# SAFETY DATA SHEET

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## SECTION 1. IDENTIFICATION

Brand: Cre8tion

Trade Name: Signature Monomer Liquid

Product Number:

Signature Monomer Liquid 4oz: 01775

Signature Monomer Liquid 8oz: 01715

Signature Monomer Liquid 16oz: 01704

Signature Monomer Liquid 32oz: 01450

Signature Monomer Liquid 1gal: 01449

Address: 11561 Westminster Ave, Garden Grove, CA 92843

## SECTION 2. HAZARDS IDENTIFICATION

**GHS CLASSIFICATIONS**
Flammable liquids (Category 2), H225
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 3), H311
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Skin sensitization (Category 1), H317
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Specific target organ toxicity - repeated exposure (Category 2), H373
Acute aquatic toxicity (Category 3), H402
Chronic aquatic toxicity (Category 3), H412

**GHS LABEL**



**SIGNAL WORD:** DANGER

**Hazard statement(s)**
H225 Highly flammable liquid and vapour
H227 Combustible liquid
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaledH315 Causes skin irritation.
H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H340 May cause genetic defects.
H350 May cause cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statement(s)**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
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.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
P314 Get medical advice/ attention if you feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P321 Specific treatment (see supplemental first aid instructions on this label).
P330 Rinse mouth.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P361 Remove/Take off immediately all contaminated clothing.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
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**

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | Vol.% | CAS |
|---|---|---|
| Ethyl methacrylate | 60-95 | 97-63-2 |
| Hydroxypropyl methacrylate | 5-20 | 27813-02-1 |
| Tetraethylene glycol dimethacrylate | 5-10 | 109-17-1 |
| N, N-Dimethyl-p-toluidine | 0.2-3 | 99-97-8 |

## SECTION 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 swallowe**

Never give anything by mouth to an unconscious person. 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

## SECTION 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

## SECTION 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)

## SECTION 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.

Recommended storage temperature: 2 - 8 °C

Light sensitive. Heat sensitive.

**7.3 Specific end use(s)**

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

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters**

**Exposure limits**

| Component | CAS-No. | Value | Control parameters | Basis |
|---|---|---|---|---|
| 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-prof 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 full0face 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

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** liquid

**Odor:** ester-like

**Odor threshold:** no data available

**pH:** no data available

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

**Solubility:** no data available

**Initial boiling point and boiling range:** 118-119oC

**Flash point:** 21oC (closed cup)

**Evaporation rate:** no data available

**Flammability:** no data available

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

**Vapor pressure:** 20 hPa (15mHg) @ 20 oC

**Vapor density:** 3.94-5.42

**Relative density:** no data available

**Solubility:** no data available

**Partition coefficient:** n-octanol/water: no data available

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

**Decomposition temperature:** no data available

**Viscosity:** no data available

**Self-Accelerating Polymerizing Temperature (SAPT):** 195oC

## SECTION 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

## SECTION 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:**

| Substance/Ingredient | Test results | Species | Time |
|---|---|---|---|
| Ethyl methacrylate | LD50 Oral 13,424 mg/kg<br>LC50 Inhalation 8300 ppm | rat rat | 4 h |
| N,N-Dimethyl-p-toluidine | LD50 intraperitoneal 212 mg/kg | Mouse | |

| Substance/Ingredient | Skin corrosion/irritation | Eye damage/irritation | Respiration sensitization | Skin sensitization |
|---|---|---|---|---|
| Ethyl methacrylate | Not available | Not available | Not available | Not available |
| N,N-Dimethyl-p-toluidine | Not available | Not available | Not available | Not available |

**Description of the delayed, immediate, or chronic effects from short and long term exposureSpecific target organ toxicity –**

**single exposure**

May cause respiratory irritation.

**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 methacrylate | Negative(fibroblast hamster) | No known significant effects | Not available |
| N,N-Dimethyl-p-toluidine | Rat and mouse DNA damage | No known significant effects | Not available |

**Aspiration hazard**

No data available

## SECTION 12. ECOLOGICAL INFORMATION

**Toxicity**

| Substance/Ingredient | Test | Species | Exposure |
|---|---|---|---|
| Ethyl methacrylate | LC50 100mg/l<br>EC50 66 mg/l<br>EC50 110mg/l | Salmo gairdneri<br>Daphnia | 96 h<br>48 h<br>72 h |
| N,N-Dimethyl-p-toluidine | LC50 46-52 mg/l | Pimephales promelas | 96 h |

**Persistence and degradability**

| Substance/Ingredient | Persistence/degradable |
|---|---|
| Ethyl methacrylate | n/a |
| N,N-Dimethyl-p-toluidine | n/a |

**Bioaccumulative potential**
n/a
**Mobility in soil**
n/a
**PBT and vPVB assessment**
n/a
**Other adverse effects**
N,N-Dimethyl-p-toluidine deemed harmful to aquatic life

## SECTION 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.

## SECTION 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Ethyl methacrylate, Stabilized
**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** 2277

**PACKING GROUP:** II

**REPORTABLE QUANTITY (RQ) UNDER CERCLA:** 1000 ob.

**LABEL:** Flammable

## SECTION 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 methacrylate

**Pennsylvania Right To Know Components** Ethyl methacrylate, N,N-Dimethyl-p-toluidine **New Jersey Right To Know Components** Ethyl methacrylate, 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

## SECTION 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.

**Please confirm with state and/or country authorities to make sure that this product is legal to sell or use. Cali Chem will not be liable or responsible for any products that are not legal to sell or use in your state and/or country.**

**HMIS Rating**

Health hazard: 3 Chronic Health Hazard:* Flammability: 3

Physical Hazard 0 **NFPA Rating** Health hazard: 3

Fire Hazard: 3

Reactivity Hazard: 0