



## AquaSol Yellow PZ-WS 706CY

# SAFETY DATA SHEET

ACCORDING TO US CFR 1910.1200

### 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1 Product identifier</b>	
Product Name	AquaSol Yellow PZ-WS 706CY.
CAS No.	Mixtures.
EINECS No.	Mixtures.
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	
Identified use(s)	Production of disposable patterns and/or sprues for use in the art casting process. Industrial use only, not intended for public use.
Uses advised against	None known.
<b>1.3 Details of the supplier of the Safety Data Sheet</b>	
Company Identification	Precizioned® distributed/manufactured by International Precision Casting Supplies 1570 Terex Road Hudson, Ohio 44236
Telephone	+13303420407
E-Mail (competent person)	nnawalaniec@ipcs-uk.com
<b>1.4 Emergency telephone number</b>	
Company	+13303420407 (office hours: 0800 – 1700 EST)

### 2. SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>	
US CFR 1910.1200	Not classified as dangerous for supply/use.
<b>2.2 Label elements</b>	
Product Name	AquaSol Yellow PZ-WS 706CY.
Hazard pictogram(s)	None.
Signal word(s)	None.
Hazard statement(s)	None.
Precautionary statement(s)	None.
<b>2.3 Other hazards</b>	The molten form can cause thermal burns if in contact with skin or eyes.
<b>2.4 Additional Information</b>	None.



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### 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Contains: A blend of polyethylene glycol, soluble polymers, inorganic fillers, and dye.

#### 3.1 Mixtures

Hazardous Ingredient(s)	CAS No.	%W/W

#### 3.2 Additional Information

None.

### 4. SECTION 4: FIRST AID MEASURES



#### 4.1 Description of first aid measures

Inhalation	Unlikely route of exposure. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact	In case of burns immediately cool affected skin as long as possible with cold water. Molten material can cause severe burns. Do NOT try to peel molten material from the skin. Cool rapidly with water. Get medical attention.
Eye Contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Get medical attention.
Ingestion	Wash out mouth with water. Do not induce vomiting seek medical attention if irritation persists.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	Molten material will adhere to the skin causing deep thermal burns.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	Unlikely to be required but if necessary treat symptomatically. Seek medical advice.

### 5. SECTION 5: FIRE-FIGHTING MEASURES

<b>5.1 Extinguishing Media</b> Suitable Extinguishing Media	Extinguish preferably with foam, water mist, carbon dioxide or dry chemical.
Unsuitable Extinguishing Media	Do not use water jet as it can result in spreading the fire.
<b>5.2 Special hazards arising from the substance or mixture</b>	Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide.
<b>5.3 Advice for fire-fighters</b>	Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

### 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Caution - spillages may be slippery. When molten: Avoid contact with skin and eyes. Wash hands thoroughly after handling.
<b>6.2 Environmental precautions</b>	Prevent release to the environment. Prevent product from being released into drains.



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- 6.3 **Methods and material for containment and cleaning up**      Sweep up solid substance. When molten: Allow product to cool/solidify and pick up as a solid. Wipe up remainder then remove to safe place.
- 6.4 **Reference to other sections**      See Also Section: 8, 13.

### 7. SECTION 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling**      Provide adequate ventilation. Avoid breathing fumes. Avoid contact with heated or molten product. Do not eat, drink or smoke when using this product. Wear suitable gloves.
- 7.2 **Conditions for safe storage, including any incompatibilities**      Keep container tightly closed and dry. This product should be stored away from sources of strong heat, direct sunlight or oxidising chemicals.
  - Storage Temperature      5 - 30°C
  - Storage Life      Stable under normal conditions.
  - Incompatible materials      Strong oxidising agents.


### 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION


- 8.1 **Control parameters**
- 8.1.1 **Occupational Exposure Limits**


SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Dust- inhalable, and particulates not otherwise regulated		-	5 5	-	-	NIOSH OSHA
Dust Total		-	15	-	-	OSHA

Source: NIOSH = National Institute of Occupational Safety & Health, OSHA = Occupational Safety and Health Administration

- 8.2 **Appropriate engineering controls**      Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.
- 8.3 **Individual protection measures, such as personal protective equipment (PPE)**
  - Eye/face protection      Not normally required.  
Wear eye/face protection.
 


  - Skin protection (Hand protection/ Other)      Not normally required.  
Wear suitable gloves if prolonged skin contact is likely.
 


  - Respiratory protection      No personal respiratory protective equipment normally required. Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.
 


  - Thermal hazards      When molten: Wear insulating gloves EN407 (heat).



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### 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties**

Appearance	Solid (Wax).
Colour	Yellow.
Odour	Waxy.
Odour Threshold	Not available.
pH	Not applicable.
Melting Point/Freezing Point	~148°F
Initial boiling point and boiling range	Not available.
Flash point	>185°C [Open cup]
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	1.5419 @ 77°F
Solubility(ies)	Soluble in water and organic solvents.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	865 cPs @ 200°F
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

**9.2 Other information**

None.

### 10. SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Stable under normal conditions.
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	No hazardous reactions known if used for its intended purpose.
<b>10.4 Conditions to avoid</b>	Heat and direct sunlight. Avoid keeping material in molten state when not in use. Excessive heat exposure can cause thermal degradation of product which can cause generation of gas buildup in closed systems.
<b>10.5 Incompatible materials</b>	Strong oxidising agents, strong acids, strong bases.
<b>10.6 Hazardous Decomposition Product(s)</b>	Decomposition products depend on system variables such as air supply and other materials present. Products can include but are not limited to carbon dioxide, carbon monoxide, ethers, alcohols, aldehydes, and carboxylic acids.

### 11. SECTION 11: TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects**

**11.1.1 Mixtures**

Acute toxicity	Low acute toxicity.
Irritation	Solid material may cause eye and skin irritation.



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<b>Corrosivity</b>	The molten form can cause thermal burns if in contact with skin or eyes.
<b>Sensitisation</b>	None anticipated.
<b>Repeated dose toxicity</b>	None anticipated.
<b>Carcinogenicity</b>	No evidence of carcinogenicity.
<b>Mutagenicity</b>	There is no evidence of mutagenic potential.
<b>Toxicity for reproduction</b>	None anticipated.
<b>11.2 Other information</b>	None.

### 12. SECTION 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	No information available.
<b>12.2 Persistence and degradability</b>	No information available.
<b>12.3 Bioaccumulative potential</b>	No information available.
<b>12.4 Mobility in soil</b>	No information available.
<b>12.5 Other adverse effects</b>	None.
<b>12.6 Other (Note)</b>	Users should ensure that it is stored, handled, and disposed of in a manner that prevents it release into the environment. Spent material from the flash fire furnace or autoclave must be stored in such a manner to prevent environmental contamination. This goes for solid product and rainwater runoff from it.

### 13. SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>	Dispose at suitable refuse site.
<b>13.2 Additional Information</b>	Disposal should be in accordance with local, state or national legislation.

### 14. SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

<b>14.1 UN number</b>	Not applicable.
<b>14.2 UN Proper Shipping Name</b>	Not applicable.
<b>14.3 Transport hazard class(es)</b>	Not applicable.
<b>14.4 Packing Group</b>	Not applicable.
<b>14.5 Environmental hazards</b>	Not applicable.
<b>14.6 Special precautions for user</b>	Not applicable.
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

### 15. SECTION 15: REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
<b>15.1.1 OSHA</b> Toxic and hazardous substances (29 CFR 1910; Subpart Z)	All chemicals are not listed.
<b>15.1.2 Title III Consolidated List of Lists</b>	All chemicals are not listed.
<b>15.1.3 OSPAR List of Chemicals for Priority Action</b>	All chemicals are not listed.



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<b>15.1.4 State Right to Know Lists</b>	None.
<b>15.1.5 TSCA (Toxic Substance Control Act)</b>	All chemicals listed.
<b>15.1.6 Proposition 65 (California)</b>	All chemicals are not listed.
<b>15.1.7 CAA 602 - Ozone Depleting Substances (ODS)</b>	All chemicals are not listed.
<b>15.1.8 International Agency for Research on Cancer</b>	All chemicals are not listed.
<b>15.1.9 National Toxicology Program</b>	All chemicals are not listed.

### 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16. New SDS.

NFPA		HMIS	
Health	0	Health	0
Fire	0	Flammability	0
Instability	0	Physical hazards	0

#### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
NFPA	NFPA (National Fire Protection Association)
HMIS	HMIS (Hazardous Material Information System)
OSHA	Occupational Safety and Health Administration

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