

# Safety Data Sheet

with reference to OSHA Hazard Communication Standard (HCS) published in Federal Register 77 FR 17574 – March 2012

Status: 05/04/2023

## Non-Halogen Flame Retardant Volara®

All Colors, All Densities

*Non-Halogen Flame Retardant Volara Grades:*

*LHR, LFP, XFS, AD*

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

<b>Product Name:</b>	Volara
<b>Synonyms:</b>	Crosslinked Polyolefin Foam
<b>Use of the Product:</b>	Heat Resistant, Low Flammability Transportation Applications
<b>Manufacturer:</b>	Sekisui Voltek, LLC 17 Allen Ave. Coldwater, MI 49036 833-517-1627
<b>Emergency information:</b>	<b>Call CHEMTREC: +1 703-741-5970 / 1-800-424-9300</b>

### SECTION 2: HAZARD(S) IDENTIFICATION

<b>Hazard Designation:</b>	None
<b>Additional Information:</b>	Molten polymer will cause thermal burns to skin. When heated irritating fumes may be produced. Inhalation of fumes and vapors generated by heating foam may cause soreness or irritation in the nose and throat. Exposure to dust may cause irritation.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<b>Description:</b>	Expanded, closed cell physically crosslinked foam consisting of Polyolefins and Colorants.
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### SECTION 4: FIRST AID MEASURES

<b>In Case of Eye Contact:</b>	Flush particles from eyes with clean flowing water or eye wash solution for several minutes. Seek medical attention if discomfort persists.
<b>In Case of Skin Contact:</b>	If heated material contacts the skin, immediately quench with cool flowing water. If foam/polymer sticks to skin, <i>do not peel</i> , seek immediate medical attention. If the burn is severe, obtain immediate emergency medical attention.
<b>In Case of Ingestion:</b>	If ingested, seek medical attention.

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**In Case of Inhalation:** If symptoms are experienced, move affected individuals to fresh air.  
Obtain medical attention if breathing difficulty persists.

### SECTION 5: FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** SMALL FIRE: Use dry chemical, CO2, water spray  
LARGE FIRES: Water Spray

**Hazardous Combustion Products:** Typical Polyolefin combustion products: Carbon monoxide, olefinic and paraffinic compounds, traces amounts of organic acids, ketones, aldehydes and alcohols may be formed.

**Protective Equipment/Clothing:** Wear an approved positive pressure self-contained breathing apparatus and firefighter turnout gear.

**INSTRUCTIONS:** Use flooding quantities of water until well after fire is extinguished.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** See Section 8, EXPOSURE CONTROLS/PERSONAL PROTECTION

**Environmental Precautions:** Pick up and retain for recycle or disposal.

**Methods for Cleaning Up:** Pick up mechanically.

### SECTION 7: HANDLING AND STORAGE

**Safe Handling:** Keep scrap material off walking surfaces as this can create slipping hazards. Avoid accumulation of dust in enclosed space. Use in well-ventilated area. Use good housekeeping practices during storage, transfer, and handling.

**Safe Storage:** Recommend storage indoors with adequate fire sprinkler protection. Store away from excessive heat, ignition sources and oxidizing agents. Keep poly-bag container closed to prevent moisture exposure, soiling and contamination. Foam rolls can be heavy, stacking rolls is not recommended.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**General Health Controls:** Ventilate storage and use areas to prevent accumulation of dust and fumes.

#### Personal Protection:

**Eye Protection:** Safety glasses are recommended.

**Skin Protection:** Not normally considered a skin hazard under anticipated conditions of normal use.  
To protect against contact with molten product use suitable protection, gloves and clothing.

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**Respiratory Protection** Use appropriate respiratory protection.

**Hand Protection:** Gloves are recommended for further processing like sawing, cutting or thermoforming.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Solid
<b>Color:</b>	According to product color.
<b>Odor:</b>	Faint, mild hydrocarbon odor.
<b>Melting Point:</b>	104 - 138 °C (219 - 280 °F)
<b>Boiling Point:</b>	Not applicable
<b>Flash Point:</b>	Not applicable.
<b>pH:</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable
<b>Viscosity:</b>	Not applicable
<b>Specific Gravity:</b>	0.02 to 0.40 ( water = 1 )
<b>Water Solubility:</b>	Insoluble
<b>Evaporation Rate:</b>	Not applicable

### SECTION 10: STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	The product is stable.
<b>Conditions to Avoid:</b>	Avoid sparks, open flame or excessive heat. Avoid contact with oxidizers.
<b>Incompatibility with:</b>	Material may be softened by some hydrocarbons. Reacts with fluorine gas.

### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Product Summary:</b>	Volara is not considered to be toxic to humans or animals.
<b>ACUTE ORAL EFFECTS:</b>	None Known.
<b>SKIN EFFECTS:</b>	None Known.
<b>Reproductive / Development Effects</b>	None known.

### SECTION 12: ECOLOGICAL INFORMATION

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**Ecotoxicity:** Ecotoxicity is expected to be minimal based on the low water solubility of polymers.

**Environmental Fate:** Unknown.

**Bioaccumulation:** Unknown.

## SECTION 13: DISPOSAL CONSIDERATIONS

Use only licensed transporters and permitted facilities for waste disposal. Recycle whenever possible.

## SECTION 14: TRANSPORT INFORMATION

**Proper Shipping Name:** Crosslinked Polyolefin Foam

**DOT Hazard Class:** Not Regulated

**UN/NA ID:** Not Regulated

**Marine Pollutant:** Unknown

**Packing Group:** Not applicable

**NAER Guidebook:** Not Regulated

**Labels:** Not Regulated

**DOT Status:** Not Regulated

## SECTION 15: REGULATORY INFORMATION

### California Proposition 65

This product does not expose citizens of the state of California to substances known to cause cancer and/or reproductive toxicity.

## SECTION 16: OTHER INFORMATION

### DISCLAIMER OF RESPONSIBILITY:

The data in this safety data sheet describes the safety requirements of our product based on our current level of knowledge and may not be considered to guarantee any product properties and it is sufficient for **United Nations' Globally Classification and Labeling of Chemicals (GHS) standard Harmonized System of Classification and Labeling of Chemicals (GHS) standard**. However, the information is provided without any warranty, expressed or implied, regarding it's correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this MSDS information may not be applicable.