Material Safety Data Sheet (MSDS)

Revision Number: 1.1		Last updated May 2011	
Product and Company Identifica	<u>tion</u>		
Product Name:	4-(Trifluorom	ethyl)umbelliferone	
Catalog Number:	80006		
Manufacturer/Supplier:	AnaSpec, Inc.		
and the state of t		34801 Campus Drive, Fremont, CA 94555	
	Tel: 510-791-9	Tel: 510-791-9560	
	Fax: 510-791-	9572	
Composition / Information on In	oredients		
Synonym: β – Trifluoromethylumbe		cv - 4 - trifluoromethylcoumarin	
Molecular Formula: C ₁₀ H ₅ F ₃ O ₃	injerone, 7 Hydros	y i ilginolomentyteotimalin	
Molecular Weight: 230.1			
CAS Number: 575-03-1			
<u>Hazards Identification</u>			
OSHA Hazards			
Highly toxic by ingestion, Irritant			
First Aid Measure:			
Inhalation:		If inhaled, remove to fresh air. If not breathing give	
		artificial respiration. If breathing is difficult, give oxygen.	
Ingestion:		If swallowed, wash out mouth with water provided person is conscious. Call a physician.	
Skin:		In case of contact, immediately wash skin with soap and	
		plenty of water.	
Eyes:		In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.	
		amounts of water for at least 13 minutes.	
Fire Fighting Measures			
Extinguishing media:		Water spray, carbon dioxide, dry chemical powder or	
		appropriate foam.	
Special firefighting procedures:		Wear self-contained breathing apparatus and protective	
Special firefighting procedures.		clothing to prevent contact with skin and eyes.	
		crothing to prevent contact with skin and eyes.	
Unusual fire and explosions hazard	ls:	Emits toxic fumes under fire conditions.	
Accidental Release Measures			
Personal precautions			
	Avoid dust formation	on. Avoid breathing dust. Ensure adequate ventilation.	
Environmental precautions			
Do not let product enter drains.			

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Handling and Storage

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Keep container tightly closed in a dry and well-ventilated place. Store at -20 °C.

Exposure Controls / Personal Protection

Personal Protection

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves.

Eye protection

Safety glasses with side-shields.

ACGIH/OSHA Permissible Exposure Limit Data

Not determined

Physical and Chemical Properties

Form:	Solid
Odor:	Not determined
Melting Point:	175-180 C
Flash Point:	Not determined

Stability and Reactivity

Stability:	Stable under recommended storage conditions
Materials to Avoid:	Strong oxidizing agents
Hazardous decomposition products:	Carbon oxides, Hydrogen fluoride

Toxicological Information

Acute Toxicity:	No data available
	Fatal if swallowed.
	Causes skin irritation
	Causes serious eye irritation.
Health Hazards:	May cause respiratory irritation.
Carcinogenicity:	Not listed by NTP, IARC or OSHA.

Ecological Information

Do not allow product to reach ground water, watercourse, or sewage system.

Disposal Considerations

Consult local, state or national regulations for proper disposal.

Transport Information

DOT (US)

UN-Number: 2811 Class: 6.1 Packing group: III

Proper shipping name: Toxic solids, organic, n.o.s. (4-Trifluoromethylumbelliferone)

Marine pollutant: No

Poison Inhalation Hazard: No

IATA

UN-Number: 2811 Class: 6.1 Packing group: III

Proper shipping name: Toxic solid, organic, n.o.s. (4-Trifluoromethylumbelliferone)

Regulations

OSHA Hazard:	Highly toxic by ingestion, Irritant
SARA 311/312 Hazard:	Acute Health Hazard
	This product does not contain any chemicals known to
California Prop. 65 Components:	State of California to cause cancer, birth, or any other
	reproductive defects.

Other Information

It is not intended for food, drug, household, agricultural or cosmetic use. A technically qualified individual experienced in handling potentially hazardous chemicals must supervise its use. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Users should make independent decisions regarding completeness of the information based on all sources available. AnaSpec shall not be held liable for any damage resulting from handling or from contact with the above product.