



AquaSol Orange PZ-WS 708FOR

SAFETY DATA SHEET

ACCORDING TO US CFR 1910.1200

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

- | | |
|--|--|
| 1.1 Product identifier | |
| Product Name | AquaSol Orange PZ-WS 708FOR. |
| CAS No. | Mixtures. |
| EINECS No. | Mixtures. |
| 1.2 Relevant identified uses of the substance or mixture and uses advised against | |
| 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. |
| 1.3 Details of the supplier of the Safety Data Sheet | |
| Company Identification | Precizioned® distributed/manufactured by International Precision Casting Supplies
1570 Terex Road
Hudson, Ohio 44236
+13303420407
info@precizioned.com |
| Telephone | |
| E-Mail (competent person) | |
| 1.4 Emergency telephone number | |
| Company | +13303420407 (office hours: 0800 – 1700 EST) |

2. SECTION 2: HAZARDS IDENTIFICATION

- | | |
|---|--|
| 2.1 Classification of the substance or mixture | |
| US CFR 1910.1200 | Not classified as dangerous for supply/use. |
| 2.2 Label elements | |
| Product Name | AquaSol Orange PZ-WS 708FOR. |
| Hazard pictogram(s) | None. |
| Signal word(s) | None. |
| Hazard statement(s) | None. |
| Precautionary statement(s) | None. |
| 2.3 Other hazards | The molten form can cause thermal burns if in contact with skin or eyes. |
| 2.4 Additional Information | None. |



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3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Contains: A blend of polyethylene glycol, soluble polymers, 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.

4.2 Most important symptoms and effects, both acute and delayed

Molten material will adhere to the skin causing deep thermal burns.

4.3 Indication of any immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically. Seek medical advice.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

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.

5.2 Special hazards arising from the substance or mixture

Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide.

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Caution - spillages may be slippery. When molten: Avoid contact with skin and eyes. Wash hands thoroughly after handling.

6.2 Environmental precautions

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.	LTCL (8 hr TWA ppm)	LTCL (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	Orange.
Odour	Waxy.
Odour Threshold	Not available.
pH	Not applicable.
Melting Point/Freezing Point	~147°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	1.2184 @ 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	633cPs @ 200°F
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information

None.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid	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.
10.5 Incompatible materials	Strong oxidising agents, strong acids, strong bases
10.6 Hazardous Decomposition Product(s)	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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	Corrosivity	The molten form can cause thermal burns if in contact with skin or eyes.
	Sensitisation	None anticipated.
	Repeated dose toxicity	None anticipated.
	Carcinogenicity	No evidence of carcinogenicity.
	Mutagenicity	There is no evidence of mutagenic potential.
	Toxicity for reproduction	None anticipated.
11.2	Other information	None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	No information available.
12.2	Persistence and degradability	No information available.
12.3	Bioaccumulative potential	No information available.
12.4	Mobility in soil	No information available.
12.5	Other adverse effects	None.
12.6	Other (Note)	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

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

14. SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

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

15. SECTION 15: REGULATORY INFORMATION

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



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

16. SECTION 16: OTHER INFORMATION

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

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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