



Fire Flex Blue PZ-J 516KB
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	Fire Flex Blue PZ-J 516KB.
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
Telephone	+13303420407
E-Mail (competent person)	nnawalaniec@ipcs-uk.com
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	Fire Flex Blue PZ-J 516KB.
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.



Fire Flex Blue PZ-J 516KB

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Contains: A blend of hydrocarbon and natural waxes, resins, polymers, and oil soluble dye.

3.1 Mixtures

Hazardous Ingredient(s)	CAS No.	%W/W
Paraffin waxes and Hydrocarbon waxes	8002-74-2	30 - 50

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 Unsuitable Extinguishing Media	Extinguish preferably with foam, carbon dioxide or dry chemical. 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.	

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.

Fire Flex Blue PZ-J 516KB

- 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** 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	NIOSH

Source: NIOSH = National Institute of Occupational Safety & Health

- 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  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), and wear eye protection.



Fire Flex Blue PZ-J 516KB

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
	Appearance	Solid (Wax).
	Colour	Blue.
	Odour	Waxy.
	Odour Threshold	Not available.
	pH	Not applicable.
	Melting Point/Freezing Point	~157°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	0.9527 @ 77°F
	Solubility(ies)	Insoluble in water.
	Partition coefficient: n-octanol/water	Not available.
	Auto-ignition temperature	Not available.
	Decomposition Temperature	Not available.
	Viscosity	565cPs @ 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.

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.



Fire Flex Blue PZ-J 516KB

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	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	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.
15.1.4	State Right to Know Lists	Paraffin waxes and Hydrocarbon waxes (CAS No.: 8002-74-2): California, Pennsylvania, Massachusetts, Minnesota.
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.



Fire Flex Blue PZ-J 516KB

16. SECTION 16: OTHER INFORMATION

Revision Information: Name and product code updated.

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

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Precizioned® distributed/manufactured by International Precision Casting Supplies gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Precizioned® distributed/manufactured by International Precision Casting Supplies accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.