspected of damaging fertility.

Numerical measures of toxicity, such as acute toxicity estimates

See ingredient information below.

SUBSTANCE	TEST TYPE (SPECIES)	VALUE
Mixture	LD ₅₀ Oral (Rat)	975.08mg/kg
	LD ₅₀ Dermal (Rabbit)	2616.06mg/kg
	LC ₅₀ Inhalation (Rat)	25,000ppm18.32mg/l
Methyl Acetate	LD ₅₀ Oral (Rat)	5,000mg/kg
	LD ₅₀ Dermal (Rabbit)	2,000mg/kg

	LC ₅₀ Inhalation (Rat)	49.28mg/l
Hexane	LD ₅₀ Oral (Rat)	25,000mg/l
	LD ₅₀ Dermal (Rabbit)	2,000mg/kg
	LC ₅₀ Inhalation (Rat)	171.6mg/l

Skin corrosion/irritation:	Yes
Serious eye damage/eye irritation:	Yes
Respiratory sensitization:	Not suspected
Skin sensitization:	Not suspected
Germ cell mutagenicity:	Not suspected
Carcinogenicity:	Not suspected
Reproductive toxicity:	Suspected of damaging fertility
Specific target organ toxicity	
Single exposure:	Eyes Skin Respiratory system, lungs Central nervous system Peripheral nervous system
Repeat exposure:	Eyes Skin Respiratory system, lungs Central nervous system Peripheral nervous system
Aspiration hazard:	Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
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
n-Hexane isomers present in Hexane.	N/A	Suspected of damaging fertility	N/A	N/A

Section 12: Ecological information

Ecotoxicity (aquatic and terrestrial, where available):

SUBSTANCE	TEST TYPE	SPECIES	VALUE
Hexane	LC ₅₀	Fish	2.1-2.98mg/l
	EC ₅₀	Algae	N/A
	EC ₅₀	Algae - freshwater algae	N/A
Methyl Acetate	LC ₅₀	Fish	250-350mg/l
	EC ₅₀	Aquatic Invertebrates	1026.7mg/l
	EC ₅₀	Algae	>120mg/l

Persistence and Degradability:

Readily biodegradable.

Bio-accumulative potential:

No data available.

Mobility in soil:

Aqueous solution has high mobility.

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

No data available

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 container is emptied.

EPA WASTE CODE:

D001

Section 14: Transportation information

	DOT (49 CFR)	TGD (Dangerous Goods)	MEXICO	IMDG (By sea)	IATA (By air)
UN number	3501	3501	3501	3501	3501
UN proper shipping name	Chemical Under Pressure, Flammable, N.O.S. (hexane, methyl acetate)	Chemical Under Pressure, Flammable, N.O.S. (hexane, methyl acetate)	Chemical Under Pressure, Flammable, N.O.S. (hexane, methyl acetate)	Chemical Under Pressure, Flammable, N.O.S. (hexane, methyl acetate)	Chemical Under Pressure, Flammable, N.O.S. (hexane, methyl acetate)
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: <1L Aerosol

TGD Classification:

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:

Flammable contents under pressure

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

Section 15: Regulatory information

United States Federal Regulations:

Toxic Substances Control Act (TSCA):

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

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%):

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

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

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):

DEA List II Chemicals (Essential Chemicals):

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

All components are listed on the TSCA inventory.

n-Hexane

Methyl Acetate / Hexane

Hexane 100%

Section 16: Other information

New York:

Methyl acetate / Hexane

New Jersey:

Methyl acetate / Hexane

Pennsylvania:

Methyl acetate / Hexane

California Prop. 65:

This product does not contain any chemicals known to the State of California to cause cancer, birth or any other reproductive harm.

Inventory List:

Canada:

This material is listed or exempted.

Mexico:

This material is listed or exempted.

United States:

This material is listed or exempted.

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.

