# SAFETY DATA SHEET

**PR57 CMYKW Resins**

*Autodesk Inc.*

According to OSHA 29 CFR 1910.1200

Reviewed on 04/12/2016

## 1. Identification

### Product identifier:

**Product name**

Autodesk Resin: PR57 Cyan, PR57 Magenta, PR57 Yellow, PR57 Black, PR57 White, PR57-K-v.2 Black

**Other means of identification:**

**Synonyms**

Autodesk Resin: PR57-C, PR57-M, PR57-Y, PR57-K, PR57-W, PR57-K-v.2

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

**Identified uses**

Prototyping Resin.

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

**Supplier**

Autodesk, Inc.

111 McInnis Parkway

San Rafael, CA 94903

USA

**Emergency telephone**

North American Safety Department: Arvato Bertelsman 800-535-5053

## 2. Hazard(s) identification

### Classification

**OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Physical Hazards**

Not classified.

**Health Hazards**

- Acute toxicity, Oral
  
  Category 4

- Skin corrosion/Irritation
  
  Category 2

- Serious eye damage/Eye irritation
  
  Category 2A

- Reproductive toxicity
  
  Category 1B

**Environment Hazards**

- Aquatic Chronic toxicity
  
  Category 2

**OSHA defined hazards**

None known.

**GHS label elements**

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Hazard statements</th>
<th>Precautionary statements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Danger</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
<td></td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
<td></td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
<td></td>
</tr>
<tr>
<td>H360</td>
<td>May damage fertility or the unborn child.</td>
<td></td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
<td></td>
</tr>
</tbody>
</table>

**Prevention**

P264 Wash hands thoroughly after handling.
Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P301 + P312
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302 + P352
IF ON SKIN: wash with plenty of soap and water.

P305 + P351 + 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.

P332 + P313
IF SKIN irritation occurs: Get medical advice/attention.

P337 + P313
IF eye irritation persists: Get medical advice/attention.

P362+364
Take off contaminated clothing and wash it before reuse.

Collect spillage.

**Storage**

P405
Store locked up.

**Disposal**

P501
Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system:**

**NFPA Ratings (scale 0-4)**

![NFPA Ratings](image)

- Health=2
- Fire=1
- Reactivity=1

**HMIS-ratings (0-4)**

![HMIS Ratings](image)

- Health =2
- Fire =1
- Reactivity= 1

**Hazard(s) not otherwise classified (HNOC)**

None known.

### 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>Percentage (wt/wt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkox. pentaerythritol tetraacrylate</td>
<td>144086-02-2</td>
<td>30-60</td>
</tr>
<tr>
<td>Di(trimethylolpropane)tetraacrylate</td>
<td>94108-97-1</td>
<td>30-60</td>
</tr>
<tr>
<td>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one</td>
<td>71868-10-5</td>
<td>0-2</td>
</tr>
<tr>
<td>Pigments</td>
<td>-</td>
<td>0-1</td>
</tr>
</tbody>
</table>
4. First-aid measures

Description of first aid measures

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

**Ingestion**
Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.

**Skin contact**
Wash thoroughly with soap and water. If irritation develops, seek medical attention.

**Eye contact**
Wash affected eyes for at least 15 minutes under running water with eyelids held open.

**Most important symptoms/effects, both acute and delayed**
No specific symptoms noted.

**Indication of immediate medical attention and special treatment needed**
No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

5. Fire-fighting measures

**Suitable extinguishing media**
Dry chemical, sand, carbon dioxide, foam, water spray.

**Unsuitable extinguishing media**
None known.

**Specific hazards arising from the chemical**
In case of fire, toxic gases (CO, CO$_2$, NOx) may be formed.

**Special protective equipment and precautions for firefighters**
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
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 and materials for containment and 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.

**Reference to other sections**
Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13. See section 11 for additional information on health hazards.

7. Handling and storage

**Precautions for safe handling**
Do not breathe vapor. Do not get in eyes, on skin, or clothing. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**
Keep in a dry, cool place. Store in closed containers, in a secure area to prevent container damage and subsequent spillage. Store out of direct sunlight in a cool well-ventilated place. Do not store under inert gas.

**Specific end use(s)**
The identified uses for this product are detailed in Section 1.
8. Exposure controls/personal protection

Occupational exposure limits
No exposure limit value known.

Protective equipment

Appropriate engineering controls
Ensure adequate ventilation. Safety shower and eye bath must be nearby. Use in a chemical fume hood.

Respiratory equipment
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hand protection
Wear chemical-resistant gloves.

Eye protection
Wear eye and face protection. Wear NIOSH or equivalent certified chemical goggles.

Other protection
Wear skin protection.

General hygiene considerations
Keep away from foodstuff, beverages, and feed. Wash hands before breaks and at the end of work.

9. Physical and chemical properties

Appearance
Liquid.

Color
Cyan, Magenta, Yellow, Black, White.

Odor
Mild.

Odor threshold
No information available.

pH-Value
No information available.

Boiling point/Range
No information available.

Melting point/Range
No information available.

Flash point
>110°C.

Flammability (solid, gas)
Not applicable.

Auto Ignition temperature
No information available.

Decomposition temperature
No information available.

Explosive properties
Product does not present an explosion hazard.

Oxidizing Properties
No information available.

Vapor pressure
No information available.

Relative density
No information available.

Bulk density
No information available.

Vapor density
No information available.

Evaporation rate
No information available.

Solubility
No information available.

Partition coefficient Log P o/w (Octanol/Water)
No information available.

Viscosity
No information available.

Other data
No information available.

10. Stability and reactivity

Reactivity
No specific reactivity hazards associated with this product.
Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
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. Do not store under inert gas.

Conditions to avoid
Avoid contact with incompatibles.

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

Information on likely routes of exposure
<table>
<thead>
<tr>
<th>Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No information available.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Irritating to mucus membranes and skin.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Causes serious eye irritation.</td>
</tr>
</tbody>
</table>

Symptoms related to the physical, chemical and toxicological characteristics
No information available.

Delayed and immediate effects and also chronic effects from short- and long-term exposure
No information available.

Numerical measures of toxicity
No information available.

<table>
<thead>
<tr>
<th>Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>No information available.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>No information available.</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>No information available.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No information available.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>The total product is not on the International Agency for Research on Cancer (IARC), National Toxicology Program (NTP), or OSHA for carcinogens or potential carcinogens.</td>
</tr>
</tbody>
</table>

Reproductive toxicity
May damage fertility or the unborn child.

Specific target organ toxicity - single exposure
No information available.

Specific target organ toxicity - repeated exposure
No information available.

Aspiration hazard
No information available.

12. Ecological information

Ecotoxicity
Harmful to aquatic life with long lasting effects.
# Numerical measures of toxicity

## Product Information

<table>
<thead>
<tr>
<th>Product name</th>
<th>Test</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR57 CMYKW Resins</td>
<td>Crustacea EC&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Water flea (Ceriodaphnia dubia)</td>
<td>81.61 mg/l, 24h 44.88 mg/l, 48h 22.82 mg/l, 7d</td>
</tr>
<tr>
<td></td>
<td>Crustacea NOEC</td>
<td></td>
<td>80 mg/l, 24h 40 mg/l, 48h</td>
</tr>
</tbody>
</table>

## Component Information

<table>
<thead>
<tr>
<th>Components</th>
<th>Test</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkox. pentaerythiol tetraacrylate (CAS# 144086-02-2)</td>
<td>Fish LC&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Zebra fish (Danio rerio)</td>
<td>7.9 mg/l, 96h</td>
</tr>
<tr>
<td>Di(trimethylolpropane)tetraacrylate (CAS# 94108-97-1)</td>
<td>Fish LC&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Common carp (Cyprinus carpio)</td>
<td>1.2 mg/l, 96h</td>
</tr>
<tr>
<td>Algae EC&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Micro algae (Pseudokirchneriella subcapitata)</td>
<td></td>
<td>= &gt;12 mg/l, 72h</td>
</tr>
<tr>
<td>Crustacea EC&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Water flea (Daphnia magna)</td>
<td></td>
<td>= &gt;10 mg/l, 48h</td>
</tr>
<tr>
<td>2-methyl-1-(4-methylthiophenyl)-2-Morpholinopropan-1-one (CAS# 71868-10-5)</td>
<td>Fish LC&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Zebra fish (Danio rerio)</td>
<td>9 mg/l, 96h</td>
</tr>
<tr>
<td>Algae EC&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Green algae (Pediastrum boryanum)</td>
<td></td>
<td>1.7 mg/l, 72h</td>
</tr>
<tr>
<td>Crustacea EC&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Water flea (Daphnia magna)</td>
<td></td>
<td>15 mg/l, 24h</td>
</tr>
</tbody>
</table>

## Persistence and degradability

- There are no data on the degradability of this product.

## Bioaccumulative potential

- No data available on bioaccumulation.

## Mobility in soil

- No data available.

## Results of PBT and vPvB assessment

- This product does not contain any PBT or vPvB substances.

## Other adverse effects

- Not available.

### 13. Disposal considerations

#### Disposal instructions

- Must not be disposed of together with household garbage. Not allow product to reach sewage system.

#### Contaminated packaging

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

### 14. Transport information

<table>
<thead>
<tr>
<th>DOT</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code Notes**

- Not applicable.
15. Regulatory information

**US federal regulations**

This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 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)**

None of the ingredients are listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

None of the ingredients are listed.

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

<table>
<thead>
<tr>
<th>Hazard categories</th>
<th>Immediate Hazard</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delayed Hazard</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Pressure Hazard</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Reactivity Hazard</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

**SARA 302/304 Extremely hazardous substance**

None of the ingredients are listed.

**SARA 311/312 Hazardous chemical**

Yes

**SARA 313 (TRI reporting)**

None of the ingredients are listed.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

None of the ingredients are listed.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

None of the ingredients are listed.

**Safe Drinking Water Act (SDWA)**

None of the ingredients are listed.

**US State regulations**

**US. New Jersey Worker and Community Right-to-Know Act**

Not regulated.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not regulated.

**US. California Proposition 65**

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT):**

Not regulated.

**International Inventories**

<table>
<thead>
<tr>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Non- Domestic Substances List (NDSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Toxic Substances Control Act (TSCA)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Revision date</th>
<th>April 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision</td>
<td>4</td>
</tr>
</tbody>
</table>

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