

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ENCAP Encapsulants for Photovoltaic Modules

INTRODUCTION

Enrich ENCAP Solar Encapsulants Film is a fast cure encapsulants that is designed to work with PV modules with protection against UV-aging and weathering while helping to ensure maximum amount of visible light transmission to solar cells.

FEATURES

- Conformable and flexible for ease of lamination
- Durable bonding strength with both glass and backsheet
- Excellent UV and damp-heat stability
- Very low shrinkage rate
- High light transmission

STORAGE

Shelf life is 6 months under proper storage conditions. The product should be stored indoor with the temperature controlled between 0°C–30°C and relative humidity below 60%, avoiding direct sunlight. The product should not be placed near any heating equipment or exposed in a dusty place. Check the package box of stored product before unfolding. The product should be used up as soon as possible after the package is opened. The unused product should be properly sealed with original package or similar package.

PRECAUTIONARY INFORMATION

Refer to Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information.

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: The product is supplied as a film on a roll and is considered a “manufactured article.”

PHYSICAL STATE: solid

COLOR: translucent to white

ODOR: faint

FIRST AID MEASURES

ENCAP Encapsulants

GENERAL ADVICE: Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid.

SKIN: If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and polymer. Do not attempt to peel polymer from skin. Obtain immediate emergency medical attention if burn is deep or extensive.

INHALATION: If symptoms are experienced, move victim to fresh air. **EYES:** Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists.

INGESTION: Adverse health effects due to ingestion are not anticipated.

FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

CLASSIFICATION: Not Classified. Polymer will burn but does not easily ignite.

FLASH POINT: No Data Available. Flash point is anticipated to be greater than 200°C / 400°F

LOWER EXPLOSION LIMIT: Not applicable.

UPPER EXPLOSION LIMIT: Not applicable.

EXTINGUISHING MEDIA:

SMALL FIRE: Use dry chemical, CO₂, water spray or regular foam.

LARGE FIRES: Use large quantities of water spray.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

Wear an approved positive pressure self-contained breathing apparatus and firefighter turnout gear.

HAZARDOUS COMBUSTION PRODUCTS:

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide, Carbon dioxide.

TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: INGESTION: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. May cause choking if swallowed.

SKIN CORROSION/IRRITATION: Mechanical injury only. Under normal processing conditions, material is heated to elevated temperatures; contact with the material may cause thermal burns.

SENSITIZATION: SKIN: No relevant information found. **RESPIRATORY:** No relevant information found.

ENCAP Encapsulants

GENETIC TOXICOLOGY: No relevant information found.

DISPOSAL CONSIDERATIONS

Dispose of as hazardous waste in compliance with local and national regulations. Comply with federal, state, or local regulations for disposal.

TRANSPORT INFORMATION

All modes of transport its not classified as dangerous material

REGULATORY INFORMATION

No hazard warning label required.

DISCLAIMER

The information contained in the Safety Data Sheet is at the date of its issuance to the best of our knowledge correct according to the data available to us. However, since the data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, neither SPECIALIZED TECHNOLOGY RESOURCES, INC. nor any of its affiliates, MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use. This information is for use by technically skilled persons at their own discretion and risk, and does not relate to the use of any product in combination with any other substance or in any process. The above information gives typical properties only and is not to be used for specification purposes.