

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** Castin Craft Mold Builder  
**Revision date** 07-22-2014  
**Version #** 01  
**CAS #** Mixture  
**Product code** 00779, 00787, 00795, 01690, 01700 MICHAELS SKU: 558726  
**MSDS Number** 7211760  
**Product use** Latex solution for brush-on rubber mold making  
**Manufacturer/Supplier** Environmental Technology, Inc.  
300 S. Bay Depot Road  
Fields Landing  
CA 95537  
eti@eti-usa.com  
Contact Person: Technical Director  
**Telephone number** 707-443-9323  
**Emergency** CHEMTREC 800-424-9300

## 2. Hazards Identification

**Physical state** Liquid.  
**Appearance** Creamy liquid.  
**Emergency overview** CAUTION  
May cause eye, skin and respiratory tract irritation.  
**OSHA regulatory status** This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).  
**Potential health effects**  
**Routes of exposure** Inhalation. Eye contact. Skin contact.  
**Eyes** Exposed individuals may experience eye tearing, redness, and discomfort.  
**Skin** Contact may cause irritation and redness.  
**Inhalation** Vapors may irritate throat and respiratory system and cause coughing.  
**Ingestion** May cause discomfort if swallowed.  
**Target organs** Eyes. Skin. Respiratory system.  
**Chronic effects** No other specific acute or chronic health impact noted.  
**Signs and symptoms** Irritation of eyes and mucous membranes. Skin irritation. Symptoms may include coughing, difficulty breathing and shortness of breath.  
**Potential environmental effects** This material is not expected to be harmful to aquatic life.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Ammonia	7664-41-7	<1

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First Aid Measures

### First aid procedures

**Eye contact** Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if irritation persists after washing.  
**Skin contact** Wash contact areas with soap and water. Get medical attention if irritation develops or persists.  
**Inhalation** Move to fresh air. Get medical attention if any discomfort occurs. Be aware that symptoms of lung edema (shortness of breath) may develop up to 24 hours after exposure.

**Ingestion**

Rinse mouth thoroughly with water and give large amounts of milk or water, if person is conscious. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues.

**Notes to physician**

Treat symptomatically.

**General advice**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**5. Fire Fighting Measures****Flammable properties**

The product is not flammable. Will burn if involved in a fire.

**Extinguishing media****Suitable extinguishing media**

Water spray, dry powder or carbon dioxide.

**Unsuitable extinguishing media**

No restrictions known.

**Protection of firefighters****Specific hazards arising from the chemical**

No unusual fire or explosion hazards noted.

**Fire fighting equipment/instructions**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

**Specific methods**

Use standard firefighting procedures and consider the hazards of other involved materials.

**Hazardous combustion products**

Combustion and decomposition products may be toxic. CO, CO<sub>2</sub>, hydrocarbons, and dense black smoke.

**6. Accidental Release Measures****Personal precautions**

Avoid inhalation and contact with skin and eyes. Wear appropriate personal protective equipment (See Section 8).

**Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

**Methods for containment**

None necessary.

**Methods for cleaning up**

Absorb spillage with suitable absorbent material. For waste disposal, see Section 13 of the MSDS.

Never return spills to original containers for re-use.

**Other information**

Clean up in accordance with all applicable regulations.

**7. Handling and Storage****Handling**

Handle and open container with care. Avoid inhalation of vapors and contact with skin and eyes. Use appropriate Personal Protective Equipment. Observe good industrial hygiene practices.

**Storage**

Store in original container. Protect from freezing. Avoid extreme of temperatures.

**8. Exposure Controls / Personal Protection****Occupational exposure limits****US. ACGIH Threshold Limit Values****Components****Type****Value**

Ammonia (7664-41-7)

STEL

35 ppm

TWA

25 ppm

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)****Components****Type****Value**

Ammonia (7664-41-7)

PEL

35 mg/m<sup>3</sup>

50 ppm

**Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)****Components****Type****Value**

Ammonia (7664-41-7)

STEL

24 mg/m<sup>3</sup>

35 ppm

TWA

17 mg/m<sup>3</sup>

25 ppm

**Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Ammonia (7664-41-7)	STEL	35 ppm
	TWA	25 ppm

**Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Ammonia (7664-41-7)	STEL	24 mg/m3
		35 ppm
	TWA	17 mg/m3
		25 ppm

**Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Ammonia (7664-41-7)	STEL	24 mg/m3
		35 ppm
	TWA	17 mg/m3
		25 ppm

**Mexico. Occupational Exposure Limit Values**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Ammonia (7664-41-7)	STEL	27 mg/m3
		35 ppm
	TWA	18 mg/m3
		25 ppm

**Engineering controls** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Provide easy access to water supply and eye wash facilities.

**Personal protective equipment**

**Eye / face protection** Wear approved safety goggles.

**Skin protection** Wear protective gloves. Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Respiratory protection** Wear appropriate NIOSH respirator when ventilation is inadequate and occupational exposure limits are exceeded.

**General hygiene considerations** Wash hands after handling.

## 9. Physical & Chemical Properties

<b>Appearance</b>	Creamy liquid.
<b>Color</b>	Cream
<b>Odor</b>	Slight ammonia.
<b>Odor threshold</b>	Not available.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>pH</b>	Not available.
<b>Melting point</b>	32 °F (0 °C)
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	212 °F (100 °C)
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	0.94 ( Water = 1)
<b>Solubility (water)</b>	Miscible.

<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	This product is stable under expected conditions of use.
<b>Conditions to avoid</b>	Freezing. Excessive heat.
<b>Incompatible materials</b>	Solvents. Acids. Metal salts.
<b>Hazardous decomposition products</b>	Thermal decomposition or combustion may liberate toxic gases or fumes.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

## 11. Toxicological Information

<b>Acute effects</b>	May cause discomfort if swallowed.
<b>Local effects</b>	May cause eye, skin and respiratory tract irritation.
<b>Sensitization</b>	Not a skin sensitizer.
<b>Chronic effects</b>	No other specific acute or chronic health impact noted.
<b>Carcinogenicity</b>	Not classified.
<b>Epidemiology</b>	Not available.
<b>Mutagenicity</b>	Not classified.
<b>Neurological effects</b>	Not available.
<b>Reproductive effects</b>	Not classified.
<b>Teratogenicity</b>	Not available.
<b>Symptoms and target organs</b>	Irritation of eyes and mucous membranes. Skin irritation. Symptoms may include coughing, difficulty breathing and shortness of breath.
<b>Further information</b>	Not available.

## 12. Ecological Information

### Ecotoxicological data

Product	Test Results
Castin Craft Mold Builder (Mixture)	LC50 Fish: 1992.3333 mg/l 96 hours estimated
Components	Test Results
Ammonia (7664-41-7)	LC50 Carp ( <i>Hypophthalmichthys nobilis</i> ): 0.3 mg/l 96 hours
<b>Ecotoxicity</b>	Not expected to be harmful to aquatic organisms.
<b>Environmental effects</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
<b>Persistence and degradability</b>	No data available.
<b>Bioaccumulation / Accumulation</b>	No data available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Mobility in environmental media</b>	The product is soluble in water.

## 13. Disposal Considerations

<b>Waste codes</b>	Not regulated.
<b>Disposal instructions</b>	Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	No special precautions.

## 14. Transport Information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

### TDG

Not regulated as dangerous goods.

## 15. Regulatory Information

### US federal regulations

This product is hazardous according to OSHA 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

#### TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D)

Not regulated.

#### US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Spill: Reportable quantity

Ammonia (CAS 7664-41-7) 100 LBS

#### US EPCRA (SARA Title III) Section 302 - Extremely Hazardous Substance: Threshold Planning Quantity

Ammonia (CAS 7664-41-7) 500 LBS

#### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Ammonia (CAS 7664-41-7) 1.0 %

#### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Ammonia (CAS 7664-41-7) Listed.

### CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

Ammonia: 100

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

#### Section 302 extremely hazardous substance (40 CFR 355, Appendix A)

No

#### Section 311/312 (40 CFR 370)

No

### Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)

Not controlled

### Canadian regulations

This product is not classified according to WHMIS classification criteria.

### WHMIS status

Controlled

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US - California Hazardous Substances (Director's): Listed substance**

Ammonia (CAS 7664-41-7) Listed.

**US - Massachusetts RTK - Substance: Listed substance**

Ammonia (CAS 7664-41-7) Listed.

**US - New Jersey Community RTK (EHS Survey): Reportable threshold**

Ammonia (CAS 7664-41-7) 500 LBS

**US - New Jersey RTK - Substances: Listed substance**

Ammonia (CAS 7664-41-7) Listed.

**US - Pennsylvania RTK - Hazardous Substances: Listed substance**

Ammonia (CAS 7664-41-7) Listed.

**16. Other Information**

**Further information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**  
 Health: 1  
 Flammability: 0  
 Physical hazard: 0

**NFPA ratings**  
 Health: 1  
 Flammability: 0  
 Instability: 0

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently available.

**Issue date** 07-22-2014