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He a lt h Fire 0 Reactivity Personal А Protection

# **Material Safety Data Sheet** 3,9-DivinyI-2,4,8,10-Tetraoxaspiro-[5,5]undecane MSDS

#### Section 1: Chemical Product and Company Identification Product Name: 3,9-Divinyl-2,4,8,10-Tetraoxaspiro-**Contact Information:** [5,5]undecane Sciencelab.com, Inc. 14025 Smith Rd. Catalog Codes: SLD1891 Houston, Texas 77396 CAS#: 78-19-3 US Sales: 1-800-901-7247 International Sales: 1-281-441-4400 RTECS: XF0875000 Order Online: ScienceLab.com TSCA: TSCA 8(b) inventory: No products were found. CHEMTREC (24HR Emergency Telephone), call: Cl#: Not available. 1-800-424-9300 Synonym: 3,9-Divinylspirobi(m-dioxane) International CHEMTREC, call: 1-703-527-3887 Chemical Name: 3,9-Divinyl-2,4,8,10-tetraoxaspiro-[5,5] For non-emergency assistance, call: 1-281-441-4400 undecane Chemical Formula: C11-H16-O4

# Section 2: Composition and Information on Ingredients

#### **Composition:** Name CAS# % by Weight 78-19-3 100 {3,9-}Divinyl-2,4,8,10-Tetraoxaspiro-[5,5]

Toxicological Data on Ingredients: undecane Not applicable.

# Section 3: Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

# **Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

# Section 4: First Aid Measures

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

#### Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

### Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

# Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO2).

#### Fire Hazards in Presence of Various Substances:

Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

#### Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

#### Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

# Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

#### Large Spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

# Section 7: Handling and Storage

#### **Precautions:**

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

# **Section 8: Exposure Controls/Personal Protection**

#### **Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection: Safety glasses. Lab coat.

#### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

### **Section 9: Physical and Chemical Properties**

Physical state and appearance: Liquid.

Odor: Slight.

Taste: Not available.

Molecular Weight: 212.24 g/mole

Color: Clear Colorless.

pH (1% soln/water): Not available.

Boiling Point: 109°C (228.2°F)

Melting Point: -44.5°C (-48.1°F)

Critical Temperature: Not available.

**Specific Gravity:** 1.251 (Water = 1)

Vapor Pressure: Not available.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

lonicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Not available.

### Section 10: Stability and Reactivity Data

Stability: The product is stable.
Instability Temperature: Not available.
Conditions of Instability: Excess heat, ignition sources, incompatible materials
Incompatibility with various substances: Reactive with oxidizing agents.
Corrosivity: Not available.
Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

# Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Eye contact.

#### **Toxicity to Animals:**

Acute oral toxicity (LD50): 3250 mg/kg [Rat]. Acute dermal toxicity (LD50): 7920 mg/kg [Rabbit].

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

#### Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: May cause eye irritation. Inhalation: Vapor may cause respiratory tract irritation. Ingestion: May cause gastrointestinal tract irritation with nausea. Symptoms of over exposure may include irritation, dizzines, nausea, and headache. The toxicological properties of this substance have not been fully investigated.

# Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

#### Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

### Section 13: Disposal Considerations

#### Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

### Section 15: Other Regulatory Information

Federal and State Regulations: No products were found.

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

#### DSCL (EEC):

This product is not classified according to the EU regulations. Not applicable.

#### HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: a

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 1

Reactivity: 0

Specific hazard:

### **Protective Equipment:**

Not applicable. Lab coat. Not applicable. Safety glasses.

# **Section 16: Other Information**

References: Not available.

Other Special Considerations: Not available.

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