

Right to Know Hazardous Substance Fact Sheet

Emergency Responders Quick Reference

Common Name: AMMONIUM BISULFITE

Synonyms: Ammonium Hydrogen Sulfite; Ammonium Sulfite

CAS No: 10192-30-0

Molecular Formula: NH₄HSO₃ RTK Substance No: 0090

Description: Colorless to yellow, crystalline solid that is commonly used in a water solution

HAZARD DATA		
Hazard Rating	Firefighting	Reactivity
3 - Health	Extinguish fire using an agent suitable for type of surrounding fire. Ammonium Bisulfite itself does	Ammonium Bisulfite reacts with WATER, STEAM and STRONG ACIDS (such as HYDROCHLORIC,
0 - Fire	not burn.	SULFURIC and NITRIC) to form <i>Ammonia</i> and other
0 - Reactivity	POISONOUS GASES ARE PRODUCED IN FIRE,	toxic gases.
DOT# : UN 2693	including Sulfur Oxides, Nitrogen Oxides and Ammonia.	Ammonium Bisulfite reacts violently with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES,
ERG Guide #: 154	Use water spray to keep fire-exposed containers	PERMANGANATES, CHLORATES, NITRATES,
Hazard Class: 8	cool.	CHLORINE, BROMINE and FLUORINE) to form flammable and reactive gases.
(Corrosive)		Ammonium Bisulfite is not compatible with LEAD DIACETATE; ALUMINUM; and MERCURY CHLORIDE.

SPILL/LEAKS

Isolation Distance:

Spill: 25 meters (75 feet) Fire: 800 meters (1/2 mile)

Absorb liquids in vermiculite, dry sand, earth, or a similar material and place into sealed containers for

disposal.

Collect powdered material in the most convenient and safe manner and place into sealed containers for

disposal.

DO NOT wash into sewer.

PHYSICAL PROPERTIES

Flash Point: Nonflammable

Specific Gravity: 2 (water = 1)

Water Solubility: Soluble

Boiling Point: 302°F (150°C) (Sublimes)

Molecular Weight: 99.1

EXPOSURE LIMITS

The Protective Action Criteria values are:

 $PAC-1 = 30 \text{ mg/m}^3$ $PAC-2 = 330 \text{ mg/m}^3$

 $PAC-3 = 2,000 \text{ mg/m}^3$

PROTECTIVE EQUIPMENT

Gloves: Nitrile and Neoprene

Coveralls: Tyvek®

Respirator: Full facepiece APR with High efficiency filter or Supplied

air

HEALTH EFFECTS

Eyes: Irritation and burns
Skin: Irritation and burns

Inhalation: Nose, throat and lung irritation with

coughing and severe shortness of breath

(pulmonary edema)

FIRST AID AND DECONTAMINATION

Remove the person from exposure.

Flush eyes with large amounts of water for at least 30 minutes. Remove contact lenses if worn. Seek medical attention immediately

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 promptly to a medical facility.

Medical observation is recommended as symptoms may be delayed.