



## Frost Red PZ-J 524AR

# 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

<b>1.1 Product identifier</b>	
Product Name	Frost Red PZ-J 524AR.
CAS No.	Mixtures.
EINECS No.	Mixtures.
REACH Registration No.	None assigned.
<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 +13303420407 nnawalaniec@ipcs-uk.com
Telephone	
E-Mail (competent person)	
<b>1.4 Emergency telephone number</b>	
Company	+13303420407 (office hours: 0800 – 1700 EST)
National Poisons Information Service	111

### 2. SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>	
Regulation (EC) No. 1272/2008 (CLP)	Not classified as dangerous for supply/use.
<b>2.2 Label elements</b>	
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) Frost Red PZ-J 524AR.
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.



## Frost Red PZ-J 524AR

### 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.



## Frost Red PZ-J 524AR

### 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.  |
| <b>6.3 Methods and material for containment and cleaning up</b>                | 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. |
| <b>6.4 Reference to other sections</b>   | See Also Section: 8, 13.   |

### 7. SECTION 7: HANDLING AND STORAGE

- |   |   |
|---|---|
| <b>7.1 Precautions for safe handling</b>                                | 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.   |
| <b>7.2 Conditions for safe storage, including any incompatibilities</b> | Keep container tightly closed and dry. This product should be stored away from sources of strong heat, direct sunlight or oxidising chemicals.<br>5 - 30°C<br>Stable under normal conditions.<br>Strong oxidising agents. |
| <b>7.3 Specific end use(s)</b>  | 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

- |   |   |
|---|---|
| <b>8.1 Control parameters</b>             |   |
| <b>8.1.1 Occupational Exposure Limits</b> | 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 <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
Paraffin waxes and Hydrocarbon waxes	8002-74-2	-	2	-	6	WEL

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

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



## Frost Red PZ-J 524AR

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	Red.
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	445cPs @ 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.



## Frost Red PZ-J 524AR

### 11. SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1</b>	<b>Information on toxicological effects</b>	
<b>11.1.1</b>	<b>Mixtures</b>	
	<b>Acute toxicity</b>	Low acute toxicity.
	<b>Irritation</b>	Non-irritant.
	<b>Corrosivity</b>	The molten form can cause thermal burns if in contact with skin or eyes.
	<b>Sensitisation</b>	It is not a skin sensitiser.
	<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</b>	<b>Other information</b>	None.

### 12. SECTION 12: ECOLOGICAL INFORMATION

<b>12.1</b>	<b>Toxicity</b>	Low toxicity to aquatic organisms.
<b>12.2</b>	<b>Persistence and degradability</b>	No information available.
<b>12.3</b>	<b>Bioaccumulative potential</b>	No information available.
<b>12.4</b>	<b>Mobility in soil</b>	Insoluble in water. The product is predicted to have low mobility in soil.
<b>12.5</b>	<b>Results of PBT and VPVB assessment</b>	Not classified as PBT or vPvB.
<b>12.6</b>	<b>Other adverse effects</b>	None.

### 13. SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1</b>	<b>Waste treatment methods</b>	Dispose at suitable refuse site.
<b>13.2</b>	<b>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</b>	<b>UN number</b>	Not applicable.
<b>14.2</b>	<b>UN Proper Shipping Name</b>	Not applicable.
<b>14.3</b>	<b>Transport hazard class(es)</b>	Not applicable.
<b>14.4</b>	<b>Packing Group</b>	Not applicable.
<b>14.5</b>	<b>Environmental hazards</b>	Not applicable.
<b>14.6</b>	<b>Special precautions for user</b>	Not applicable.
<b>14.7</b>	<b>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</b>	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
<b>15.1.1</b>	<b>EU regulations</b>	
	<b>Authorisations and/or restrictions on use</b>	
	Candidate List of Substances of Very High Concern for Authorisation	All chemicals are not listed.



## Frost Red PZ-J 524AR

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.
<b>15.1.2 National regulations</b>	None known.
<b>15.2 Chemical Safety Assessment</b>	Not available.

### 16. SECTION 16: OTHER INFORMATION

**Revision Information:** New SDS.

#### 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.