

Common Name: **AMMONIUM SULFITE**

Synonyms: Ammonium Hydrogen Sulfite; Diamonium Sulfite

CAS No: 10196-04-0

Molecular Formula: $(\text{NH}_4)_2\text{SO}_3$

RTK Substance No: 0116

Description: Odorless, colorless, crystalline solid

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
2 - Health 0 - Fire 0 - Reactivity DOT#: UN 3077 ERG Guide #: 171 Hazard Class: 9 (Environmentally Hazardous Substance)	Extinguish fire using an agent suitable for type of surrounding fire. Ammonium Sulfite itself does not burn. POISONOUS GASES ARE PRODUCED IN FIRE , including <i>Sulfur Dioxide</i> and <i>Nitrogen Oxides</i> . Use water spray to keep fire-exposed containers cool.	Ammonium Sulfite reacts with STRONG ACIDS (such as HYDROCHLORIC , SULFURIC and NITRIC) to form toxic <i>Hydrogen Sulfide gas</i> . Ammonium Sulfite is not compatible with OXIDIZING AGENTS (such as PERCHLORATES , PEROXIDES , PERMANGANATES , CHLORATES , NITRATES , CHLORINE , BROMINE and FLUORINE). Protect from WATER and MOISTURE .

SPILL/LEAKS

Isolation Distance:

Spills: 25 meters (75 feet)

Fire: 800 meters (1/2 mile)

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

DO NOT wash into sewer.

Ammonium Sulfite is dangerous to aquatic life in high concentrations.

PHYSICAL PROPERTIES

Odor Threshold:	Odorless
Flash Point:	Nonflammable
Specific Gravity:	1.41 (water = 1)
Water Solubility:	Soluble
Boiling Point:	302°F (150°C) (Sublimes)
Melting Point:	140° to 158°F (60° to 70°C) (Decomposes)
Molecular Weight:	116.14

EXPOSURE LIMITS

The Protective Action Criteria values are:

PAC-1 = 10 mg/m³PAC-2 = 10 mg/m³PAC-3 = 10 mg/m³

PROTECTIVE EQUIPMENT

Gloves:	Nitrile and Natural Rubber
Coveralls:	Tyvek®
Respirator:	>10 mg/m ³ - SCBA

HEALTH EFFECTS

Eyes:	Irritation
Skin:	Irritation
Inhalation:	Nose, throat and lung irritation with coughing, wheezing and shortness of breath

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 water.

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

Transfer promptly to a medical facility.