

# Material Safety Data Sheet

acc. to OSHA and ANSI

Printing date 08/02/2010

Reviewed on 07/29/2010

## 1 Identification of substance:

### Product details:

**Product name:** 4-Acetamidobenzenesulfonyl chloride

**Stock number:** A11511, L00866

### Manufacturer/Supplier:

Alfa Aesar, A Johnson Matthey Company  
Johnson Matthey Catalog Company, Inc  
30 Bond Street  
Ward Hill, MA 01835-8099  
Emergency Phone: (978) 521-6300  
CHEMTREC: (800) 424-9300  
Web Site: www.alfa.com

**Information Department:** Health, Safety and Environmental Department

### Emergency information:

During normal hours the Health, Safety and Environmental Department      After normal hours call  
Chemtrec at (800) 424-9300

## 2 Hazards identification

### Hazard description:



C Corrosive

### Information pertaining to particular dangers for man and environment

R 34 Causes burns

### Classification system

HMS ratings (scale 0-4)

(Hazardous Materials Identification System)

HEALTH	3
FIRE	1
REACTIVITY	2

Health (acute effects) = 3

Flammability = 1

Reactivity = 2

### GHS label elements



Danger

3 2/1B - Causes severe skin burns and eye damage

### Prevention:

Do not breathe dust/fume/gas/mist/vapours/spray

### Response:

IF SWALLOWED: rinse mouth Do NOT induce vomiting

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing Rinse skin with water/shower

IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do Continue rinsing

### Storage:

Store locked up

### Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations

## 3 Composition/Data on components:

### Chemical characterization:

**Description:** (CAS#)

4-Acetamidobenzenesulfonyl chloride CAS# 121-60-8)

**Identification number(s):**

**EINECS Number:** 204-485-1

## 4 First aid measures

**General information** Immediately remove any clothing soiled by the product

### After inhalation

Supply fresh air If required, provide artificial respiration Keep patient warm

Seek immediate medical advice

### After skin contact

Immediately wash with water and soap and rinse thoroughly

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Seek immediate medical advice

**After eye contact**

Rinse opened eye for several minutes under running water Then consult a doctor

**After swallowing** Seek immediate medical advice**5 Fire fighting measures****Suitable extinguishing agents** CO2, sand, extinguishing powder Do not use water**For safety reasons unsuitable extinguishing agents** Water**Special hazards caused by the material, its products of combustion or resulting gases:**

In case of fire, the following can be released.

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

Sulfur oxides (SOx)

Hydrogen chloride (HCl)

Possibly Hydrogen cyanide (HCN)

**Protective equipment:**

Wear self-contained respirator

Wear fully protective impervious suit

**6 Accidental release measures****Person-related safety precautions:**

Wear protective equipment Keep unprotected persons away

Ensure adequate ventilation

**Measures for environmental protection:**

Do not allow material to be released to the environment without proper governmental permits

**Measures for cleaning/collecting:**

Use neutralizing agent

Dispose contaminated material as waste according to item 13

Ensure adequate ventilation

**Additional information:**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment

See Section 13 for disposal information

**7 Handling and storage****Handling****Information for safe handling:**

Handle under dry protective gas

Keep container tightly sealed

Store in cool, dry place in tightly closed containers

Ensure good ventilation at the workplace

**Information about protection against explosions and fires:** Keep ignition sources away**Storage****Requirements to be met by storerooms and receptacles:** No special requirements**Information about storage in one common storage facility:**

Store away from water/moisture

Store away from oxidizing agents

Store away from strong bases

**Further information about storage conditions:**

Store under dry inert gas

This product is moisture sensitive

Keep container tightly sealed

Store in cool, dry conditions in well sealed containers

Protect from humidity and water

**8 Exposure controls and personal protection****Additional information about design of technical systems:**

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute

**Components with limit values that require monitoring at the workplace:** Not required**Additional information:** No data**Personal protective equipment****General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed

Keep away from foodstuffs, beverages and feed

Remove all soiled and contaminated clothing immediately

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Wash hands before breaks and at the end of work

Avoid contact with the eyes and skin

**Breathing equipment:** Use suitable respirator when high concentrations are present**Protection of hands:**

Impervious gloves

Check protective gloves prior to each use for their proper condition

**Material of gloves**The selection of suitable gloves not only depends on the material, but also on quality  
Quality will vary from manufacturer to manufacturer**Eye protection:**

Safety glasses

Tightly sealed goggles

Full face protection

**Body protection:** Protective work clothing**9 Physical and chemical properties:****General Information**

<b>Form:</b>	Powder
<b>Color:</b>	Off-white
<b>Odor:</b>	Not determined

**Change in condition****Melting point/Melting range:** 146°C (295°F) (approx/dec)**Boiling point/Boiling range:** Not determined**Sublimation temperature / start:** Not determined**Ignition temperature:** Not determined**Decomposition temperature:** Not determined**Danger of explosion:** Product does not present an explosion hazard**Explosion limits:****Lower:** Not determined**Upper:** Not determined**Vapor pressure:** Not determined**Density:** Not determined**Solubility in / Miscibility with****Water:** Insoluble**10 Stability and reactivity****Thermal decomposition / conditions to be avoided:**

Decomposition will not occur if used and stored according to specifications

**Materials to be avoided:**

Water/moisture

Oxidizing agents

Bases

**Dangerous reactions** No dangerous reactions known**Dangerous products of decomposition:**

Carbon monoxide and carbon dioxide

Nitrogen oxides

Sulfur oxides (SOx)

Hydrogen chloride (HCl)

Possibly Hydrogen cyanide (HCN)

**11 Toxicological information****Acute toxicity:****LD/LC50 values that are relevant for classification:**

Oral	LD50	1600 mg/kg (mouse)
		>3200 mg/kg (rat)

**Primary irritant effect:****on the skin:** Corrosive effect on skin and mucous membranes**on the eye:** Strong corrosive effect**Sensitization:** No sensitizing effects known**Subacute to chronic toxicity:**

Corrosive materials are acutely destructive to the respiratory tract, eyes, skin and digestive tract Eye contact may result in permanent damage and complete vision loss

Inhalation may result in respiratory effects such as inflammation, edema, and chemical

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pneumonitis May cause coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting Ingestion may cause damage to the mouth, throat and esophagus May cause skin burns or irritation depending on the severity of the exposure

**Additional toxicological information:**

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known

Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH

**12 Ecological information:****Additional ecological information:****General notes:**

Do not allow material to be released to the environment without proper governmental permits

**13 Disposal considerations****Product:**

**Recommendation** Consult state, local or national regulations to ensure proper disposal

**Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations

**14 Transport information****DOT regulations:**

**Hazard class:** 8  
**Identification number:** UN3261  
**Packing group:** II  
**Proper shipping name (technical name):** CORROSIVE SOLID, ACIDIC, ORGANIC, N O S (N-Acetylsulfanilyl chloride)  
**Label:** 8

**Land transport ADR/RID (cross-border)**

**ADR/RID class:** 8 C4) Corrosive substances  
**Danger code (Kemler):** 80  
**UN-Number:** 3261  
**Packaging group:** II  
**Description of goods:** 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N O S (N-Acetylsulfanilyl chloride)

**Maritime transport IMDG:**

**IMDG Class:** 8  
**UN Number:** 3261  
**Label:** 8  
**Packaging group:** II  
**Marine pollutant:** No  
**Segregation groups:** Acids

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**Proper shipping name:** CORROSIVE SOLID, ACIDIC, ORGANIC, N O S (N-Acetylsulfanilyl chloride)

**Air transport ICAO-TI and IATA-DGR:**



**ICAO/IATA Class:** 8  
**UN/ID Number:** 3261  
**Label:** 8  
**Packaging group:** II  
**Proper shipping name:** CORROSIVE SOLID, ACIDIC, ORGANIC, N O S (N-Acetylsulfanilyl chloride)

**UN 'Model Regulation':** UN3261, CORROSIVE SOLID, ACIDIC, ORGANIC, N O S , 8, II

## 15 Regulations

**Product related hazard informations:**

**Hazard symbols:**  
 C Corrosive

**Risk phrases:**  
 34 Causes burns

**Safety phrases:**  
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection  
 45 In case of accident or if you feel unwell, seek medical advice immediately

**National regulations**

All components of this product are listed in the U S Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory

All components of this product are listed on the Canadian Domestic Substances List (DSL)

**Information about limitation of use:** For use only by technically qualified individuals

## 16 Other information:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

**Department issuing MSDS:** Health, Safety and Environmental Department

**Contact:** Zachariah Holt

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the 'International Air Transport Association' (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the 'International Civil Aviation Organization' (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

HMS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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