

MATERIAL SAFETY DATA SHEET (MSDS)

MICRO-SEAL A (Seal-Tite Sealant)

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Seal-Tite
International
Engineered Sealing Solutions

Seal-Tite Sealant

STI MSDS Number 011

Micro-Seal A

Revision Date: November 5, 2007

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|--------------------------|---|----------------------------|------------------------|
| Manufacturer: | Seal-Tite International 500 Deer Cross Drive Madisonville, LA 70447 | Tradename: | Micro-Seal A |
| Contact: | Vic Groomer | Product Identifier: | Micro-Seal A |
| Emergency Number: | (888) 674-3385 | General Use: | Low Viscosifying Resin |
| Office Number: | (985) 875-1292 | Chemical Family: | Epoxy Resin |
| FAX Number: | (985) 875-0687 | | |
| E-Mail: | msds@seal-tite.com | | |
| Website: | www.seal-tite.com | | |

Section 2: COMPOSITION / INFORMATION ON INGREDIENTS

| Component | Percent Contained | CAS Number | OSHA PEL | ACGIH TLV |
|--|-------------------|------------|----------|-----------|
| Solvent Free Bisphenol A-Based Epoxy Resin | N/A | 25068-38-6 | N/A | N/A |

"TLV" means the Threshold Limit Value exposure (eight-hour, time-weighted average, unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists. "STEL" indicates a short-term exposure limit. "PEL" indicates the OSHA Permissible Exposure Limits. "N/E" indicates that no exposure limit has been established. "N/A" indicates not applicable.

Material is not known to contain Toxic Chemicals under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Section 3: HAZARD IDENTIFICATION

Appearance, form, odor: Clear, light-red viscous liquid with aromatic odor

Route of Entry: Inhalation, Ingestion, Skin Absorption

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| Target Organ: | Amines contained in product are an eye, respiratory, and skin irritant, skin and respiratory sensitizer. |
| Inhalation: | May cause nasal, throat irritation with a choking sensation. Neurological disturbances, pneumonitis, headache, nausea, vomiting, and abdominal pain may occur after extreme exposure. |
| Skin Contact: | Direct contact may cause severe irritation, sore throat, abdominal pain and diarrhea. |
| Eye Contact: | Vapors may cause irritation and conjunctivitis. Direct contact may cause irritation, pain, lacrimation, and possible corneal damage and opacity. |
| Ingestion: | Direct contact may cause severe irritation, sore throat, abdominal pain and diarrhea. |

SECTION 4: FIRST AID MEASURES

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| Inhalation: | Move victim to fresh air. If breathing is difficult administer oxygen. If breathing has stopped, perform artificial respiration. If irritation occurs, seek medical attention. |
| Skin Contact: | Immediately flush skin with plenty of soap and water for at least 15 minutes and get medical attention. Remove all contaminated clothing. If irritation occurs, seek medical attention. |
| Eye Contact: | Flush eye with clean water for at least 15 minutes while gently holding eyelids open. Seek medical attention immediately after flushing. |
| Ingestion: | Consult a physician immediately. DO NOT induce vomiting. Remove by gastric lavage. |
| Medical conditions aggravated by exposure: | Any respiratory or skin condition. |

SECTION 5: FIRE-FIGHTING MEASURES

| | | | |
|---|--|----------------|-----------------------|
| Extinguishing Media: | CO ₂ , Dry Chemical, Foam and Sand. Do not use water on fire, but only to cool sealed containers. | | |
| Flash Point (F): | >220° F | Method: | Abel Pensky |
| Explosive limits in air (percent): | --- | Lower: | N/D Upper: N/D |

Avoid breathing toxic and irritating vapors. If exposed to a heat source, closed containers can build pressure leading to a sudden release. As in any fire, wear a pressure demand MSHA / NIOSH approved self-contained breathing apparatus (SCBA), and full protective bunker gear. For large fires, apply foam according to manufacturer's specifications. For small fires, utilize carbon dioxide or dry chemical extinguishers. Keep containers cool by applying water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

| | |
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| Spill control: | Ventilate area. Avoid breathing vapors. Remove any ignition sources. Avoid eye and skin contact. |
| Containment: | Wipe, scrape with non-sparking tools, or soak up inert material such as dry sand or earth, and put in an approved chemical waste container for disposal. |

Cleanup: Avoid and prevent runoff into storm drains and ditches. Spilled materials should be contained and disposed of in accordance with local and federal statutes. Spilled material is extremely slippery and may cause a slip hazard during cleanup.

SECTION 7: HANDLING AND STORAGE

Handling Precautions: Keep container closed when not in use.

Storage Requirements: Store between 60 F and 85 F. Avoid contact with moisture and excessive heat. Store away from potential physical damage, ignition sources, and incompatible materials such as oxidizers and strong acids.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation to maintain vapor and mist concentrations in air below exposure limits.

Personal Protective Equipment:

Respiratory Protection

For locations where levels may exceed established exposure limits by no more than a factor of ten, trained users should utilize proper NIOSH / MSHA (or equivalent) approved air purifying respirators equipped with organic vapor cartridges with mist pre-filters. For concentrations higher than the protection capabilities of air purifying respirators, supplied air respiratory protection is required. All respiratory protection should be used in accordance with 29 CFR, OSHA 1910.134 Respiratory Protection.

Eye Protection

Avoid contact with eyes. For liquid splash protection utilize chemical goggles, or a full face splash shield. If fine aerosolized mist is present, utilize a full-face respirator. Provide an eye wash station within 10 seconds travel time from user.

Skin Protection

Wear appropriate chemical resistant clothing, rubber boots, and gloves made of nitrile or neoprene. Refer to manufacture information for specific information regarding chemical resistance.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------|---------------------------------|--------------------------|--------|
| Appearance: | Clear, light-red viscous liquid | Physical State: | Liquid |
| Odor: | Aromatic odor | PH (5% solution): | N/D |
| Vapor Pressure: | N/D | Evaporation Rate: | N/D |
| Vapor Density: | >1 | Specific Gravity: | N/D |
| Boiling Point: | N/D | Melting Point: | N/D |
| Solubility: | Insoluble in water | Heat Value: | N/D |

'N/D' = not determined

SECTION 10: STABILITY AND REACTIVITY

The cured product is an organic material. Shield the material from heat or sparks with a thermal barrier.

Stability: This material is chemically stable.

Conditions to Avoid: Moisture and Heat

Materials to Avoid: Strong oxidizing agents, acids

Hazardous Decomposition Products: Toxic oxides of carbon, nitrogen, amines, and hydrocarbons

Hazardous Polymerization: Hazardous polymerization is not anticipated.

SECTION 11: TOXICOLOGICAL INFORMATION

This product does not contain any hazardous ingredients at or above regulated thresholds. This product is not regulated under Section 302 of SARA and 40 DFR Part 355.

None of the components present in this material at concentrations equal to or greater than 0.1% are listed with by IARC (International Agency for Research on Cancer), NTP (National Toxicology Program), OSHA (Occupational Safety and Health Administration), or ACGIH (American Conference of Governmental Industrial Hygienists) as a carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

The product is not known to contain toxic chemicals under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SECTION 13: DISPOSAL CONSIDERATIONS

Consult local, state, and federal regulatory agencies for acceptable disposal procedures and locations. Disposal in streams and sewers may be prohibited by federal, state, and local regulations.

Containers should be either reconditioned by CERTIFIED firms or properly disposed of by APPROVED firms. Disposal of containers should be in accordance with applicable laws and regulations. EMPTY drums should not be given to individuals. Serious accidents have resulted from the misuse of EMPTIED containers (drums, pails, etc.).

SECTION 14: TRANSPORT INFORMATION

Regulatory Information: DOT

UN Number: Non-regulated **Schedule "B" Export Code:** 3909501000

Proper Shipping Name: Not applicable **Packing Group:** Not applicable

Other Information: Not applicable **Class:** Not Applicable

This product is not regulated by DOT.

SECTION 15: REGULATORY INFORMATION

This product is not regulated under Section 302 of SARA and 40 CFR Part 355. This product does not contain any hazardous ingredients at or above regulated thresholds.

SECTION 16: OTHER INFORMATION

Hazardous Materials Identification System (HMIS) ratings:

| HEALTH HAZARD | FIRE HAZARD | REACTIVITY HAZARD | SPECIAL HAZARDS |
|---------------|-------------|-------------------|-----------------|
| 2 | 1 | 2,3 | No Water |

Containers should be either reconditioned by CERTIFIED firms or properly disposed of by APPROVED firms. Disposal of containers should be in accordance with applicable laws and regulations. EMPTY drums should not be given to individuals. Serious accidents have resulted from the misuse of EMPTY containers such as drums.

DISCLAIMER: The information contained herein is based upon data available to us and reflects our best professional judgment. Since it is impossible to anticipate the conditions under which our products may be used, we cannot guarantee that the recommendations will be adequate for all individuals and situations. Each user of this product should determine the suitability of the product for his particular purpose and should comply with all environmental regulations. Our goal is to manufacture products with zero or minimum hazards. Our products are improved daily as up to date information and research is received from our suppliers to use products with little or no hazards. Please feel free to contact us for current information.