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## Section 1: Product Identification

Product Name: 9-Fluorenylmethyl chloroformate, 97%

Product #: 300436

CAS #: 28920-43-6

## Section 2: Composition and Information on Ingredients

Ingredient: Title Compound

CAS #: 28920-43-6

Percent: 97%

## Section 3: Hazards Identification

Emergency Overview: Causes irritation to eyes, skin, and respiratory tract.

Eye Contact: Causes mild to severe eye irritation. May be harmful if absorbed in eyes.

Skin Contact: Causes mild to severe skin irritation. May be harmful if absorbed through skin.

Inhalation: Inhalation of dust may cause irritation of nose, mucous membranes, and respiratory tract. May be harmful if inhaled.

Ingestion: No specific information on the physiological effects is available. Ingestion may cause vomiting and diarrhea. May be harmful if swallowed.

Chronic Health Effects: No information available on long-term effects.

## Section 4: First Aid Measures

Eye Exposure: Immediately rinse eyes with water for at least 10-15 minutes. Keep eye lids open if needed. Seek physician assistance immediately. Show this safety data sheet to the doctor in attendance.

Skin Exposure: Immediately wash the affected area with soap and water. Remove contaminated clothing if needed and wash before reuse. Seek physician assistance immediately. Show this safety data sheet to the doctor in attendance.

Inhalation: Keep affected individual warm and at rest in a comfortable position with access to fresh air. Closely monitor for signs of respiratory problems. Seek physician assistance immediately. Show this safety data sheet to the doctor in attendance.

Ingestion: Rinse mouth out with water. Do not give anything by mouth if affected individual is unconscious. Immediately seek physician assistance. Call poison center if needed. Show this safety data sheet to the doctor in attendance.

## Section 5: Fire Fighting Measures

Extinguishing Medium: Carbon dioxide, dry power, or foam.

Fire Fighting Procedures: Fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

Hazardous Combustion and Decomposition Products: The product may emit toxic fumes if involved in a fire.

## **Section 6: Accidental Release Measures**

Spill and Leak Procedures: Keep unprotected persons away. Small spills can be mixed with vermiculite or sodium carbonate and sweep up without creating dust. Keep away from ignition sources. Then place into a suitable disposal container and dispose of according to government regulations.

## **Section 7: Handling and Storage**

Handling and Storage: Store in a tightly sealed container. Keep in a cool dry place away from heat and direct sunlight. Ensure good ventilation at the workplace.

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

Eye Protection: Always wear approved safety glasses / face protection when handling a chemical substance in the laboratory. Remove contact lenses if possible.

Skin Protection: Wear protective clothing, gloves or face protection. Use government-approved equipment under appropriate standards. Inspect before use. Consult with glove manufacturer to determine the proper type of glove.

Ventilation: Always handle the material in an efficient fume hood.

Respirator: Use a respirator if ventilation is not available. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.

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

Color and Form: white solid

Molecular Formula: C<sub>15</sub>H<sub>11</sub>ClO<sub>2</sub>

Molecular Weight: 258.70

Melting Point: 62-64 °C

Boiling Point: No data available.

Flash Point: No data available.

Density: No data available.

Vapor Density: No data available.

Vapor Pressure: No data available.

Autoignition Temperature: No data available.

Specific Gravity: No data available.

Odor: No data available.

Solubility in Water: No data available.

## **Section 10: Stability and Reactivity**

Stability: Stable under recommended storage conditions. Hazardous Reactions:

No data available.

Conditions to Avoid: Handle the material according to specifications.

Incompatibility: Alcohols, amines.

Decomposition Products: Carbon oxides, hydrogen chloride, organic fumes.

## **Section 11: Toxicological Information**

RTECS Data: No information available in the RTECS files.

Carcinogenic Effects: No data available.

Mutagenic Effects: No data available.

Tetratogenic Effects: No data available.

## **Section 12: Ecological Information**

Ecological Information: No data available.

## **Section 13: Disposal Considerations**

Disposal: Dispose material according to local, state and federal regulations.

## **Section 14: Transportation**

DOT (US): UN number: 3261; Class: 8; Packing group: II; Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (9H-Fluoren-9-ylmethyl chloroformate); Marine pollutant: No

IMDG: UN number: 3261; Class: 8; Packing group: II; EMS-No: F-A, S-B; Proper shipping name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (9H-Fluoren-9-ylmethyl chloroformate)

UN ID Number (IATA): UN number: 3261; Class: 8; Packing group: II; Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (9H-Fluoren-9-ylmethyl chloroformate)

## **Section 15: Regulatory Information**

TSCA: No

SARA (Title 313): No

## **Section 16: Other Information**

Disclaimer: The information above is believed to be accurate and represents the information currently available to Aspira Scientific. However, we make no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information.

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