

INTERNAL SAFETY DATA SHEET **Acetyl Fluoride**

Acetyl Fluoride (CAS# 109-66-1)

Issue: 10/1/2010

1. IDENTIFICATION AND RECOMMENDED USES

1.1 Synonyms:

Recommended Name	Structure
------------------	-----------

1.2 Recommended Use(s) of the substance or mixture and any restrictions

Recommended Use	Restrictions
Research laboratory use only	Acetyl Fluoride is highly reactive and corrosive. It should be used in a well-ventilated laboratory fume hood or glove box. It is highly flammable and reacts violently with water. It is also highly toxic and should be handled with extreme care.

None of the above uses are intended for general consumer use.

1.3 Physical & Chemical

Appearance	Colorless gas
Odor	Strongly irritating
Boiling Point	47.6°C (117.7°F)
Melting Point	-116.3°C (-177.3°F)
Density	1.101 g/cm ³ (at 20°C)
Specific Gravity	1.101 (at 20°C)
Relative Vapor Density	1.93 (air = 1)
Refractive Index	1.2918 (at 20°C)
Flash Point	None
Autoignition Temperature	None
Decomposition Temperature	None
Stability	Stable under normal conditions

1.4. Storage conditions: Store in a well-ventilated area at 20°C (68°F) to 30°C (86°F).

2. HAZARD INFORMATION

2.1 Hazardous Properties of the substance or mixture

Acetyl Fluoride is highly flammable and reacts violently with water. It is also highly toxic and should be handled with extreme care.

2.2 Labels

Acetyl Fluoride is classified as a highly flammable gas (H228) and a very toxic gas (H302). It is also classified as an irritant (H314).

2.3 Safety Information

P001	Keep away from heat, open flames, and other sources of ignition.
P023	Do not breathe gas, vapor, mist, or dust.
P031	Do not get in eyes, on clothing, or on skin.

2.4 Precautionary Statements