

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-744-7446-11-9.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**

7446-11-9

**Code:**

M

**RTECS:**

WT4830000

**Code:**

M

**Name:**

SULFUR TRIOXIDE (SARA III)

**Other REC Limits:**

NONE SPECIFIED

**OSHA PEL:**

NOT ESTABLISHED

**Code:**

M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**

NOT ESTABLISHED

**Code:**

M

**ACGIH STEL:**

N/P

**Code:**

## Control Measures

**Respiratory Protection:**

IF TLV IS EXCEEDED A NIOSH/MSHA APPROVED FULL FACEPIECE CHEMICAL CARTRIDGE RESP MAY BE WORN UP TO 100 X TLV/MAX USE CONC SPEC BY RESP SUPPLIER, WHICHEVER IS LESS. ALTERNATIVELY, A NIOSH/MSHA APPROVED SUPPLIED AIR FULL FACEPIECE RESP/AIRLINE HOOD.

**Ventilation:**

LOCAL/GENL EXHST IS RECOMM TO KEEP EMPLOYEE EXPOS

**Protective Gloves:**

RUBBER, NEOPRENE

**Eye Protection:**

CHEMICAL WORK GOGGLES, FULL FACESHIELD

**Other Protective Equipment:**

Equipment EYEWASH AND QUICK DRENCH FACILITIES, IMPERVIOUS BOOTS, APRON, COVERALLS.

**Work Hygienic Practices:**

3 DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR. CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH THIS MATERIAL.

**Supplemental Safety and Health:**

WASH THOROUGHLY AFTER HANDLING. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. KEEP OUT OF REACH OF CHILDREN.

## Health Hazards Data

**LD50/LC50 Mixture:**

LD50 ORAL-RAT: 2140 MG/KG

**Route Of Entry Inds - Inhalation:**

YES

**Skin:**

NO

**Ingestion:**

NO

**Carcinogenicity Inds - NTP:**

NO

**IARC:**

NO

**OSHA:**

NO

**Health Hazards Acute And Chronic:**

ACUTE - INHALATION: SULFUR TRIOXIDE AND SULFURIC ACID FUMES CAN BURN THE RESPIRATORY TRACT. COUGHING, CHOKING, LUNG EDEMA. INGESTION: SEVERE OFTEN FATAL BURNS. SKIN: DEEP SLOW HEALING BURNS. EYES: SEVERE IRRITATION, BURNS, AND LOSS OF SIGHT. CHRONIC - DAMAGE TO TOOTH ENAMEL AND LUNGS.

**Explanation Of Carcinogenicity:**

N/R

**Signs And Symptoms Of Overexposure:**

SULFUR TRIOXIDE AND SULFURIC ACID FUMES CAN BURN THE RESPIRATORY TRACT. CAUSES COUGHING, CHOKING, LUNG EDEMA. INGESTION CAUSES VERY SEVERE OFTEN FATAL BURNS. CAUSES DEEP SLOW HEALING BURNS OF SKIN. SEVERE IRRITATION, BURNS, AND LOSS OF SIGHT.

**Medical Cond Aggravated By Exposure:**

PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

**First Aid:**

GET MEDICAL ATTENTION IMMEDIATELY. EYES AND SKIN: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. INHALATION: REMOVE TO FRESH AIR AND PROVIDE OXYGEN/CPR IF NEEDED. ORAL: DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF WATER/MILK. CALL A PHYSICIAN IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

**Spill Release Procedures:**

WEAR PROPER PROTECTIVE EQUIPMENT. VENTILATE AREA. DIKE TO CONTAIN. ABSORB ON SAND. LIGHTLY DUST WITH SODA ASH.

LIGHTLY SPRAY WITH WATER. COMPLETELY NEUTRALIZE WITH MINIMUM OF WATER REACTS WITH WATER TO GIVE HYDROGEN GAS.

**Neutralizing Agent:**

DRY SODA ASH

**Waste Disposal Methods:**

2 ENSURE COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. REPORTABLE QUANTITY (CWA/CERCLA): 1000 LBS SULFURIC ACID. 700 LBS THIS PRODUCT (PER MSDS).

**Handling And Storage Precautions:**

STORE IN A COOL, DRY, WELL VENTILATED AREA, IN TIGHTLY CLOSED CONTAINERS, AWAY FROM HEAT AND INCOMPATIBLE SUBSTANCES.

**Other Precautions:**

DO NOT STORE ON WOODEN FLOORS. SEPARATE FROM COMBUSTIBLES, ORGANICS, AND OTHER READILY OXIDIZABLE MATERIAL. ACID SHOULD ALWAYS BE ADDED SLOWLY TO WATER. WATER ADDED TO ACID CAUSES UNCONTROLLED BOILING AND SPLASHING. AVOID BREATHING FUMES.

## Fire and Explosion Hazard Information

**Flash Point Method:**

N/P

**Flash Point:**

**Flash Point Text:**

NONE

**Autoignition Temp:**

**Autoignition Temp Text:**

N/A

**Lower Limits:**

N/R

**Upper Limits:**

N/R

**Extinguishing Media:**

DRY CHEMICAL, FOAM, CARBON DIOXIDE. DO NOT ADD WATER OR OTHER LIQUID TO THE ACID. COOL CONTAINERS WITH WATER SPRAY.

**Fire Fighting Procedures:**

WEAR FULL PROTECTIVE CLOTHING AND NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

**Unusual Fire/Explosion Hazard:**

IT IS A STRONG OXIDIZER AND HEAT OF REACTION WITH REDUCING AGENTS/COMBUSTIBLES MAY CAUSE IGNITION. CAN REACT WITH METALS TO RELEASE FLAMMABLE HYDROGEN.

## Physical/Chemical Properties

**HCC:**

C1

**NRC/State LIC No:**

NOT RELEVANT

**Net Prop WT For Ammo:**

NO

**Boiling Point:**

=142.2C, 288.F

**B.P. Text:**

=5.C, 23.F

**M.P./F.P. Text:**

NO

**Decomp Temp:**

UNKNOWN

**Vapor Pres:**

UNKNOWN

**Vapor Density:**

UNKNOWN

**Volatile Org Content %:**

NO

**Spec Gravity:**

1.92

**VOC Pounds/Gallon:**

NO

**PH:**

N/K

**VOC Grams/Liter:**

NO

**Viscosity:**

UNKNOWN

**Evaporation Rate & Reference:**

UNKNOWN

**Solubility in Water:**

COMPLETE

**Appearance and Odor:**

COLORLESS, OILY, FUMING LIQUID WITH PENETRATING SULFUR TRIOXIDE ODOR.

**Percent Volatiles by Volume:**

N/K

**Corrosion Rate:**

UNKNOWN

**Conditions To Avoid Polymerization:**

N/R

## Toxicological Information

**Information:**

N/P

## MSDS Transport Information

**Information:**

N/P

## Regulatory Information

**Sara Title III Information:**

N/P

**Federal Regulatory Information:**

N/P

**State Regulatory Information:**

N/P

## Other Information

**Other Information:**

N/P

**Other:**

N/P