☑GHS Compliant

**Safety Data Sheet**

**SDS No. DAM**

## Section 1 - Identification

**1.1 Product Identifier:** Monomer

**1.2 General Use:** Manufacture of novelty prothesis

**1.3 Manufacturer:** The Monster Makers, Inc.,
13597 West Parkway Rd., Cleveland, OH 44135
Phone: (216) 671-8700
sales@monstermakers.com

**1.4 Emergency Contact:** Chem-Tel
Domestic: 800-255-3924 International 813-248-0585

## Section 2 - Hazards

**2.1 Classification of the substance or mixture**

Highly Flammable Liquid and Vapor Category 2
Acute toxicity, Oral, Category 4 (OSAH/GHS) Category 5 (UN Purple Book GHS)
Acute toxicity, Dermal, Category 4 (OSAH/GHS) Category 5 (UN Purple Book GHS)
Eye Irritation (Category 2B)
Acute toxicity, inhalation, Category 4 (OSAH/GHS) Category 5 (UN Purple Book GHS)

**2.2 GHS Label elements, including precautionary statements**

**Pictograms:**

**Signal Word:** Danger

| | |
|---|---|
| H225 | Highly flammable liquid and vapor. |
| H303 | May be harmful if swallowed. |
| H315 | May cause skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye damage. |
| H335 | May cause respiratory irritation. |

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| P202 | Do not handle until all safety precautions have been read and understood. |
| P234 | Keep only in original container. |
| P235+P410 | Keep cool. Protect from sunlight. |
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray. |
| P264 | Wash thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/ face protection. |
| P301+P330 | IF SWALLOWED: Rinse mouth. |
| P301+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P304+340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |

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| P305+351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313 | If exposed or concerned: Get medical advice attention. |
| P312 | Call a poison center or doctor if you feel unwell. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention |
| P337+P313 | If eye irritation occurs: Get medical advice/attention |

## Section 3 - Composition / Information on Ingredients

**3.1 Substances**

| Name | CAS# | % by Weight |
|---|---|---|
| Methyl Methacrylate (MMA) | 80-62-6 | >95% |
| Dimethyl p Toluidine | 99-97-8 | <1% |
| Hydroquinone | 123-31-9 | <.001% |

## Section 4 - First Aid Measures

**4.1 Description of first aid measures**

**Inhalation:** Remove to fresh air. Get medical attention if discomfort persists.

**Eye Contact:** Flush with plenty of water for at least 15 minutes. Seek medical advice.

**Skin Contact:** Immediately wash with water and soap. Rinse thoroughly.
If irritation occurs, consult a doctor

**Ingestion:** If swallowed, DO NOT induce vomiting, immediately give to glasses of water, or activated charcoal slurry. Seek immediate medical advice. Never give anything by mouth to an unconscious person.

**4.1 After first aid, get appropriate in-plant, paramedic, or community medical support.**

## Section 5 - Fire-Fighting Measures

**5.1 Extinguishing Media:** CO2, extinguishing powder, dry chemical, water fog (by trained personnel) in flooding amounts.

**5.2 Advice for firefighters:** Wear respirator-MSHA/NIOSH approved or equivalent, self-contained breathing apparatus. Use cold water spray to cool containers. Heat can cause containers to rupture explosively due to polymerization. Vapors are heavier than air and may travel to the ignition source.

## Section 6 - Accidental Release Measures

**6.1 Small Spill:**

Dilute with water an mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

**6.2 Large Spill:**

Evacuate area and remove sources of ignition. Prevent skin contact and breathing vapor. Confine and remove with inert absorbent. Ventilate area. Prevent entry into sewers, basements or confined areas.

## Section 7 - Handling and Storage

**7.1 Precautions for safe handling:**

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapors/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as metals, acids, alkalis.

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

Keep in a well ventilated area. Store under 80F (27C). Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame)

## Section 8 – Exposure Controls / Personal Protection

**8.1 Control Parameters:**

**Exposure controls:** Provide good local exhaust at processing equipment controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Respiratory Protections:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.

**Hand Protection:** Wear impervious gloves with consideration to the product and the preparation.

**Eye Protection:** Safety goggles or chemical splash goggles.

**Other Protective Clothing/Equipment:** Protective work clothing.

**Environmental Exposure:**

| **Components with limit values that require monitoring at the workplace:** | |
|---|---|
| **80-62-6 Methyl Methacrylate** | |
| PEL ()<br>REL ()<br>TLV () | 410 mg/m3, 100ppm<br>410 mg/m3, 100ppm<br>Short-term value: 410 mg/m3, 100ppm<br>Long-term value: 205 mg/m3, 50ppm |
| **123-31-9 Hydroquinone** | |
| PEL ()<br>REL ()<br>TLV () | 2 mg/m3 TWA<br>2 mg/m3 Ceiling (15 Minutes)<br>2 mg/m3 TWA |

**Additional Information:** The lists that wee valid during the creation were used as basis.

## Section 9 - Physical and Chemical Properties

**9.1 Information on basic physical and chemical properties:**

| | |
|---|---|
| **Appearance:** Liquid | **Vapor Pressure:** N/A |
| **Odor/Threshold:** Acrid fruity odor | **Vapor Density (Air=1):** 3.5 (Air=1) |
| **pH:** N/A | **Specific Gravity (H2O=1, at 4C):** N/A |
| **Melting Point/Freezing Point:** N/A | **Water Solubility:** 1.6g/100g |
| **Low/High Boiling Point:** 101C @ 760mm Hg (213.8F) | **Partition Coefficient:** N/A |
| | **Auto-Ignition Temperature:** 790F (421C) |
| **Flash point:** 55F (Open cup)(12.78C) | **Decomposition Temperature:** N/A |

| | |
|---|---|
| **Evaporation Rate:** 3 (Butyl Acetate=1) | **Viscosity:** N/A |
| **Flammability:** 2.1% /12.5% | **% Volatile:** N/A |

## Section 10 - Stability and Reactivity

**10.1 Reactivity:** Stable.

**10.2 Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**10.3 Possibility of hazardous reactions:** Hazardous Polymerization may occur

**10.4 Conditions to avoid:** Heat and ignition sources. Contamination. Excessive heat (temperatures above 40C), contamination, peroxides, amides, and other oxidizing or reducing agents.

**10.5 Incompatible Materials:** Reducing and oxidizing agents. Material has strong solvent properties and can soften paint or rubber.

**10.6 Hazardous Decomposition Products:** Can yield CO, Co2, smoke

## Section 11 - Toxicological Information

**11.1 Information on Toxicological Effects:**

**Routes of entry:** Eye contact. Inhalation. Ingestion.

**Toxicity to Animals:** WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 7872 mg/kg [Rat].
Acute toxicity of the vapor (LC50): 5303.3 ppm 4 hours [Rat].

**Chronic Effects on Humans:** The substance is toxic to lungs, mucous membranes.

**Other Toxic Effects on Humans:** Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

**Special Remarks on Toxicity to Animals:** N/A

**Special Remarks on Chronic Effects on Humans:** Embryotoxic and/or foetotoxic in animal

**Special Remarks on other Toxic Effects on Humans:** N/A

## Section 12 - Ecological Information

**12.1 General Notes:** Avoid transfer into the environment.

## 13 - Disposal Considerations

**13.1 Waste Treatment Methods:** Avoid transfer into the environment. Do not allow products to reach sewage system. Disposal must be completed according to official regulations.

## Section 14 - Transport Information

**14.1 UN Number:** 1247

**14.2 UN Proper Shipping Name:** Methyl Methacrylate Monomer, Inhibited

**14.3 Transport Hazard Class(es):** 3

**14.4 Packing Group:** 11 / **Label Statement:** Flammable liquid

## Section 15 - Regulatory Information

**15.1 Federal and State Regulations:**

SARA Title III, Section 302 (TPQ): Hydroquinone – TPQ (lbs):1000

SARA Title III, Section 302 (RQ):

Methyl Methacrylate – RQ (lbs): 1000; Hydroquinone – RQ (lbs) : 500

SARA Title III, Section 311-312: Methyl Methacrylate, Hydroquinone

SARA Title III, Section 313: Methyl Methacrylate, Hydroquinone

TSCA Section 8(b): This product contains chemicals that are on the TSCA List

Massachusetts RTK: Methyl Methacrylate, Hydroquinone

New Jersey RTK: Methyl Methacrylate, Hydroquinone

Pennsylvania RTK: Methyl Methacrylate, Hydroquinone

Non-hazardous ingredients present at a concentration of 3% or more required to be listed by Pennsylvania: NONE

California RTK: Methyl Methacrylate, Hydroquinone

Substances known to the state of California to cause cancer: NONE

Substances known to the state of California to cause birth defects or other reproductive harm: NONE

Florida RTK: Methyl Methacrylate, Hydroquinone

Minnesota RTK: Methyl Methacrylate, Hydroquinone

**WHMIS (Canada)**

Class B-2 Flammable liquid

Class D-2B Material causing other toxic effects

**EINECS (Europe)**

Hazard Symbols

Xi- Irritant

F- Flammable

Risk Phrases

R11- Highly Flammable

R36/37/38- Irritating to eyes, respiratory system and skin

R43- May cause sensitization by skin contact

Safety Phrases

S2- Keep out of the reach of children

S24- Avoid contact with skin

S37- Wear suitable gloves

S46- If swallowed, seek medical advice immediately and show this container or label

## Section 16 - Other Information

| HMIS | |
|---|---|
| H | 2 |
| F | 3 |
| R | 2 |
| PP | H |


**SDS Version:** 2
**Date Prepared:** 6/26/18

**Glossary:** ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CASChemical Abstract Service; Chemtrec-Chemical Transportation Emergency Center (US); CHIPChemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRAEmergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association; IMDG-International Maritime Dangerous Goods Code; LC-Lethal Concentration; LD-Lethal Dose; LEL-Lower Explosion Level; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limit; OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL-Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQTexas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; UEL-Upper Explosion Level; US DOT-US Department of Transportation; WHMIS-Workplace Hazardous Materials Information System.

**Disclaimer:** The information contained in this Safety Data Sheet (SDS) is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of The Monster Makers, Inc. regardless of the legal theory advanced, it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use. This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication

Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH). Classifications of the chemical in accordance with 29 CFR 1910.1200, signal word, hazard and precautionary statement(s), symbol(s) and other information are based on listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS and EC No 1907/2006 and are considered trade secrets under US Federal Law (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union Directives.