



**Fire Dura Green PZ-J 521HGN**  
**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   | Fire Dura Green PZ-J 521HGN.  |
| 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<br>1570 Terex Road<br>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> |  |
| <b>US CFR 1910.1200</b>                               | Not classified as dangerous for supply/use.                              |
| <b>2.2 Label elements</b>                             |  |
| Product Name  | Fire Dura Green PZ-J 521HGN.   |
| 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.  |



## Fire Dura Green PZ-J 521HGN

### 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

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.

### 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 Dura Green PZ-J 521HGN

- |   |  |
|---|--|
| <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.                              |
| Storage Temperature   | 5 - 30°C  |
| Storage Life  | Stable under normal conditions.   |
| Incompatible materials  | Strong oxidising agents.  |

### 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.   | LTEL (8 hr TWA ppm) | LTEL (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                         | NIOSH |

Source: NIOSH = National Institute of Occupational Safety & Health

- |   |   |
|---|---|
| <b>8.2 Appropriate engineering controls</b>   | Provide adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.  |
| <b>8.3 Individual protection measures, such as personal protective equipment (PPE)</b>  |   |
| Eye/face protection<br>                      | Wear eye/face protection.   |
| Skin protection (Hand protection/ Other)<br> | Not normally required.<br>Wear suitable gloves if prolonged skin contact is likely.   |
| Respiratory protection<br>                   | 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.   |



## Fire Dura Green PZ-J 521HGN

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

|            |  |                     |
|------------|--|---------------------|
| <b>9.1</b> | <b>Information on basic physical and chemical properties</b> |                     |
|            | Appearance   | Solid (Wax).        |
|            | Colour   | Green.              |
|            | Odour  | Waxy.               |
|            | Odour Threshold  | Not available.      |
|            | pH   | Not applicable.     |
|            | Melting Point/Freezing Point                                 | ~156°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  | 1040cPs @ 160°F     |
|            | Explosive properties   | Not explosive.      |
|            | Oxidising properties   | Not oxidising.      |
| <b>9.2</b> | <b>Other information</b>                                     | None.               |

### 10. SECTION 10: STABILITY AND REACTIVITY

|             |   |  |
|-------------|---|--|
| <b>10.1</b> | <b>Reactivity</b>                         | Stable under normal conditions.                                |
| <b>10.2</b> | <b>Chemical stability</b>                 | Stable under normal conditions.                                |
| <b>10.3</b> | <b>Possibility of hazardous reactions</b> | No hazardous reactions known if used for its intended purpose. |
| <b>10.4</b> | <b>Conditions to avoid</b>                | Heat and direct sunlight.                                      |
| <b>10.5</b> | <b>Incompatible materials</b>             | Strong oxidising agents.                                       |
| <b>10.6</b> | <b>Hazardous Decomposition Product(s)</b> | No hazardous decomposition products known.                     |

### 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.  |



## Fire Dura Green PZ-J 521HGN

### 12. SECTION 12: ECOLOGICAL INFORMATION

|      |                                      |  |
|------|--------------------------------------|--|
| 12.1 | <b>Toxicity</b>                      | Low toxicity to aquatic organisms.   |
| 12.2 | <b>Persistence and degradability</b> | No information available.  |
| 12.3 | <b>Bioaccumulative potential</b>     | No information available.  |
| 12.4 | <b>Mobility in soil</b>              | Insoluble in water. The product is predicted to have low mobility in soil. |
| 12.5 | <b>Other adverse effects</b>         | None.  |

### 13. SECTION 13: DISPOSAL CONSIDERATIONS

|      |                                |   |
|------|--------------------------------|---|
| 13.1 | <b>Waste treatment methods</b> | Dispose at suitable refuse site.  |
| 13.2 | <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.

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

### 15. SECTION 15: REGULATORY INFORMATION

|        |   |  |
|--------|---|--|
| 15.1   | <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> |  |
| 15.1.1 | <b>OSHA</b><br>Toxic and hazardous substances (29 CFR 1910; Subpart Z)                                | All chemicals are not listed.  |
| 15.1.2 | <b>Title III Consolidated List of Lists</b>   | All chemicals are not listed.  |
| 15.1.3 | <b>OSPAR List of Chemicals for Priority Action</b>  | All chemicals are not listed.  |
| 15.1.4 | <b>State Right to Know Lists</b>  | Paraffin waxes and Hydrocarbon waxes (CAS No.: 8002-74-2): California, Pennsylvania, Massachusetts, Minnesota. |
| 15.1.5 | <b>TSCA (Toxic Substance Control Act)</b>   | All chemicals listed.  |
| 15.1.6 | <b>Proposition 65 (California)</b>  | All chemicals are not listed.  |
| 15.1.7 | <b>CAA 602 - Ozone Depleting Substances (ODS)</b>   | All chemicals are not listed.  |
| 15.1.8 | <b>International Agency for Research on Cancer</b>  | All chemicals are not listed.  |
| 15.1.9 | <b>National Toxicology Program</b>  | All chemicals are not listed.  |



## Fire Dura Green PZ-J 521HGN

### 16. SECTION 16: OTHER INFORMATION

**Revision Information:** Section 16 Revision Information name 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

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