

Issue Date 21-May-2015

Revision Date 11-Oct-2023

Version 4

## 1. IDENTIFICATION

### Product identifier

**Product Name** HPS Initiator 91

### Other means of identification

**Product Code** MS-091  
**UN/ID no.** UN 3234  
**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Curing agent.  
**Uses advised against** None known

### Details of the supplier of the safety data sheet

**Manufacturer Address**  
Hernon Manufacturing Inc.  
121 Tech Drive  
Sanford, FL 32771  
800-527-0004

### Emergency telephone number

**Company Phone Number** 407-322-4000  
**Emergency Telephone** Chemtel 800-255-3924

## 2. HAZARDS IDENTIFICATION

### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral

Category 4

### Label elements

#### Emergency Overview

#### Warning

**Hazard statements**  
Harmful if swallowed



**Appearance** No Information Available

**Physical state** Liquid

**Odor** Odorless

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other Information**

Harmful to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Chemical Name	CAS No.	Weight-%	Trade Secret
AZONITRILE	13472-08-7	10 - 30	*
2,2'-Azodi (Isobutyronitrile)	78-67-1	10 - 30	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of first aid measures**

<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash with soap and water. Flush skin with water for several minutes. Remove contaminated clothing and shoes. If irritation develops, seek medical attention. Wash clothing before reuse.
<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No Information Available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use CO2, dry chemical, or foam.

**Unsuitable extinguishing media** No Information Available.

**Specific hazards arising from the chemical**

No Information Available.

**Explosion data****Sensitivity to Mechanical Impact** None.**Sensitivity to Static Discharge** None.**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal precautions** Ensure adequate ventilation, especially in confined areas.**For emergency responders** Use personal protection recommended in Section 8.**Environmental precautions****Environmental precautions** Do not allow into any sewer, on the ground or into any body of water. See section 12 for additional ecological information.**Methods and material for containment and cleaning up****Methods for containment** Prevent further leakage or spillage if safe to do so.**Methods for cleaning up** Pick up and transfer to properly labeled containers. Transfer to unsealed drums without creating dust, and refrigerate. Contaminated floor may be flushed with water to chemical sewer. Do not vacuum. Use spark-proof equipment.**7. HANDLING AND STORAGE****Precautions for safe handling****Advice on safe handling** Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Wash thoroughly after handling. Ensure adequate ventilation, especially in confined areas.**Conditions for safe storage, including any incompatibilities****Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep at temperatures between 46°F and 82°F (8°C and 28°C).**Incompatible materials** Strong oxidizing agents. Reducing agent.**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.**Appropriate engineering controls****Engineering Controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and body protection</b>	Wear protective gloves and protective clothing. Use rubber or plastic gloves.
<b>Respiratory protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Odorless
<b>Appearance</b>	No Information Available	<b>Odor threshold</b>	No Information Available
<b>Color</b>	White		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	No Information Available	
<b>Melting point / freezing point</b>	No Information Available	
<b>Boiling point / boiling range</b>	No Information Available	
<b>Flash point</b>	No Information Available	
<b>Evaporation rate</b>	No Information Available	
<b>Flammability (solid, gas)</b>	No Information Available	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>	No information available	
<b>Lower flammability limit:</b>	No information available	
<b>Vapor pressure</b>	Negligible at room temperature	
<b>Vapor density</b>	No Information Available	
<b>Relative density</b>	1.04	
<b>Water solubility</b>	< 10 g/L	
<b>Solubility in other solvents</b>	No Information Available	
<b>Partition coefficient</b>	No Information Available	
<b>Autoignition temperature</b>	No Information Available	
<b>Decomposition temperature</b>	No Information Available	
<b>Kinematic viscosity</b>	No Information Available	
<b>Dynamic viscosity</b>	No Information Available	
<b>Explosive properties</b>	No Information Available	
<b>Oxidizing properties</b>	No Information Available	

**Other Information**

<b>Softening point</b>	No Information Available
<b>Molecular weight</b>	No Information Available
<b>VOC Content (%)</b>	No Information Available
<b>Density</b>	No Information Available
<b>Bulk density</b>	No Information Available

**10. STABILITY AND REACTIVITY****Reactivity**

Not Applicable

**Chemical stability**

Unstable with heat and, if dusty conditions exist, with static electric charges.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Incompatible materials. Keep away from heat, sparks and open flame.

**Incompatible materials**

Strong oxidizing agents. Reducing agent.

**Hazardous Decomposition Products**

Hydrogen cyanide. Nitrogen oxides (NOx). Tetramethylsuccinonitrile.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	No known effect based on information supplied.
<b>Eye contact</b>	No known effect based on information supplied.
<b>Skin contact</b>	No known effect based on information supplied.
<b>Ingestion</b>	No known effect based on information supplied.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
AZONITRILE 13472-08-7	= 982 mg/kg ( Rat )	-	> 8.9 mg/L ( Rat ) 4 h
2,2'-Azodi (Isobutyronitrile) 78-67-1	= 100 mg/kg ( Rat )	-	-

**Information on toxicological effects****Symptoms** No Information Available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Sensitization</b>	No Information Available.
<b>Germ cell mutagenicity</b>	No Information Available.
<b>Carcinogenicity</b>	No Information Available.
<b>Reproductive toxicity</b>	No Information Available.
<b>STOT - single exposure</b>	No Information Available.
<b>STOT - repeated exposure</b>	No Information Available.
<b>Aspiration hazard</b>	No Information Available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	1,278.20 mg/kg
<b>ATEmix (dermal)</b>	19,959.94 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	1.50 mg/l

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Harmful to aquatic life with long lasting effects

**Persistence and degradability**

No Information Available.

**Bioaccumulation**

No Information Available.

**Other adverse effects**

No Information Available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

<b>Disposal of wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated packaging</b>	Do not reuse container.

**14. TRANSPORT INFORMATION****DOT**

<b>UN/ID no.</b>	UN 3234
<b>Proper shipping name</b>	Self-reactive solid type C, temperature controlled
<b>Hazard Class</b>	4.1
<b>Packing Group</b>	II
<b>Special Provisions</b>	None

**IATA**

<b>UN/ID no.</b>	Not Permitted
<b>Hazard Class</b>	Not Permitted

**IMDG**

<b>UN/ID no.</b>	UN 3234
<b>Proper shipping name</b>	Self-reactive solid type C, temperature controlled
<b>Hazard Class</b>	4.1
<b>Packing Group</b>	II

**15. REGULATORY INFORMATION****International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

All ingredients are on the inventory or are exempt from listing.

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire hazard</b>	Yes
<b>Sudden release of pressure hazard</b>	Yes
<b>Reactive Hazard</b>	Yes

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2,2'-Azodi (Isobutyronitrile) 78-67-1	X	X	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not Applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b><u>NFPA</u></b>	Health hazards 2	Flammability 2	Instability 2	Physical and Chemical Properties Not Applicable Personal protection B
<b><u>HMIS</u></b>	Health hazards 2	Flammability 2	Physical hazards 2	

Prepared By SDS coordinator

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Revision Note

No Information Available

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing,

storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**