

# **Right to Know Hazardous Substance Fact Sheet**

**Emergency** Responders Quick Reference

Common Name: ACRYLAMIDE

Synonyms: Acrylic Amide; 2-Propenamide

CAS No: 79-06-1

Molecular Formula: C<sub>3</sub>H<sub>5</sub>NO RTK Substance No: 0022

Description: Colorless to white, odorless flake-like solid

HAZARD DATA		
Hazard Rating	Firefighting	Reactivity
3 - Health 2 - Fire 2 - Reactivity DOT#: UN 2074 ERG Guide #: 153P Hazard Class: 6.1 (Poison)	Acrylamide is a COMBUSTIBLE SOLID.  Use dry chemical, CO <sub>2</sub> , water spray or foam as extinguishing agents.  POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Nitrogen Oxides</i> .  CONTAINERS MAY EXPLODE IN FIRE.  Use water spray to keep fire-exposed containers cool.  Acrylamide decomposes and polymerizes above 184°F (85°C) releasing <i>Ammonia</i> and <i>Hydrogen gases</i> .  Polymerization may be violent.	Acrylamide may polymerize violently when HEATED to its melting point; when exposed to ULTRAVIOLET LIGHT; or when exposed to STRONG BASES (such as SODIUM HYDROXIDE and POTASSIUM HYDROXIDE) or OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE).  Acrylamide is not compatible with MINERAL ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC); OLEUM; AMMONIA; ISOCYANATES; and COMPOUNDS containing HYDROXYL-, AMINO-, and SULFHYDRYL GROUPS.

#### SPILL/LEAKS

#### **Isolation Distance:**

Spill: 25 meters (75 feet)

Fire: 800 meters (1/2 mile) in all directions Moisten spilled material first, or use a HEPA-filter vacuum for clean-up, and deposit into sealed

containers.

DO NOT wash into sewer.

May bioaccumulate in aquatic life.

Severe marine pollutant.

#### PHYSICAL PROPERTIES

**Odor Threshold:** Odorless 280°F (138°C) Flash Point: 464°F (240°C) **Auto Ignition Temp:** Vapor Density: 2.45 (air = 1)

Vapor Pressure: 0.007 mm Hg at 68°F (20°C)

**Specific Gravity:** 1.22 (water = 1)Water Solubility: Soluble (Mixes)

347° to 572°F (175° to 300°C) **Boiling Point:** 184°F (85°C) (Violent polymerization) **Melting Point:** 

**Ionization Potential:** 9.5 eV **Molecular Weight:** 71.1

### **EXPOSURE LIMITS**

OSHA: 0.3 mg/m<sup>3</sup>, 8-hr TWA 0.03 mg/m<sup>3</sup>, 10-hr TWA NIOSH: ACGIH: 0.03 mg/m<sup>3</sup>, 8-hr TWA

60 mg/m<sup>3</sup> IDLH:

## PROTECTIVE EQUIPMENT

Butyl, Nitrile, Neoprene and Viton (>8-hr breakthrough) Gloves:

DuPont Tychem® Fabrics; Kappler® Zytron® 400; and Coveralls: Saint-Gobain ONESuit TEC (>8-hr breakthrough for

Amides)

>0.03 mg/m<sup>3</sup> - Supplied air Respirator:

### **HEALTH EFFECTS**

Eyes: Irritation, watering and inflammation Skin: Irritation, rash or burning feeling Inhalation:

Nose and throat irritation with coughing

and wheezing

Confusion, disorientation, fatigue and

tremors

Chronic: Cancer (pancreas) 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. Seek medical attention.

Quickly remove contaminated clothing and wash contaminated skin with large amounts of water. Seek medical attention.

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

Transfer to a medical facility.