

Common Name: **AFLATOXINS**

Synonyms: Aflatoxins B1, B2, G1 and G2

CAS No: 1402-68-2

 Molecular Formula: $C_{13}H_{12}O_6$; $C_{17}H_{14}O_7$; $C_{17}H_{12}O_7$; $C_{17}H_{14}O_6$

RTK Substance No: 0029

Description: Colorless to pale yellow crystals when used in research

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
4 - Health -- Fire -- Reactivity DOT#: None ERG Guide #: None Hazard Class: 6.1 (Poison)	May be COMBUSTIBLE in <i>liquid</i> form. Use dry chemical, CO ₂ , water spray or foam as extinguishing agents.	Aflatoxins are not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC); STRONG BASES (such as SODIUM HYDROXIDE and POTASSIUM HYDROXIDE); AMMONIA; and AMINES.

SPILL/LEAKS

Isolation Distance:

Spill: 75 meters (250 feet)

Fire: 800 meters (1/2 mile)

Moisten spilled material first or use a HEPA-filter vacuum for clean-up and deposit into sealed containers.

Ventilate and wash area after clean-up is complete. DO NOT wash into sewer.

Bioaccumulation is low in aquatic life.

PHYSICAL PROPERTIES

Odor Threshold: Not available

Flash Point: May be combustible (liquid form)

Water Solubility: Soluble

Melting Point: 514° to 516°F (268° to 269°C)

Molecular Weight: 312 to 330

EXPOSURE LIMITS

 No occupational exposure limits have been established for **Aflatoxins**.

PROTECTIVE EQUIPMENT

Gloves: Nitrile and Natural Rubber

Coveralls: DuPont Tyvek®

Respirator: Supplied air

HEALTH EFFECTS

Eyes: No information

Skin: No information

Inhalation: Headache, nausea and vomiting

Chronic: Cancer (liver) in humans

FIRST AID AND DECONTAMINATION

Remove the person from exposure.

Flush eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.

Remove contaminated clothing and wash contaminated skin with water.

Transfer promptly to a medical facility.