

# Safety Data Sheet



CPS IC142

Reviewed on 3/1/16

## 1. Product and Company Information

Product Name CPS Resin: Investment Casting Resin  
 Product Number CPS Resin: IC142

### Recommended use of the chemical and restrictions on use

Identified uses Photopolymer Resin.  
 Uses and exposure Photosensitive material for 3D printing  
 Uses advised against No information available

Company Arkema Inc.  
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 King of Prussia, Pennsylvania 19406

Telephone Number 303-520-4107

Emergency Number 303-520-4107

## 2. Hazard(s) Identification

### Emergency Overview

<b>Physical State</b>	Liquid		<b>Color</b>	Black
<b>Odor</b>	Characteristic		<b>Appearance</b>	Black

Hazard Summary: Causes skin irritation (H315);  
 Causes serious eye irritation (H319);  
 Toxic to aquatic life with long lasting effects (H411).

GHS Symbol:



### Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood  
 Avoid contact with eyes, skin and clothing  
 Keep container closed when not in use.

Wear protective gloves/protective clothing/eye protection/face protection  
Wash face, hands and any exposed skin thoroughly after handling

#### Precautionary Statements - Response

IF exposed or concerned, get medical advice/attention

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

IF ON SKIN: Gently wash with plenty of soap and water, Take off contaminated clothing and wash before reuse.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Collect spillage.

#### Precautionary Statements - Storage

Store locked up

Keep out of reach of children

#### Precautionary Statements - Disposal

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

Hazards not otherwise classified (HNOC)

None

#### Other Information

None

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

### **3. Composition/information on Ingredients**

Proprietary Formulation

### **4. First-aid Measures**

General:	Remove contaminated clothing.
Eye contact:	Wash affected eyes for at least 15 minutes under running water with eyelids held open.
Skin contact:	Wash thoroughly with soap and water. If irritation develops, seek medical attention.
Ingestion:	Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.

Inhalation: If difficulties occur after inhalation, remove to fresh air and seek medical attention.

## 5. Fire-Fighting Measures

Flash Point: >110°C

Auto-ignition Temperature: Unknown

Flammability: Unknown

Fire Fighting Information: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Emits toxic fumes under fire conditions.

Extinguishing Media: Dry chemical, sand, carbon dioxide, foam, water spray.

## 6. Accidental Release Measures

In case of spill: Prevent further spill or leak if possible to do so without risk. Ventilate the area. Avoid generation of vapors. Contain and collect spilled chemical with non-combustible absorbent material such as clean sand, earth, diatomaceous earth or non-acidic clay and place into suitable properly labeled containers for prompt disposal.

Personal precautions: Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Keep unprotected persons away from chemicals.

Environmental precautions: Keep out of drains and water courses. Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up: Absorb with an inert material and place in a chemical waste container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

## 7. Handling and Storage

### Precautions for safe handling

#### **Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice, Ensure adequate ventilation, Protect from light.

Conditions for safe storage, including any incompatibilities

**Technical measures/Storage conditions**

Keep container tightly closed in a dry and well-ventilated place, Protect from light.

**Incompatible products**

Amines, Strong oxidizing agents, Strong acids, Strong bases, Oxygen scavengers, Thiosulfates.

**8. Exposure Controls/ Personal Protection**

General Measures:	Keep away from foodstuff, beverages, and feed. Wash hands before breaks and at the end of work.
Engineering Controls:	Ensure adequate ventilation. Safety shower and eye bath should be nearby. Recommended use in a chemical fume hood.
Eye Protection:	Eye and face protection recommended. It is recommended to wear NIOSH or equivalent certified chemical goggles.
Hand Protection:	Chemical-resistant gloves recommended.
Skin and Body Protection:	Skin protection recommended.
Ventilation:	Provide natural or mechanical ventilation to minimize exposure. When dealing with TPO ( <b>refer to Section 3</b> ) avoid inhalation of dusts and it is recommended to wear NIOSH or equivalent particulate respirator.

**9. Physical and Chemical Properties**

Appearance:	Black
Physical State:	Liquid
Odor:	Mild
pH Value:	Not determined
Melting Point:	Not determined
Boiling Point:	Not determined
Flash Point:	Not applicable
Flammability:	Not applicable
Decomposition Temp.:	Not determined
Danger of explosion:	Product does not present an explosion hazard.

**10. Stability and Reactivity**

Chemical Stability: Stable under recommended storage conditions.

Hazardous Polymerization: Reacts rapidly upon exposure to ultraviolet light or in the presence of inhibitor depleting heat. Polymerization is hazardous and can degenerate into an uncontrolled reaction.

Incompatible materials: Strong oxidizing agents, strong reducing agents, free radical generators, oxygen scavengers, and peroxides.

Hazardous Decomposition Products:

Acrid smoke-fumes, carbon monoxide, carbon dioxide, sulfur oxides, hydrocarbons, nitrogen oxides and perhaps other toxic vapors may be released during a fire involving this product.

**11. Toxicological Information**

Route of Exposure: Through contact with skin or after permeation of clothing.  
Inhalation of vapors.

Toxicity

Oral: Practically nontoxic. (Rat) LD50 > 2,000 mg/kg.

Inhalation: 4 h acute toxicity estimate > 40 mg/L.

**12. Ecological Information**

Toxic hazard to aquatic environment with long lasting effects. Avoid exposure to nature resources at all costs.

**13. Disposal Considerations**

Dissolve or mix with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Must not be disposed of together with household garbage.

**14. Transport Information**

UN-Number

DOT, TDG, ADN, IMDG, IATA: Non-regulated material

UN-Proper Shipping name

DOT, TDG, AND, IMDG, IATA: Non-regulated material

Transport hazard class(es)

DOT, TDG, ADN, IMDG, IATA

Class: Non-regulated material

Packing group

DOT, ADN, IMDG, IATA: Non-regulated material

Environmental hazards: Not applicable

Special precautions for user: Not applicable

### 15. Regulatory Information

Federal Regulations: Follow Hazardous Chemical Storage Reporting Requirements  
EPCRA 311-312

### 16. Other Information

Revision Date: 3/1/16

Abbreviations: GHS-Globally Harmonized System of Classification and Labeling of Chemicals  
NIOSH-National Institute for Occupational Safety and Health  
HMIS-Hazardous Materials Identification System  
EPCRA-Emergency Planning and Community Right-to-Know Act

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