



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



Signal word

Danger

Hazard statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H360	May damage fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P264 Wash hands thoroughly after handling.

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
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.

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.
P391	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)**

Health=2
Fire=1
Reactivity=1

HMIS-ratings (0-4)

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

Hazard(s) not otherwise classified (HNOC)

None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	Percentage (wt/wt)
Alkox. pentaerythritol tetraacrylate	144086-02-2	30-60
Di(trimethylolpropane)tetraacrylate	94108-97-1	30-60
2-[[[(butylamino)carbonyl]oxy]ethyl acrylat	63225-53-6	10-30
2-methyl-1-(4-methylthioiphenyl)-2-morpholinopropan-1-one	71868-10-5	0-2
Pigments	-	0-1

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 , NO _x) 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

Ingestion	Harmful if swallowed.
Inhalation	No information available.
Skin contact	Irritating to mucus membranes and skin.
Eye contact	Causes serious eye irritation.
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.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization

No information available.

Skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

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.

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**

Product name	Test	Species	Test Results
PR57 CMYKW Resins	Crustacea EC ₅₀	Water flea (<i>Ceriodaphnia dubia</i>)	81.61 mg/l, 24h 44.88 mg/l, 48h 22.82 mg/l, 7d
	Crustacea NOEC		80 mg/l, 24h 40 mg/l, 48h

Component Information

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

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

	DOT	IMDG	IATA
UN number	Not applicable.	Not applicable	Not applicable
UN proper shipping name	Not regulated.	Not regulated.	Not regulated.
Transport hazard class(es)	Not applicable.	Not applicable.	Not applicable.
Packing group	Not applicable.	Not applicable.	Not applicable.
Environmental hazards	No	No	No

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)

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

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

Inventory name	On inventory (yes/no)*
Domestic Substances List (DSL)	Yes
Non- Domestic Substances List (NDSL)	Yes
European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
European List of Notified Chemical Substances (ELINCS)	Yes
New Zealand Inventory	Yes
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

Revision date	April 2016
Revision	4

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.