

VERTEC TPE FILM PRODUCTS SDS

FOR VRV & PFV

SDS

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ST-4 & ST-6

SYNONYMS: Styrene-Ethylene/Butylene-Styrene Copolymer Compound

MANUFACTURER: Gel-Pak

ADDRESS: 31398 Huntwood Avenue, Hayward, CA 94544-7818

EMERGENCY PHONE: 510-576-2220

FAX PHONE: 510-576-2282

CHEMICAL NAME: Proprietary

CHEMICAL FAMILY: Proprietary

CHEMICAL FORMULA: Proprietary

PREPARED BY: Chris Lundeen

SECTION 1 NOTES: None

GEL-PAK

31398 Huntwood Avenue, Hayward, CA 94544

Toll-Free 888-621-4147 **Phone** 510-576-2220 **Fax** 510-576-2282

Website www.gelpak.com

Division of

DELPHON

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

ROUTES OF ENTRY:

POTENTIAL HEALTH EFFECTS

EYES: Direct contact may cause temporary redness and discomfort.

SKIN: No irritation expected from short term exposure.

INGESTION: Product is considered to have a low degree of acute oral toxicity.

INHALATION: Product is not expected to cause irritation to the nose, throat, or respiratory tract.

ACUTE HEALTH HAZARDS: No known acute hazards during normal use.

CHRONIC HEALTH HAZARDS: No known chronic hazards during normal use.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Preexisting eye, skin, and respiratory disorders may be aggravated by exposure to this product.

CARCINOGENICITY

OSHA N/A ACGIH: N/A NTP: N/A IARC:

OTHER: N/A

NFPA (National Fire Protection Agency) Ratings:

Health: 0

Flammability: 1

Instability/Reactivity: 0

SECTION 2 NOTES:

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for detailed toxicology information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

CAS NO.	% WT	% VOL	SARA 313 REPORTABLE
Proprietary formulation	N/A	N/A	N/A

ppm	mg/m ³
-----	-------------------

OSHA PEL-TWA: N/A

OSHA PEL STEL : N/A

OSHA PEL CEILING: N/A

ACGIH TLV-TWA: N/A

ACGIH TLV STEL: N/A

ACGIH TLV CEILING: N/A

SECTION 3 NOTES:

This material does not contain any chemicals considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and/or EU Regulation (EC) No 1272/2008.

SECTION 4: FIRST AID MEASURES

EYES:

Flush eye(s) with water. If irritation occurs, obtain medical attention.

SKIN:

No health effects expected. If irritation does occur flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

INGESTION:

If irritation or discomfort occurs, obtain medical advice.

INHALATION:

If symptoms are experienced remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

Treat according to person's condition and specifics of exposure.

SECTION 4 NOTES:

None

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER:

(% BY VOLUME) LOWER: None determined

FLASH POINT:

>250°F (>121°C)

AUTOIGNITION TEMPERATURE:

Not determined

NFPA HAZARD CLASSIFICATION

HEALTH: 0 FLAMMABILITY: 1 REACTIVITY: 0
 OTHER: 0

HMIS HAZARD CLASSIFICATION

HEALTH: N/A FLAMMABILITY: N/A REACTIVITY: N/A
 Protection: N/A

EXTINGUISHING MEDIA:

Use dry chemical, foam, CO₂, or water spray.

SPECIAL FIRE FIGHTING PROCEDURES:

Material will not burn unless preheated. Do not enter confined fire space without bunker gear (helmet with face shield, bunker coat, gloves and rubber boots) including a positive pressure NIOSH approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: None

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: No special measures required. Treat as ordinary non-hazardous solid waste.

SECTION 6 NOTES: None

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Product can accumulate static charges when handled. Equipment should provide a means of dissipating charge.

OTHER PRECAUTIONS: Use reasonable care and store away from oxidizing materials.

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: None

VENTILATION : Adequate ventilation and/or engineering controls are required when the product is heated for processing.

RESPIRATORY PROTECTION: No respiratory protection should be needed.

EYE PROTECTION: Avoid contact with eyes, safety glasses are recommended.

SKIN PROTECTION: Gloves recommended. Washing before mealtime and end of shift is adequate.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practices.

EXPOSURE GUIDELINES: There are no components with workplace exposure limits.

SECTION 8 NOTES: None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Colorless
ODOR:	Odorless
PHYSICAL STATE:	Solid
pH:	Not determined
BOILING POINT:	>212°F (>100°C)
MELTING POINT:	Not determined
FREEZING POINT:	Not determined
VAPOR PRESSURE (mmHg):	Not determined
VAPOR DENSITY (AIR = 1):	Not determined
SPECIFIC GRAVITY (H ₂ O = 1):	0.8g
EVAPORATION RATE:	Not determined
SOLUBILITY IN WATER:	Negligible
PERCENT SOLIDS BY WEIGHT:	Not determined
PERCENT VOLATILE:	Not determined
VOLATILE ORGANIC COMPOUNDS (VOC):	Not determined
MOLECULAR WEIGHT:	Not determined
VISCOSITY:	Not determined

SECTION 9 NOTES:

The above information is not intended for use in preparing product specifications.

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): In processing, do not allow the temperature to exceed 550°F. Maintain fire watch if 550°F is reached.

INCOMPATIBILITY (MATERIAL TO AVOID): Avoid contact with strong oxidizers.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: At processing temperatures, some degree of thermal degradation will occur. Although highly dependent on temperature and environmental conditions, a variety of decomposition products may be present ranging from simple hydrocarbons (such as methane and propane), to toxic/irritating gases (carbon monoxide, carbon dioxide, acrolein, ketones, aldehydes, and acids). See Special Precautions.

HAZARDOUS POLYMERIZATION: None

CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: No known applicable information.

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No known applicable information.

SECTION 12 NOTES: None

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Place in appropriate waste disposal container in compliance with federal, state and local regulations.

RCRA HAZARD CLASS: N/A

SECTION 13 NOTES: Not classified as hazardous waste under 40 CFR 261.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

Not subject to DOT regulations.

WATER TRANSPORTATION

Not subject to IMDG code.

AIR TRANSPORTATION

Not subject to IATA regulations.

OTHER AGENCIES:

N/A

SECTION 14 NOTES:

None

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Some of the components of this product are listed on the EPA/TSCA inventory of chemical substances.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):
None

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):
None

311/312 HAZARD CATEGORIES: None

313 REPORTABLE INGREDIENTS: None

STATE REGULATIONS:

Follow state or local regulatory requirements for reporting

California Proposition 65 – This product does not contain any chemical known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL REGULATIONS:

Follow any applicable international regulatory requirements.

SECTION 15 NOTES:

None.

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: None

PREPARATION INFORMATION: None

DISCLAIMER:

The information contained herein is based on the data available to us and is believed to be correct; however, Delphon Ind. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. Delphon

Ind. assumes no responsibility for injury from the use of the product described herein.