

MATERIAL SAFETY DATA SHEET

PRODUCT: ASI # 388
Military Specification: MIL-46106 Type 1

Manufacturer's Name: American Sealants, Inc. Telephone : (260) 489-0728
Address: 3806 Option Pass Fax: (260) 489-0519
Fort Wayne, IN 46818 Emergency (800) 535-5053

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Section 1. Product Name

Product: ASI # 388 Sealant
Product Classification: One Component Silicone Rubber Compound
NFPA Profile: Health 1, Flammability 1, Reactivity 0

Section 2. Composition

Single or Mixture: Mixture
Chemical Identification: Organopolysiloxane mixture
Hazard Component(s)/(CAS NO.): No hazardous materials present
(See Section 8 of this MSDS for Exposure Guideline)

Section 3 Hazards Identification

Hazards Classification: None (based on IMO)
Fire and Explosion Not considered flammable nor combustible, but will burn if involved in a fire.
Potential Health Effect **Inhalation:** Vapor overexposure may cause drowsiness, injure blood and liver, and may irritate eyes, nose and throat
Skin Contact: On direct contact uncured product or its vapor may cause slight irritation to skin.
Eye Contact: On direct contact uncured product or its vapor may cause slight irritation to yes.
Ingestion: No information is available

Section 4. First Aid Measures

Inhalation: Remove to fresh air
Skin Contact: Immediately remove product from skin with dry cloth or towel, and wash exposed area with detergent
Eye Contact: Immediately flush with plenty of water for at least 15 minutes and promptly call a physician
Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Call a physician immediately.

Section 5. Fire Fighting Measures

Flash Point (method used): Not applicable (Solid)
Flammable Limits: Lower: Not determined Upper: Not determined
Extinguishing Media: Foam, dry chemical or carbon dioxide or fine water spray
Special Fire Fighting Procedure: None
Unusual fire and explosion Hazard: None

Section 6. Accidental Release Measures

Steps to be taken in case material is released or spilled:
Shut off all ignition sources
Contain the spill or leak.
Scrape up with cardboard or rag and place in container.

7. Handling and Storage

Precaution to be taken in handling and storing:

- Keep container closed when not in use.
- Store in a cool place.
- Keep away from heat, sparks and flame.
- Do not lay the container on its side.
- Use only with adequate ventilation
- Avoid contact with eyes and skin
- Keep out of reach of children.
- Contact lens wearers take appropriate precaution
- * * * * Information about the emptied container * * * *
- Do not re-use this container
- Keep away from heat, sparks and flame
- Do not puncture or cut this container, and do not weld on or near this container.

Section 8. Exposure Controls/Personal Protection

Exposure Guidelines:

- Vendor Guide; 3ppm (TWA), 10 ppm (STEL)
- AIHA WEEL*; 10 ppm (TWA)
- [Methylethylketoxime; decomposed product]
- (*AIHA WEEL = American Industrial Hygiene Association Workplace Environmental Exposure Level)

Respiratory Protection (Specific Type): Use air-supplied breathing apparatus unless local exhaust ventilation is adequate or decomposed product is within AIHA guideline

- Ventilation:**
- Local Exhaust:** Required
 - Mechanical (general):** Adequate ventilation system
 - Special:** Unknown
 - Other:** Pay attention to ventilation such as local exhaust, mechanical and/or leave door open for at least 24 hours after application.

Protective Gloves:

Plastic Film or rubber gloves

Other Protective Clothing or Equipment: Eyewash equipment

Work/Hygienic Practices:

- Wash hands after handling.
- Keep away from heat and flame
- Avoid Contact with eyes and prolonged or repeated skin
- Avoid prolonged breathing vapor.

contact.

Section 9. Physical and Chemical Properties

- Boiling Point:** Not applicable
- Vapor Pressure:** Negligible (25°C)
- Vapor Density (air=1):** >1
- Specific Gravity:** 1.05 (25°C)
- Melting Point:** Not applicable
- Evaporation Rate:** <1 (Butyl Acetate=1)
- Solubility in Water:** Not soluble
- Appearance (color):** See Cartridge
- Appearance (form):** Paste
- Odor:** Oxime odor

Section 10. Stability and Reactivity

- Stability:** Stable
- Condition to Avoid:** Exposure to air or moisture until ready to use - causes curing and methylethylketoxime vapor

To form gradually
Incompatibility (Material to Avoid): Water or moisture
Hazardous Decomposition or By-Product: Water, moisture, or humid air can cause Methyl ethyl ketoxime
 Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds. Silicone dioxide. Nitrogen oxides. Formaldehyde
Hazardous Polymerization: Will Not Occur
Conditions to Avoid: None

Section 11. Toxicological Information

Skin Irritation: No information is available
 See OTHER INFORMATION
Eye irritation: No information is available
 See OTHER INFORMATION
Sensitization: No information is available
 See OTHER INFORMATION
Acute Toxicity (LD50): No information is available
 See OTHER INFORMATION
Acute Toxicity (LC50) No information is available
 See OTHER INFORMATION
Subacute Toxicity: No information is available
 See OTHER INFORMATION
Chronic Toxicity: No information is available.
 See OTHER INFORMATION
Carcinogen: NTP: Not Listed IARC: Not Listed: OSHA Regulated: Not Listed
 See OTHER INFORMATION
Mutagenicity: No information is available
 See OTHER INFORMATION
Other Information: **Additional Information**
 Methyl Ethyl Ketoxime (MEKO) — Decomposition product
 Material will generate MEKO on exposure to humid air, gradually. Male rodents exposed to MEKO vapor at high concentration throughout their lifetime developed liver cancer. But relevance to humans is uncertain now. Please read the detail information to MEKO below.
Skin Irritation: Causes mild irritation. Can be absorbed through the skin
Eye Irritation: Causes severe irritation
Acute Oral Tox: LD50 (rat) = 4ml/kg.
Acute Inhalation Tox: LC50 (rat) = >4.8 mg/l
Inhalation Tox: Shows narcotic action at high concentration
 May product blood effects
Skin Sensitization: Positive (guinea pig)
Neurotoxicity: High dose can product transient and reversible change in neurobehavioral function.
 No evidence of cumulative neurotoxicity was detected.
Carcinogenicity: Liver carcinomas were observed in a lifetime inhalation study (ca.2 years) in which mice and rats were exposed.
 These carcinomas were statistically increased in males at concentration of 735 ppm. Relevance to humans is uncertain
 now MEKO
Mutagenicity: Not considered mutagenic based on several in vitro and vivo studies.
Other Chronic Study: Degenerative effects on the olfactory epithelium of nasal passages occurred in a concentration related manner in males and females of mice and rats at MEKO concentration of 15.75 and

375 ppm.
Workplace Environmental Exposure: Exposure Level AIHA WEEL: 10 ppm
(TWA)

Section 12. Ecological Information

Biodegradation: Not applicable
Bioaccumulation: No information is available
Aquatic Toxicity: No information is available
Other Information: None

Section 13. Disposal Consideration

Can be land-filled for cured product or burned in a chemical incinerator equipped with an afterburners and scrubber
Do not dispose the emptied container unlawfully.
Observe all federal, state, and local laws.

Section 14. Transportation Information

UN No.: None
IMO Classification and Class: None
Packaging Group: None
Proper Shipping Name: None
Technical Shipping Name: None
Marine Pollutant: None

DOT Reportable Quantity (RQ):
Hazard Substance(s) Name:/ (CAS No.) Contents and RQ: Not applicable

Section 15. Regulatory Information

Toxic Substances Control Act (TSCA) Status: Listed on the TSCA inventory

European Inventory Of Existing Commercial Chemical Substances (EINECS) Status:
Listed on the EINECS

Labeling According To EC-Regulations Required:
Symbol: Not required
R-Phrase: Not required
S-Phrase: Not required
Contains: None

Superfund Amendments and reauthorization to of 1986 (SARA) Title III Section 313 Supplier Notification:
This regulation required submission of annual reports of toxic chemical(s) that appear in section 313 of the
emergency planning and community Right-To-Know Act of 1986 and 40 CFR 372. This information must
be included in all MSDS's that are the toxic chemical(s) contained in this product are:

Chemical Name(CAS No.) And Contents: None

California Proposition 65:

This regulation requires a warning for California Proposition 65 Chemical(s) under the stature.

The California Proposition 65 Chemical(s) contained in this product are:

Chemical Name/(CAS No.) And Contents: None

Section 16. Other Information

For Industrial Use Only

This material safety data sheet is offered solely for your information, consideration and investigation. The data described in this MSDS consist of data on literature, our acquisitional data and analogical inference by data of similar chemical substance or product. American Sealants, Inc. provides no warranties, wither express or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.

MILITARY SPECIFICATIONS

ASI 388 meets the requirements of MIL-46106 Type 1