



Frost Aqua PZ-J 523AA

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010

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

1.1 Product identifier	
Product Name	Frost Aqua PZ-J 523AA.
CAS No.	Mixtures.
EINECS No.	Mixtures.
REACH Registration No.	None assigned.
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
Telephone	+13303420407
E-Mail (competent person)	nnawalaniec@ipcs-uk.com
1.4 Emergency telephone number	
Company	+13303420407 (office hours: 0800 – 1700 EST)
National Poisons Information Service	111

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
Regulation (EC) No. 1272/2008 (CLP)	Not classified as dangerous for supply/use.
2.2 Label elements	
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) Frost Aqua PZ-J 523AA.
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 hydrocarbon waxes, resins, polymers, proprietary organic whitening agent, and oil soluble dye.

3.1 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Paraffin waxes and Hydrocarbon waxes	30 - 50	8002-74-2	232-315-6	01-2119488076-30-0000	None

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.

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, carbon dioxide or dry chemical.

Unsuitable Extinguishing Media

Do not use water jet.

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.



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6. SECTION 6: ACCIDENTAL RELEASE MEASURES

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| 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. |
| 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

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| 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. |
| 7.3 Specific end use(s) | Avoid heating above 100°C (212°F) during the casting process (except for dewax operations). Do not allow unused molten material to stand in melt tanks and injection equipment. Stir molten material at all times. |

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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|---|---|
| 8.1 Control parameters | |
| 8.1.1 Occupational Exposure Limits | Paraffin wax fumes may be released from the product when in the molten state. |

SUBSTANCE	CAS No.	LTCL (8 hr TWA ppm)	LTCL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Paraffin waxes and Hydrocarbon waxes	8002-74-2	-	2	-	6	WEL

Source: WEL: Workplace Exposure Limit (UK HSE EH40)

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|---|--|
| 8.1.2 Biological limit value | Not established. |
| 8.1.3 PNECs and DNELs | Not established. |
| 8.2 Exposure controls | |
| 8.2.1 Appropriate engineering controls | Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present. |
| 8.2.2 Personal protection equipment | |
| Eye/face protection | Wear eye/face protection. |



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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), and eye protection.

8.2.3 Environmental Exposure Controls

Prevent release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Solid (Wax).
Colour	Aqua.
Odour	Waxy.
Odour Threshold	Not available.
pH	Not applicable.
Melting Point/Freezing Point	-67.8°C (154°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	0.9522 @ 77°F
Solubility(ies)	Insoluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	325cPs @ 160°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.
10.5 Incompatible materials	Strong oxidising agents.
10.6 Hazardous Decomposition Product(s)	No hazardous decomposition products known.



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11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
11.1.1	Mixtures	
	Acute toxicity	Low acute toxicity.
	Irritation	Non-irritant.
	Corrosivity	The molten form can cause thermal burns if in contact with skin or eyes.
	Sensitisation	It is not a skin sensitiser.
	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	Low toxicity to aquatic organisms.
12.2	Persistence and degradability	No information available.
12.3	Bioaccumulative potential	No information available.
12.4	Mobility in soil	Insoluble in water. The product is predicted to have low mobility in soil.
12.5	Results of PBT and VPVB assessment	Not classified as PBT or vPvB.
12.6	Other adverse effects	None.

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	EU regulations	
	Authorisations and/or restrictions on use	
	Candidate List of Substances of Very High Concern for Authorisation	All chemicals are not listed.



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REACH: ANNEX XIV List of substances subject to authorisation	All chemicals are not listed.
REACH: ANNEX XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	All chemicals are not listed.
Community Rolling Action Plan (CoRAP)	All chemicals are not listed.
15.1.2 National regulations	None known.
15.2 Chemical Safety Assessment	Not available.

16. SECTION 16: OTHER INFORMATION

Revision Information: Section 3 updated, product code updated.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

No information available.