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**Section 1: Product and Company information**

Product Identification: **Rigidax WI-Blue 23-8**

Company Identification: M. Argüeso & Co., Inc.  
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MSDS prepared by: Harvey Fielder, Director of Technology

Intended use: Thermoplastic fixturing compound for use in metal shaping processes.

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**Section 2: Hazards Identification**

HMIS Rating: Health: 1  
Fire: 1  
Reactivity: 0  
PPE: See section 8.  
[4-Severe; 3-Serious; 2-Moderate; 1-Slight; 0-Minimum]

**Solid Form**

As supplied in the solid form, the material presents a minimal hazard. As with all petroleum based products, care should be taken to avoid unnecessary skin contact. Take care when handling heavy packages. If any product dust is present, avoid inhalation and eye contact and be aware of the risks associated with dust cloud ignition. Pelletized product can present a slip hazard if spilled. Product will burn in a fire and release toxic fumes.

**Liquid Form**

The product is intended for use in the hot, molten state. Care should be taken to minimize or avoid exposure to product vapors when melting, conditioning, injecting and dewaxing molds. The molten material can cause severe thermal burns if it contacts the eyes and skin.

**Potential Health Effects**

Ingestion: Not believed to be toxic but may cause discomfort if swallowed.

Skin contact: The product is petroleum based so repeated skin contact may cause irritation and even dermatitis and sensitization in some individuals. Seek medical advice in this situation. Molten product can burn the skin.

Inhalation: Inhalation of solid product dust may lead to respiratory irritation. Inhalation of fumes from molten product can cause respiratory tract irritation, sore throats, dizziness, headache and nausea.

Eye contact: In a finely divided form, i.e. dust or fragments, the product will act as a physical irritant to the eye. Molten product will cause burns to the eye. Fumes from the molten product may irritate the eye.

#### Chronic / other effects

None known

### Section 3: Composition information

A blend of natural wax, chalk, hydrocarbon resin, polymer, glycerides & oil soluble dye.

As supplied, the component(s) listed below can present physical or health hazards;

Component	CAS number	OSHA PEL	SARA 313 listed?	Amount (% w/w)

### Section 4: First aid measures

Eyes: Solid product – Flush affected eye with clean running water for at least 10 minutes, holding eyelid open. Seek medical attention if pain/irritation persists.

Molten product - Flush affected eye with clean running water for at least 10 minutes, holding eyelid open. Do not remove adhering material. Seek medical attention immediately.

Skin: Solid product – Wash affected areas with mild soap and water. Remove contaminated clothing and launder before re-use.

Molten product – Cool affected areas with running water to remove heat. In general, do not remove adhering material - it may be necessary to cut through material surrounding a limb to prevent a tourniquet effect. Seek medical attention urgently.

Ingestion: Do not induce vomiting. Seek medical attention in severe cases.

Inhalation: Remove from exposure to fresh air. If breathing is difficult, a trained individual may administer oxygen. If the casualty is not breathing, a trained person should begin CPR. Get medical attention immediately.

### Section 5: Fire Fighting Measures

Combustion: If heated above its flash point (over 185°C/ 365°F, COC) in the presence of air, this product will support combustion. The product contains hydrocarbon waxes and will burn on a suitable hot, organic substrate, i.e. wood, packaging, etc.

Fire Fighting: If the fire is small and it is safe to do so, fight the fire from a safe distance, using the correct extinguisher and taking extreme care to avoid exposure to combustion products. Do not fight a large fire – obtain immediate professional assistance. Do not enter an enclosed area containing a product fire without proper protective equipment and training in its use, i.e. self contained breathing apparatus.

**Extinguishing:** Use water based foam, dry powder or carbon dioxide extinguishers. The use of liquid water is not recommended since molten wax floats and will disperse.

**Combustion:** Intense heat, smoke, carbon dioxide, carbon monoxide and complex hydrocarbons.

**Other Hazards:** As with most solid organic compounds, a high dust concentration of this product may form an explosive atmosphere, subject to ignition by heat and static discharge. This is an unlikely scenario but users should be aware of the risk.

### Section 6: Accidental Release Measures

**Solid Product:** Sweep up the spilled material. If it is clean, place in a suitable container for use. If it is contaminated, collect in a suitable container for disposal. Note that pelletized product can travel some distance when spilled. Prevent the spillage entering drainage channels. Spilled pellets also present a significant slip hazard.

**Molten Product:** Wear appropriate personal protective equipment – boots, eye protection & heat resistant gloves. Attempt to contain the spill by making dams with sand or earth. Water can be used to cool a spill but take extreme care when doing so. Allow the spill to solidify before collecting the material for disposal. Do not let molten product enter drainage channels.

### Section 7: Handling and Storage

**Storage:** Keep product in its original packaging until used. Ideally, store indoors under dry conditions, avoiding extremes of temperature (keep between 5 & 30°C / 41 & 86°F) and direct sunlight. Keep away from sources of ignition, oxidizing agents and other chemicals.

**Handling:** Do not eat, drink or smoke whilst using this product. Use only in a well ventilated area and avoid breathing fumes and dust. Avoid skin and eye contact. Avoid heating above 135°C (275°F) during normal processing (excepting dewax operations).

### Section 8: Exposure Controls & Personal Protection

The following may be released from the product in the molten state. Avoid overheating the material above 135°C (275°F).

#### Occupational Exposure limits:

Substance	CAS No.	OSHA PEL	ACGIH

#### Engineering Control Measures:

The product should only be used in well ventilated areas. Efficient local exhaust ventilation, to minimise exposure to fume & vapour from the molten product, is strongly recommended, especially in wax melting and pattern assembly areas. Local exhaust ventilation is also recommended when breaking slabs/handling pellets to minimise exposure to product dust. Mechanical methods to minimise exposure must take precedence over personal protective measures.

**Personal Protective Equipment:**

Eyes & Face: Appropriate eye protection should be worn when handling slabs and pellets, when injecting the product and when assembling patterns.

A full face shield is recommended for operations involving the transfer of molten product, i.e. refilling press reservoirs.

Skin: The use of impermeable gloves is recommended to avoid long term skin exposure to the product (and other materials used in the pattern making process, release agents, for instance).

General: A good standard of industrial hygiene should be practiced when using this product. Wash hands thoroughly before eating, drinking or smoking. Contaminated clothing should be laundered before reuse,

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**Section 9: Physical & Chemical Properties** (typical, as supplied)

Appearance:	Waxy solid
Form:	Pellets
Color:	Blue
Odor (hot):	Waxy, characteristic
Drop melting point:	81.1°C (178°F)
Specific gravity:	1.35
Solubility:	Insoluble in water, soluble in common organic solvents.
Flash point:	>185°C ( 365 °F), Cleveland Open Cup

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**Section 10: Stability & Reactivity**

Stability: Stable as supplied. The product is organic, however, and will be subject to surface oxidation – use the product within 12 months of purchase. Avoid holding the product in the molten state when not in use. Excessive thermal exposure will degrade the product. Avoid temperatures above 135°C (275°F) where possible.

Stir the molten product at all times to keep the solid filler in suspension.

Polymerization: Will not occur under normal processing conditions.

Reactivity: Not reactive under normal processing conditions.

Avoid: Sources of ignition, oxidizing agents, solvents.

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**Section 11: Toxicological Information**

As supplied, the product is not considered to be toxic. In the molten state, the product will release potentially harmful vapors – care must be taken to observe applicable exposure limits. If the precautions advised elsewhere in the document are observed, the product presents little toxicological hazard.

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**Section 12: Ecological Information**

No specific ecological information has been determined for this product. However, the product is insoluble in water and should not pose a serious threat to the environment.

Users of the product should, however, ensure that it is stored, handled and disposed of in such a manner that it is not released to the environment. Spent material from the flash fire furnace or autoclave must therefore be stored in such a manner as to prevent environmental contamination, either by solid product or rain water run-off from it.

**Section 13: Disposal Information**

Dispose of used product, unwanted product and related packaging in strict accordance with Federal, State, Local or Provincial regulations.

Wherever possible, spent material should be returned to the manufacturer, or other qualified processor, for reclamation.

**Section 14: Transportation Information**

This product is non-hazardous for transportation and is not regulated.

**Section 15: Regulatory Information**

This product contains the following components which are subject to regulatory requirements;

Ingredient	CAS Number	SARA 302 (EHS) TPQ	SARA 304 (EHS) RQ	CERCLA RQ	SARA 313
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<b>SARA 311/312</b>	<b>Mixture</b>				
<b>Acute</b>	<b>Chronic</b>	<b>Fire</b>	<b>Pressure</b>	<b>Reactivity</b>	

**Section 16: Other Information**

As of the date issued, the information and recommendations contained herein are believed to be accurate and reliable to the best knowledge of M. Argüeso & Co., Inc. However, this information is furnished without warranty, expressed or implied as to its accuracy or reliability.

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