

## SAFETY DATA SHEET

**1. PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME:** Glue Activator**PRODUCT CODE:** C GLU 004, C DIP 002**MANUFACTURER**

Cali Chem, Inc.

14271 Corporate Dr. Suite B

Garden Grove, CA 92843

**Emergency Contact:** INFOTRAC**Emergency Phone:** 800-535-5053**Customer Service:** 714-265-3740**2. HAZARDS IDENTIFICATION****GHS CLASSIFICATIONS**

Flammable liquids (Category 2), H225

Combustible dust,

Eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

Specific target organ toxicity - repeated exposure (Category 2), H373

**GHS LABEL****SIGNAL WORD:** DANGER**Hazard statement(s)**

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation.

H336 may cause drowsiness or dizziness

H373 May Cause damage to organs through prolonged or repeated exposure

**Precautionary statement(s)**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

**Prevention:****3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Vol. %	CAS
Ethyl Acetate	90-100	141-78-6
N, N-Dimethyl-p-Toluidine	0.1-2	99-97-8

**4. FIRST AID MEASURES****4.1 Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**If swallowed**

Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

no data available

**5. FIRE FIGHTING MEASURES****5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

Use water spray to cool unopened containers.

**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

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

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510): Flammable liquids

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters****Exposure limits**

Component	CAS-No.	Value	Control parameters	Basis
Ethyl acetate	141-78-6	TWA	400 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation Eye irritation		
		TWA	400 ppm 1,400 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		TWA	400 ppm 1,400 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		The value in mg/m <sup>3</sup> is approximate.		
N,N-Dimethyl-p-toluidine	99-97-8	TWA	0.5 ppm	USA. Workplace Environmental Exposure Levels (WEEL)

**Exposure controls****Appropriate engineering controls**

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**Personal protective equipment****Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with 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. Wash and dry hands.

**Body Protection**

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Personal protective equipment.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN14287) respirator cartridges as a backup to engineering controls if the respirator is the sole means of protection, use a fullface supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH or CEN

**Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** liquid

**Odor:** no data available

**Odor threshold:** no data available

**pH:** no data available

**Melting point/freezing point:** no data available

**Initial boiling point and boiling range:** 76.5°C

**Flash point:** -3°C (closed cup)

**Evaporation rate:** no data available

**Flammability:** no data available

**Upper/lower flammability or explosive limits:** no data available

**Vapor pressure:** no data available

**Vapor density:** no data available

**Relative density:** no data available

**Solubility:** no data available

**Partition coefficient** no data available

**Auto-ignition temperature:** no data available

**Decomposition temperature:** no data available

**Viscosity:** no data available

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Vapors may form explosive mixture with air.

### 10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases, Acid chlorides, Acid anhydrides

### 10.6 Hazardous decomposition products

Carbon oxides.

In the event of fire: see section 5

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity:

Substance/Ingredient	Test results	Species
Ethyl Acetate	LD50 Oral - 5,620 mg/kg LC50 Inhalation - 45,000 mg/m <sup>3</sup> LD50 Dermal - 18,000 mg/kg	rat Mouse rabbit
N,N-Dimethyl-p-toluidine	LD50 Oral - 1,650 mg/kg LC50 Inhalation - 4 h - 1.4 mg/l LD50 Dermal - 2,00 mg/kg	Rat Rat Rat

Substance/Ingredient	Skin corrosion/irritation	Eye damage/irritation	Respiration sensitization	Skin sensitization
Ethyl Acetate	May cause skin irritation and/or dermatitis	No data available	No data available	No data available
N,N-Dimethyl-p-toluidine	No data available	No data available	No data available	No data available

### Description of the delayed, immediate, or chronic effects from short and long term exposure

#### Specific target organ toxicity – single exposure

May cause drowsiness or dizziness

Inhalation, Oral - May cause drowsiness or dizziness.

#### Specific target organ toxicity – repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Chronic health effects

Substance/Ingredient	Germ Cell mutagenicity	Carcinogenicity	Reproductive toxicity
Ethyl Acetate	no data available	No known significant effects	No data available
N,N-Dimethyl-p-toluidine	DNA damage	No known significant effects	No data available

### Aspiration hazard

no data available

### Additional Information

Kidney - Irregularities - Based on Human Evidence

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis.

Onset may be delayed 2 to 4 hours or longer. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. ECOLOGICAL INFORMATION

### Toxicity

Substance/Ingredient	Test	Species	Exposure
Ethyl Acetate	LC50 - 350.00 - 600.00 mg/l	Oncorhynchus mykiss	96 h
	EC50 - 2300-3090 mg/l	Daphnia magna	24 h
		Daphnia magna	48 h
	LC50 - 560 mg/l	Pimephales promelas	96 h
	LC50 - 220-250 mg/l	Algae	24h
	EC50 - 4300 mg/l	Selenastrum	72h
EC50 - 1800 - 3200 mg/l			
N,N-Dimethyl-p-toluidine	LC50 - 46-52	Pimephalas	96 h

### Persistence and degradability

Substance/Ingredient	Persistence/degradable
Ethyl Acetate	79% readily biodegradable
N,N-Dimethyl-p-toluidine	n/a

### Bioaccumulative potential

Ethyl Acetate – BCF: 30

### Mobility in soil

n/a

### PBT and vPVB assessment

n/a

### Other adverse effects

n/a

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Ethyl Acetate

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** 1173

**PACKING GROUP:** II

**REPORTABLE QUANTITY (RQ) UNDER CERCLA:**

**LABEL:** Flammable

## 15. REGULATORY INFORMATION

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

### Massachusetts Right To Know Components

Ethyl acetate

**Pennsylvania Right To Know Components**

Ethyl acetate, N,N-Dimethyl-p-toluidine

**New Jersey Right To Know Components**

Ethyl acetate, N,N-Dimethyl-p-toluidine

**California Prop. 65 Components**

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

**16. OTHER INFORMATION**

**MANUFACTURER DISCLAIMER:** The information presented herein is believed to be accurate. Recipients are advised to confirm in advance that the information is current, applicable and suitable to their circumstances. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

**HMIS Rating**

Health hazard: 2

Chronic Health Hazard:\*

Flammability: 3

Physical Hazard 0

**NFPA Rating**

Health hazard: 2

Fire Hazard: 3

Reactivity Hazard: 0