

Common Name: **TRIFLURALIN**

Synonyms: Crisalin; Treflan

CAS No: 1582-09-8

 Molecular Formula: C₁₃H₁₆F₃N₃O₄

RTK Substance No: 1918

Description: Odorless, yellow or bright orange, crystalline solid

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
2 - Health 1 - Fire 0 - Reactivity DOT#: NA 3077 ERG Guide #: 171 Hazard Class: 9 (Environmentally Hazardous Substance)	COMBUSTIBLE SOLID Use dry chemical, CO ₂ , water spray or foam as extinguishing agents. Trifluralin may be dissolved in a liquid carrier that is flammable. POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Nitrogen Oxides</i> and <i>Hydrogen Fluoride</i> . Use water spray to keep fire-exposed containers cool.	Trifluralin reacts violently with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE).

SPILL/LEAKS

Isolation Distance:

Spill: 25 meters (75 feet)

Fire: 800 meters (1/2 mile)

 Dampen spill with 60% to 70% *Ethyl Alcohol* and place into sealed containers for disposal.

 Wash spill area with 60% to 70% *Ethyl Alcohol*.

DO NOT wash into sewer.

Trifluralin is toxic to honeybees, fish, and other aquatic organisms, and can bioaccumulate.

PHYSICAL PROPERTIES

Odor Threshold: Odorless

Flash Point: >185°F (>85°C)

Vapor Pressure: 1.9 x 10⁻⁴ mm Hg at 85°F (29°C)

Specific Gravity: 1.3 (water = 1)

Water Solubility: Very slightly soluble

Boiling Point: 282° to 284°F (139° to 140°C) (Decomposes)

Melting Point: 115° to 117°F (46° to 47°C)

Molecular Weight: 335.3

EXPOSURE LIMITS

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

The Protective Action Criteria values are:

 PAC-1 = 0.075 mg/m³

 PAC-2 = 0.6 mg/m³

 PAC-3 = 300 mg/m³

PROTECTIVE EQUIPMENT

Gloves: Neoprene

Coveralls: Tyvek®

Respirator: Full facepiece APR with *P100 filter*
 >300 mg/m³ - SCBA

HEALTH EFFECTS

Eyes: Irritation

Skin: Irritation and rash

Inhalation: Nose and throat irritation with coughing and wheezing.

Chronic: Cancer (urinary tract, thyroid) in animals

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.

Quickly remove contaminated clothing and wash contaminated skin with large amounts of soap and water.

Begin artificial respiration if breathing has stopped and CPR if necessary.

Transfer promptly to a medical facility.