



SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS, OSHA 29CFR 1910.1200

Section 1: Chemical Product and Company Identification

MANUFACTURER'S NAME

Isola Group
San Tan II Corporate Center
3100 West Ray Road
Chandler, Arizona 85226

EMERGENCY TELEPHONE

INFOTRAC U.S.-Canada: 800-535-5053

Safety Data Sheet Competent Person:

Information: 480-812-2561
Neil Smith: neil.smith@isola-group.com

REVISION DATE: October 3, 2016

PRODUCT NAME:

IS410 PREPREG

FORMULA:

N/A (Product is an Article)

PRODUCT USE:

Resin impregnated woven fiberglass used in the manufacture or copper-clad laminate for printed circuit boards.

Section 2: Hazards Identification

Regulation (EC) No 1907/2006 and 29 CFR 1910.1200

GHS Hazard Classification

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Hazard Pictogram(s):

None

Signal word:

None

Hazard Statement:

None

Precautionary Statement(s):

None

Other Hazards:

No Data Available

Section 3: Composition, Information on Ingredients

| Product Composition | CAS No. | EC Inventory No. | Approx. % | Hazard Statements |
|--|------------|------------------|-----------|-------------------|
| Non-Respirable Woven Continuous Filament Glass Fiber | 65997-17-3 | 266-046-0 | 35-60 | None |
| Reacted Epoxy-Novolac Resin Matrix | xxx-xx-xxx | - | 40-65 | None |

Section 4: First Aid Measures

INHALATION:

Remove to fresh air. If not breathing, provide artificial respiration. Get medical attention if necessary and treat symptomatically.

SKIN CONTACT:

Wash skin with soap and water. Get medical attention if irritation persists.

EYE CONTACT:

Flush eyes with plenty of water as a precaution. If persistent irritation develops, seek medical attention.

INGESTION:

Rinse mouth thoroughly with water. Never give anything to an unconscious person. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed:

No Data Available. Treat symptomatically.



Section 5: Fire-fighting Measures

| | |
|-------------------------------------|---|
| FLASH POINT: | Not applicable |
| FLAMMABLE LIMITS IN AIR (% by vol): | Not applicable |
| EXTINGUISHING MEDIA: | Foam, Dry Chemical Powder, or Carbon Dioxide |
| SPECIAL FIREFIGHTING PROCEDURES: | Wear self-contained breathing apparatus for firefighting if necessary. |
| UNUSUAL FIRE AND EXPLOSION HAZARDS: | Thermal decomposition or combustion may give off toxic fumes, gases and vapors. |

Section 6: Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Prevent dust formation. Ensure adequate ventilation and isolate area. Wear proper protective equipment as specified in Section 8. Do not breathe dust or fumes/vapor from heated product.

ENVIRONMENTAL PRECAUTIONS:

No special environmental precautions required.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANUP:

Wear proper protective equipment as specified in Section 8: Exposure Controls/Personal Protection.
If material is released or spilled, sweep, shovel or vacuum material and place in closed containers for subsequent reuse or disposal.

DISPOSAL METHOD:

Disposal should be made in accordance with federal, state and local regulations.

REFERENCE TO OTHER SECTIONS: See Sections 8 and 13.

Section 7: Handling and Storage

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in a cool dry place. Avoid excessive heat and ignition sources. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

INFORMATION ON EMPTIED CONTAINER: Not applicable

SPECIFIC USES: Resin impregnated woven fiberglass used in the manufacture or copper-clad laminate for printed circuit boards.

Section 8: Exposure Controls/Personal Protection

EXPOSURE CONTROLS:

VENTILATION:

Provide general ventilation and local exhaust ventilation to meet TLV requirements of individual ingredients and to control dusting conditions. If cutting or rimming with power equipment then dust collectors and local ventilation should be used. Avoid unnecessary exposure to dust and handle with care. Keep work area clean of dust and fibers by using an industrial vacuum cleaner with high efficiency filter or wetting down area with water. Never use compressed air and avoid dry sweeping.

EYE PROTECTION:

Wear safety glasses with side shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

RESPIRATORY PROTECTION:

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use a NIOSH/MSHA or European Standard (EN) approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the CEN European Standards (EU).



PROTECTIVE GLOVES:

Glove use is recommended. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with glove contamination. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

SKIN PROTECTION:

Suitable protective clothing to prevent skin contact is recommended.

WORK/HYGIENE PRACTICES:

Provide good personal hygiene after handling. Avoid contact with eyes. Wash hands after handling.

OTHER EQUIPMENT:

Make safety shower, eyewash stations, and hand washing equipment available in the work area.

CONTROL PARAMETERS:

None

Section 9: Physical and Chemical Properties

APPEARANCE - COLOR:

PHYSICAL STATE:

Solid

ODOR:

N/A

PRODUCT CRITERIA

| | PRODUCT CRITERIA |
|--|---------------------------|
| ODOR THRESHOLD | Not Available for product |
| PH | Not Available for product |
| FLASH POINT: | Not Available for product |
| LOWER EXPLOSIVE LIMIT; UPPER EXPLOSIVE LIMIT | Not Available for product |
| FLAMMABILITY (Solid, gas) | Not Available for product |
| EXPLOSIVE PROPERTIES | Not Available for product |
| OXIDIZING PROPERTIES | Not Available for product |
| SPECIFIC GRAVITY (@25 °C): | Not Available for product |
| EVAPORATION RATE: | Not Available for product |
| % VOLATILE by VOLUME | Not Available for product |
| PARTITION COEFFICIENT | Not Available for product |
| AUTO IGNITION TEMPERATURE | Not Available for product |
| DECOMPOSITION TEMPERATURE | Not Available for product |
| BOILING POINT: | Not Available for product |
| MELTING POINT: | Not Available for product |
| VAPOR PRESSURE | Not Available for product |
| VAPOR DENSITY (AIR = 1) | Not Available for product |
| SOLUBILITY IN WATER: | Insoluble |
| WATER SOLUBILITY IN THE SOLVENT | Not Available for product |
| FREEZING POINT: | Not Available for product |
| VISCOSITY | Not Available for product |
| VOC CONTENT | Not Available for product |

OTHER INFORMATION

None

Section 10: Stability and Reactivity

REACTIVITY: Stable under normal storage conditions.

CHEMICAL STABILITY: Stable under recommended storage conditions



POSSIBILITY OF HAZARDOUS REACTIONS: No data available.

CONDITIONS TO AVOID: Exposure to excessive heat, flames, sparks and other ignition sources as well as moist air and water. Avoid incompatible materials. Avoid excessive dust generation.

INCOMPATIBLE MATERIALS: Avoid contact with strong oxidizing agents, strong acids, strong bases, mercaptans and amines.

HAZARDOUS DECOMPOSITION PRODUCTS: Dense smoke, acrid vapors and fumes, aliphatic and aromatic hydrocarbons of variable composition, CO_x, NO_x. Decomposition products depend on temperature, air supply and other materials that may be present. Uncontrolled exothermic reactions of epoxy resins release phenolics, carbon monoxide and water.

Section 11: Toxicological Information

There is no toxicological information available for the product (article) itself.

Section 12: Ecological Information

There is no ecological information available for the product (article) itself.

Section 13: Disposal Considerations

Dispose according to local, state, and national regulations.

Section 14: Transport Information

DOT TRANSPORT: Not Regulated

ADR = International Carriage of Dangerous Goods by Road Not Regulated

RAIL TRANSPORT: Not Regulated

SEA TRANSPORT: IMDG Not Regulated

AIR TRANSPORT: IATA/ICAO Not Regulated

Section 15: Regulatory Information

OSHA HAZARD COMMUNICATION STANDARD

This product is not a "Hazardous Chemical" as defined by 29 CFR 1910.1200.

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

This product is in compliance with all rules, regulations, and orders of TSCA.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III (EPCRA) SECTIONS 311 AND 312: None

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III (EPCRA) SECTION 313
SUPPLIER NOTIFICATION: None

CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.
The California proposition 65 chemical(s) contained in this product are: None.



CANADA:

This MSDS contains all of the information required by the Controlled Products Regulations (CPR).

WHMIS-INFORMATION:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR), SOR/88-66. The classes of controlled products listed in the CPR, Section 32, Part IV, have been reviewed and based on Professional Judgment this product has been determined to not be WHMIS controlled.

EUROPEAN UNION:

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Directive 1999/45/EC, Regulation (EC) No 1272/2008 on classification, labeling and packaging (CLP) of substances and mixtures.

WGK: 0 (German Federal Water Management Act) (Water Hazard Class)

Section 16: Other Information

Revision Comments: Initial version November 10, 2005
Revision Number: 7 (October 3, 2016)
Previous Revisions: November 10, 2005 (1); January 19, 2007 (2); January 20, 2009 (3); August 23, 2010 (4); September 27, 2013 (5); November 19, 2015 (6)
Information Sources: REACH, OSHA 29CFR 1910.1200, Manufacturer SDSs.

FOR INDUSTRIAL USE ONLY

DISCLAIMER: The information contained in this MSDS relates specifically to the product as a whole and may not be valid if used in combination with other materials or in any specified process. The information on IS410 PREPREG is accurate to the best of our knowledge but does not purport to be all inclusive and should only be used as a general guide. It is the user's responsibility to ensure that the product will be suitable for particular usage. The user assumes all responsibility for compliance with applicable Federal, State and Local Regulations. We do not accept liability for damage or loss that may occur from the use of this information.