



# SAFETY DATA SHEET

## Section 1. IDENTIFICATION

**Product Name:** ISO 2000, ISO 3500, ISO 4000, ISO 6000

**Common Name / Synonyms:** Modified polyisocyanurate rigid cellular plastic

**Recommended Use:** Thermal insulation / structural rigid foam core

**Restrictions on Use:** None specified

**Manufacturer:** ISO Technologies, Inc., 200 Milliken Dr., Hebron, OH 43025

**Telephone / Fax:** (740) 928-0084

**Emergency Phone Number:** (740) 928-0084

## Section 2. HAZARDS IDENTIFICATION

**OSHA GHS Classification:** Not classified as hazardous under 29 CFR 1910.1200. (Note: Cutting, grinding, or other fabrication operations may generate combustible dust).

**Signal Word:** Warning

**Pictogram:** None

**Hazard Statement(s):** May form combustible dust concentrations in air during processing or fabrication.

**Precautionary Statement(s):**

**Prevention:** Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Prevent dust accumulation. Provide adequate ambient air exchange during fabrication.

**Response:** Flush eyes with water if dust exposure occurs. Wash exposed skin with soap and water.

**Storage:** Store in a cool, dry area away from sources of ignition.

**Disposal:** Dispose of contents/container in accordance with local, state, and federal regulations.

### Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical / Component Name                        | CAS Number  | Weight % |
|--------------------------------------------------|-------------|----------|
| Modified Polyisocyanurate Rigid Cellular Plastic | Proprietary | 85 – 95% |
| Hydrocarbon Blowing Agent (Pentane isomers)      | Mixture     | 2 – 7%   |
| Proprietary Flame-Retardant Additive             | Proprietary | 3 – 8%   |

### Section 4. FIRST-AID MEASURES

**Eye Contact:** Flush eyes thoroughly to remove dust particles. Seek medical attention if irritation persists.

**Skin Contact:** Seek first aid or medical attention as needed.

**Inhalation:** Move person to fresh air if airborne dust or blowing agent concentrations cause discomfort.

**Ingestion:** Ingestion is unlikely due to physical state. If swallowed, physical blockage may occur.

### Section 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Water fog, carbon dioxide ( $CO_2$ ), dry chemical, fine water spray, or foam.

**Specific Hazards Arising from Chemical:** Combustible polymer solid. Mechanical processing (cutting/sawing) releases trapped blowing agents that can form flammable atmospheres in areas without an adequate ambient air exchange.

**Hazardous Decomposition Products:** Under fire conditions, polymer decomposes yielding carbon monoxide ( $CO$ ), carbon dioxide ( $CO_2$ ), carbon, hydrogen halides, and unidentified toxic compounds.

**Protective Equipment for Firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and full protective bunker gear.

## Section 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear proper PPE. Eliminate ignition sources in dusty conditions.

**Environmental Precautions:** Prevent material from entering soil, ditches, sewers, or waterways.

**Clean-up Methods:** Sweep or vacuum dust and scrap foam into properly labeled waste containers for disposal. Avoid creating airborne dust clouds.

## Section 7. HANDLING AND STORAGE

**Handling:** Ensure adequate ambient air exchange during cutting, grinding, or machining to keep blowing agent and dust levels below exposure limits. Keep away from open flames and spark sources.

**Storage:** Store in a cool, dry area. Protect against open flames, sparks, and high heat sources.

## Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limits:**

**Isopentane:** OSHA PEL / ACGIH TLV: 600 ppm

**n-Pentane:** OSHA PEL / ACGIH TLV: 600 ppm

**Engineering Controls:** Good ambient air exchange.

**Eye/Face Protection:** Safety glasses are recommended with certain processes.

**Skin Protection:** Standard body-covering work clothing.

**Respiratory Protection:** When respiratory protection is required for certain applications, use a NIOSH-approved dust respirator.

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Rigid cellular plastic solid of various colors

**Odor:** None

**pH:** Not applicable

**Melting / Freezing Point:** Not applicable

**Boiling Point / Range:** Not applicable

**Flash Point:** Not applicable

**Evaporation Rate:** Not applicable

**Flammability (solid, gas):** Combustible solid

**Vapor Pressure:** Not applicable

**Vapor Density:** Not applicable

**Relative Density / Specific Gravity:** Not applicable

**Solubility in Water:** Insoluble

**Auto-ignition Temperature:** 850°F (454°C)

**Decomposition Temperature:** > 482°F (250°C)

## Section 10. STABILITY AND REACTIVITY

**Reactivity:** Non-reactive under normal handling conditions.

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** None under standard processing.

**Conditions to Avoid:** Avoid sustained temperatures above 300°F (149°C) and direct exposure to open flames or ignition sources.

**Incompatible Materials:** Avoid contact with strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, hydrogen halides, and organic fragments under fire conditions.

## Section 11. TOXICOLOGICAL INFORMATION

**Routes of Exposure:** Eye contact, skin contact, dust inhalation.

**Acute Effects:** Mechanical eye irritation; dust inhalation may cause mild upper respiratory tract irritation.

**Chronic Effects:** Repeated dust exposures are not expected to cause systemic toxicity or permanent lung injury.

**Carcinogenicity:** Ingredients are not listed as carcinogens by IARC, NTP, or OSHA.

## Section 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Inert solid; not expected to be acutely toxic to aquatic or terrestrial life.

**Persistence & Degradability:** Polymeric solid; highly inert in the environment. Surface photo-degradation occurs under direct sunlight.

**Bioaccumulative Potential:** No bioconcentration expected due to high molecular weight ( $MW > 1000$ ).

**Mobility in Soil:** Solid material; remains in soil or floats in aquatic environments.

## Section 13. DISPOSAL CONSIDERATIONS

**Waste Disposal:** Dispose of in accordance with applicable Federal, State, and local environmental regulations. Unused material may be sent to an approved landfill or permitted incineration facility. Do not dump into sewers, ground, or any body of water.

## Section 14. TRANSPORT INFORMATION

**U.S. DOT:** Not regulated as a hazardous material for bulk or non-bulk transport.

**UN / Proper Shipping Name:** Not applicable

## Section 15. REGULATORY INFORMATION

**OSHA Status:** This product is classified as a non-hazardous article/solid under 29 CFR 1910.1200.

**TSCA:** All chemical components are listed on the TSCA Inventory.

**SARA 313:** Contains no toxic chemicals subject to reporting requirements under SARA Title III Section 313.

## Section 16. OTHER INFORMATION

**Issue Date:** May 28, 2015

**Revision Date:** July 28, 2026

**Revision Summary:** Document reviewed and reformatted to comply with OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS Rev 7). No changes to chemical formulation or hazard data.

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