

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Castin Craft Mold Builder

**Other means of identification**

**SDS number** 7211760

**Product code** 00779, 00787, 00795, 01690, 01700, MIICHAELS SKU: 558726

**Recommended use** Mold Making

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufacturer**

**Company name** Environmental Technology, Inc.

**Address** 300 S. Bay Depot Road  
Fields Landing  
CA 95537, USA.

**Telephone number** 001 707-443-9323

**E-mail** mail@eti-usa.com

**Contact person** Technical Director

**Emergency phone number** 800-424-9300 (CHEMTREC)

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Serious eye damage/eye irritation Category 2A

**Environmental hazards** Not classified.

\*Hazards not stated here are "Not classified", "Not applicable" or "Classification not possible".

### Label elements



**Signal word** Warning

**Hazard statement** Causes serious eye irritation.

**Precautionary statements**

**Prevention** Wear eye protection/face protection. Wash thoroughly after handling.

**Response** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

**Other hazards** None known.

**Supplemental information** 88.5 % of the mixture consists of component(s) of unknown acute oral toxicity. 92.5 % of the mixture consists of component(s) of unknown acute dermal toxicity. 90.9 % of the mixture consists of component(s) of unknown acute inhalation toxicity. 94.9 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 94.9 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

### Mixtures

| Chemical name   | CAS number | %     |
|-----------------|------------|-------|
| Sodium silicate | 1344-09-8  | < 10% |

|            |           |      |
|------------|-----------|------|
| Ammonia    | 1336-21-6 | < 1% |
| Zinc Oxide | 1314-13-2 | < 1% |

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

**Composition comments** The full text for all R-phrases is displayed in section 16 of the SDS. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | Move to fresh air. Get medical attention if any discomfort occurs. Call a physician if symptoms develop or persist.  |
| <b>Skin contact</b>   | Wash off with soap and water. Get medical attention if irritation develops or persists. Get medical attention if irritation develops and persists.   |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| <b>Ingestion</b>  | Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.   |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Symptoms may include stinging, tearing, redness, swelling, and blurred vision.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically.   |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.   |

#### 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ). Water spray, dry powder or carbon dioxide.   |
| <b>Unsuitable extinguishing media</b>                                | Water. Do not use water jet as an extinguisher, as this will spread the fire.   |
| <b>Specific hazards arising from the chemical</b>                    | By heating and fire, irritating vapours/gases may be formed. Dried product can burn.  |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Cool containers exposed to flames with water until well after the fire is out.  |
| <b>Fire fighting equipment/instructions</b>                          | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.  |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted. Liquid will not burn. Dried material will burn with black smoke. In case of fire, toxic and irritating gases may be formed.   |

#### 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | For personal protection, see section 8 of the SDS. Keep unnecessary personnel away. Keep out of low areas. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Avoid inhalation and contact with skin and eyes. Wear appropriate personal protective equipment (See Section 8).   |
| <b>Methods and materials for containment and cleaning up</b>               | Collect and dispose of spillage as indicated in section 13 of the SDS. Extinguish all flames in the vicinity. This product is miscible in water. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. |
| <b>Environmental precautions</b>   | Never return spills to original containers for re-use.<br>Avoid discharge into drains, water courses or onto the ground.   |

#### 7. Handling and storage

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Handle and open container with care. Observe good industrial hygiene practices. Avoid inhalation of vapours and contact with skin and eyes. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in original tightly closed container. Store away from incompatible materials (see section 10 of the SDS). 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                | Form                 |
|----------------------------|------|----------------------|----------------------|
| Ammonia (CAS 1336-21-6)    | STEL | 35 ppm               |                      |
|                            | TWA  | 25 ppm               |                      |
| Zinc Oxide (CAS 1314-13-2) | STEL | 10 mg/m <sup>3</sup> | Respirable fraction. |
|                            | TWA  | 2 mg/m <sup>3</sup>  | Respirable fraction. |

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

| Components                 | Type | Value                | Form        |
|----------------------------|------|----------------------|-------------|
| Zinc Oxide (CAS 1314-13-2) | STEL | 10 mg/m <sup>3</sup> | Respirable. |
|                            | TWA  | 2 mg/m <sup>3</sup>  | Respirable. |

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

| Components                 | Type | Value                | Form        |
|----------------------------|------|----------------------|-------------|
| Ammonia (CAS 1336-21-6)    | STEL | 35 ppm               |             |
|                            | TWA  | 25 ppm               |             |
| Zinc Oxide (CAS 1314-13-2) | STEL | 10 mg/m <sup>3</sup> | Respirable. |
|                            | TWA  | 2 mg/m <sup>3</sup>  | Respirable. |

#### Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

| Components                 | Type | Value                | Form                 |
|----------------------------|------|----------------------|----------------------|
| Ammonia (CAS 1336-21-6)    | STEL | 35 ppm               |                      |
|                            | TWA  | 25 ppm               |                      |
| Zinc Oxide (CAS 1314-13-2) | STEL | 10 mg/m <sup>3</sup> | Respirable fraction. |
|                            | TWA  | 2 mg/m <sup>3</sup>  | Respirable fraction. |

#### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

| Components                 | Type | Value                | Form                 |
|----------------------------|------|----------------------|----------------------|
| Ammonia (CAS 1336-21-6)    | STEL | 35 ppm               |                      |
|                            | TWA  | 25 ppm               |                      |
| Zinc Oxide (CAS 1314-13-2) | STEL | 10 mg/m <sup>3</sup> | Respirable fraction. |
|                            | TWA  | 2 mg/m <sup>3</sup>  | Respirable fraction. |

#### Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

| Components                 | Type | Value                | Form        |
|----------------------------|------|----------------------|-------------|
| Zinc Oxide (CAS 1314-13-2) | STEL | 10 mg/m <sup>3</sup> | Fume.       |
|                            | TWA  | 5 mg/m <sup>3</sup>  | Fume.       |
|                            |      | 10 mg/m <sup>3</sup> | Total dust. |

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. 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. Provide easy access to water supply and eye wash facilities.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves. Nitrile gloves are recommended.

##### Other

Wear suitable protective clothing. Wear protective gloves. Wear appropriate clothing to prevent repeated or prolonged skin contact.

|                                       |   |
|---------------------------------------|---|
| <b>Respiratory protection</b>         | In case of insufficient ventilation, wear suitable respiratory equipment. No respirator is required under normal conditions of use. Under conditions of frequent or heavy exposure, protection may be needed.         |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.   |
| <b>General hygiene considerations</b> | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

## 9. Physical and chemical properties

|   |                 |
|---|-----------------|
| <b>Appearance</b>                                   | Creamy liquid.  |
| <b>Physical state</b>                               | Liquid.         |
| <b>Form</b>   | Liquid.         |
| <b>Colour</b>                                       | Off-white       |
| <b>Odour</b>  | Slight ammonia. |
| <b>Odour threshold</b>                              | Not available.  |
| <b>pH</b>   | 11              |
| <b>Melting point/freezing point</b>                 | Not available.  |
| <b>Initial boiling point and boiling range</b>      | 100 °C (212 °F) |
| <b>Flash point</b>                                  | Not available.  |
| <b>Evaporation rate</b>                             | Not available.  |
| <b>Flammability (solid, gas)</b>                    | Not applicable. |
| <b>Upper/lower flammability or explosive limits</b> |                 |
| <b>Flammability limit - lower (%)</b>               | Not available.  |
| <b>Flammability limit - upper (%)</b>               | Not available.  |
| <b>Explosive limit - lower (%)</b>                  | Not available.  |
| <b>Explosive limit – upper (%)</b>                  | Not available.  |
| <b>Vapour pressure</b>                              | Not available.  |
| <b>Vapour density</b>                               | Not available.  |
| <b>Relative density</b>                             | 0.94            |
| <b>Solubility(ies)</b>                              |                 |
| <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.  |
| <b>Viscosity</b>                                    | Not available.  |
| <b>Other information</b>                            |                 |
| <b>Explosive properties</b>                         | Not explosive.  |
| <b>Oxidising properties</b>                         | Not oxidising.  |
| <b>VOC</b>  | 0 %             |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. Read and follow manufacturer's recommendations. |
| <b>Chemical stability</b>                 | This product is stable under expected conditions of use.  |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerisation does not occur.  |
| <b>Conditions to avoid</b>                | Excessive heat. Contact with incompatible materials. Freezing.  |
| <b>Incompatible materials</b>             | Strong oxidising substances. Acids. Metal salts. Halogenated compounds. Calcium. Silver and its compounds.                                    |

**Hazardous decomposition products** Thermal decomposition or combustion may liberate toxic gases or fumes.

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Inhalation of vapours or mists of the product may be irritating to the respiratory system. Prolonged inhalation may be harmful.          |
| <b>Skin contact</b> | May be harmful if absorbed through skin. May be irritating to the skin. Prolonged or repeated contact may dry skin and cause dermatitis. |
| <b>Eye contact</b>  | Causes serious eye irritation.   |
| <b>Ingestion</b>    | Under normal conditions of intended use, this material does not pose a risk to health. May be harmful if swallowed.                      |

**Symptoms related to the physical, chemical and toxicological characteristics** Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

### Information on toxicological effects

**Acute toxicity** May cause discomfort if swallowed. May be harmful if absorbed through skin or swallowed.

| <b>Components</b> | <b>Species</b> | <b>Test Results</b> |
|-------------------|----------------|---------------------|
|-------------------|----------------|---------------------|

Sodium silicate (CAS 1344-09-8)

#### Acute

#### **Dermal**

LD50

Rabbit

> 4640 mg/kg

**Skin corrosion/irritation** May cause skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

### Respiratory or skin sensitisation

**Respiratory sensitisation** Based on available data, the classification criteria are not met.

**Skin sensitisation** May cause allergic skin disorders in sensitive individuals.

**Germ cell mutagenicity** Not classified.

**Carcinogenicity** Not classified.

**Reproductive toxicity** Not classified.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Due to the high viscosity the product is not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

**Further information** Not available.

## 12. Ecological information

**Ecotoxicity** 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>Components</b> | <b>Species</b> | <b>Test Results</b> |
|-------------------|----------------|---------------------|
|-------------------|----------------|---------------------|

Zinc Oxide (CAS 1314-13-2)

#### **Aquatic**

Crustacea

LC50

Water flea (Daphnia magna)

0.098 mg/l, 48 Hours

**Persistence and degradability** No data available.

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**Other adverse effects** Not available.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

|  |  |
|--|--|
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.   |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Not regulated.  |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).                   |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. No special precautions. |

## 14. Transport information

### TDG

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

## 15. Regulatory information

**Canadian regulations** This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

### Controlled Drugs and Substances Act

Not regulated.

### Export Control List (CEPA 1999, Schedule 3)

Not listed.

### Greenhouse Gases

Not listed.

### Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

Zinc Oxide (CAS 1314-13-2)

### Precursor Control Regulations

Not regulated.

### International regulations

#### Stockholm Convention

Not applicable.

#### Rotterdam Convention

Not applicable.

#### Kyoto Protocol

Not applicable.

#### Montreal Protocol

Not applicable.

#### Basel Convention

Not applicable.

### International Inventories

| 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) | No                     |
| Europe               | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| 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                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                        | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                     | Yes                    |

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information

|                      |  |
|----------------------|--|
| <b>Issue date</b>    | 21-December-2017   |
| <b>Revision date</b> | -  |
| <b>Version No.</b>   | 01   |
| <b>References</b>    | ACGIH<br>EPA: AQUIRE database<br>NLM: Hazardous Substances Data Base<br>US. IARC Monographs on Occupational Exposures to Chemical Agents<br>HSDB® - Hazardous Substances Data Bank<br>JIS Z 7250: 2005 Safety data sheet for chemical products-Part 1:Content and order of sections<br>JCIA GHS Guideline, October 2008<br>IARC Monographs. Overall Evaluation of Carcinogenicity<br>National Toxicology Program (NTP) Report on Carcinogens<br>ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices<br>Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits |
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