

# MATERIAL SAFETY DATA SHEET

S.A. Day urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary, to use and understand the data contained in this MSDS.

To promote safe handling, each customer and recipient should notify its employees, agents, contractors and others whom it believes will use this material or the information in this MSDS and any other information regarding hazards or safety related to the safe handling and use of this product.

Page 1 of 5  
Date Prepared: 12/2/99  
MSDS No.  
Product: Dayrod 982

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Dayrod 982  
Product Description: Flux Coated Soldering Rod  
Product Code:

**MANUFACTURER:**  
The S.A. Day Mfg. Co., Inc.  
1489 Niagara Street  
Buffalo, NY 14213  
716-881-3030

**24 HR. EMERGENCY TELEPHONE NUMBERS:**  
CHEMTREC: 800-424-9300  
Emergency Contact: Chemtrec  
Emergency Phone: 800-424-9300

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS No.</u>	<u>Exposure Limits</u>
Cesium tetrafluoroaluminate	107-21-1	TLV 100 mg/m <sup>3</sup> (C) PEL 50 ppm (C)
Aluminum	107-41-5	TLV 5 mg/m <sup>3</sup> (fume))

## 3. HAZARDS IDENTIFICATION

### *Emergency Overview:*

**Immediate Concerns:** May cause severe and permanent eye damage.

### *Potential Health Effects*

**Eyes Contact:** May cause severe eye irritation. Permanent loss of sight may result.

**Skin Contact:** May cause skin irritation.

**Inhalation:** May cause irritation of the nose and throat.

**Ingestion:** May cause abdominal discomfort.

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**Signs and Symptoms of Overexposure:** Tearing or burning sensation of the eyes.

**Effects of Repeated Overexposure:** None expected.

#### 4. FIRST AID MEASURES

**Eyes:** Flush eyes with water for at least 15 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye/lid tissue. Get immediate medical attention.

**Skin:** Wash the skin immediately with soap and water.

**Ingestion:** If patient is fully conscious, give large amounts of water or milk. Do not induce vomiting. Call a Poison Control Center, Hospital Emergency Room or doctor immediately

**Breathing:** Remove to fresh air

#### 5. FIRE FIGHTING MEASURES

Flashpoint and Method: N/A

Flammable Limits: N/A

Autoignition Temperature: N/A

**Flammable Class:** Non-flammable

**Extinguishing Media:** Use water spray, fog, foam, CO<sub>2</sub> or other agents as appropriate for surrounding fire.

**Hazardous Combustion Products:** Fluorine compounds, including hydrogen fluoride and hydrogen gas; carbon monoxide.

**Fire Fighting Procedures:** **Fire Fighting Procedures:** Wear self-contained breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool; do not get water inside containers. Move exposed containers from the fire area if it can be done without risk.

**Unusual Fire and Explosion Hazards:** During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### 6. ACCIDENTAL RELEASE MEASURES

**General Procedures:** Confine in small area. Place in suitable labeled containers for disposal. All spill response should be carried out in accordance with Federal, State and local requirements.

**Special Protective Equipment:** Use protective gloves.

## 7. HANDLING AND STORAGE

**General Procedures:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep containers in a dry and well ventilated area. Keep containers tightly closed. Protect containers from damage.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### **Personal Protection:**

**Eyes and Face:** Wear safety spectacles. Do not wear contact lenses.

**Skin:** Wear protective gloves to avoid contact with skin.

**Respiratory:** Wear a properly fitted NIOSH/MSHA approved organic/acid gas cartridge respirator with a prefilter to remove metal fumes if there is a potential for airborne exposures to exceed established exposure limits. Consult respirator manufacturer to determine appropriate equipment. If concentrations are high or unknown, wear self-contained breathing apparatus. Refer to OSHA 29CFR1910.134 "Respiratory Protection".

**Work Hygiene Practices:** Provide good general room ventilation to minimize exposure. If necessary, use local exhaust ventilation to control particulate/mist levels. ***Wash thoroughly after handling and before eating.***

**Other Use Precautions:** Wear tinted goggles or full face shield to protect against infrared radiation from the torch flame and hot metal. All filter lenses and plates shall meet the test for transmission of radiant energy prescribed in ANSI Z87.1-1968-American National Standard Practice for Occupational and Educational Eye and Face Protection. The high temperatures normally found in soldering processes will generate fumes. These fumes will contain vaporized metals and metallic oxides of the metals contained in the soldering material and substrate, and halogenated compounds from the brazing flux. Repeated overexposure to metal fumes may cause metal fume fever, characterized by cough, dyspnea, fever, chills, substernal chest pain, muscular pain, nausea and vomiting. Metal fume fever is temporary with recovery in 24 - 48 hours, and is without medical sequelae.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid rod.  
pH: N/A  
Percent Volatile: 0  
Vapor Pressure: N/A  
Vapor Density: N/A  
Boiling Point: N/A  
Melting Point: 725deg - 850 deg F  
Solubility in Water: N/A

Evaporation Rate: N/A  
Specific Gravity: N/A  
Viscosity: N/A

**10. STABILITY AND REACTIVITY**

**Stable:** Normally stable.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** Incineration; contact with strong acids or alkaline materials.

**11. TOXICOLOGICAL INFORMATION**

The toxicological properties of this mixture have not been fully determined. The information provided is based on the toxicological properties of the ingredients.

**12. ECOLOGICAL INFORMATION**

None available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Method:** Dispose of waste in accordance with all federal, state and local regulations.

**14. TRANSPORT INFORMATION**

***DOT (Department of Transportation)***

Technical Name:  
Combustion Class:  
Hazard Class:  
NA/UN Number:  
Packing Group:

## 15. REGULATORY INFORMATION

**TSCA** The components of this product are either on the TSCA inventory or are exempt from the inventory

### California Proposition 65

**Carcinogen** cadmium (< 0.004%)  
lead (< 0.006 %)

### California Proposition 65

**Reproductive Toxin** cadmium (< 0.004%)  
lead (< 0.006 %)

### Carcinogens:

**OSHA** cadmium (< 0.004%)  
**NTP** cadmium (< 0.004%)  
**IARC** cadmium (< 0.004%)  
lead (< 0.006 %)

## 16. OTHER INFORMATION

### HMIS Ratings:

**Health:** 3

**Flammability:** 0

**Reactivity:** 1

**Protective Equipment:** To be determined by the user based on the conditions of use and the effectiveness of engineering controls in place during the handling and use of the product.