SIGMA-ALDRICH

Material Safety Data Sheet

Version 3.0 Revision Date 08/27/2009 Print Date 03/21/2011

Product name	[:] α-Acetylphenylacetonitrile				
Draduat Number	: 190659	,			
Product Number Brand	: Aldrich				
Company	: Sigma-Aldrich				
	3050 Spruce Street SAINT LOUIS MO 63103				
	USA				
Telephone	: +1800325583				
Fax	: +1800325505				
Emergency Phone #	: (314) 776-655	00			
OMPOSITION/INFORMA	ATION ON INGREDIEN	TS			
Synonyms	: 2-Phenylaceto	pacetonitrile			
Formula	: C ₁₀ H ₉ NO				
Molecular Weight	: 159.18 g/mol				
CAS-No.	EC-No.	Index-No.	Concentration		
			Concentration		
α-Acetylphenylaceton 4468-48-8	224-737-4				
4400-40-0	224-737-4	-	-		
AZARDS IDENTIFICATI					
OSHA Hazards					
Irritant					
Irritant HMIS Classification	2				
Irritant HMIS Classification Health Hazard:	2 0				
Irritant HMIS Classification					
Irritant HMIS Classification Health Hazard: Flammability: Physical hazards:	0				
Irritant HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard:	0 0 2				
Irritant HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard: Fire:	0 0 2 0				
Irritant HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard: Fire: Reactivity Hazard:	0 0 2 0 0				
Irritant HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard: Fire: Reactivity Hazard: Potential Health Effects	0 0 2 0 0				
Irritant HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard: Fire: Reactivity Hazard: Potential Health Effects Inhalation	0 0 2 0 0 5 May be harmful if inf	naled. Causes respiratory tract			
Irritant HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard: Fire: Reactivity Hazard: Potential Health Effects Inhalation Skin	0 0 2 0 0 5 May be harmful if inh May be harmful if ab	sorbed through skin. Causes			
Irritant HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard: Fire: Reactivity Hazard: Potential Health Effects Inhalation	0 0 2 0 0 5 May be harmful if inf	sorbed through skin. Causes s			

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Flammable properties Flash point

no data available

Ignition temperature no data available

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves.

Eye protection

Safety glasses with side-shields conforming to EN166

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	powder	
Colour	white	

Colour	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~

Safety data

рН	no data available
Melting point	92 - 94 °C (198 - 201 °F) - lit
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents, Strong bases

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen cyanide (hydrocyanic acid)

11. TOXICOLOGICAL INFORMATION

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Acute toxicity

Inhalation: no data available

LD50 Intraperitoneal - mouse - 200 mg/kg

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin Eves	May be harmful if absorbed through skin. Causes skin irritation. Causes eye irritation.
Ingestion	May be harmful if swallowed.

Additional Information RTECS: AL7708000

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

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14. TRANSPORT INFORMATION

DOT (US)

UN-Number: 3439 Class: 6.1 Packing group: III Proper shipping name: Nitriles, toxic, solid, n.o.s. (α-Acetylphenylacetonitrile) Marine pollutant: No Poison Inhalation Hazard: No

IMDG

UN-Number: 3439 Class: 6.1 Packing group: III EMS-No: F-A, S-A Proper shipping name: NITRILES, TOXIC, SOLID, N.O.S. (α-Acetylphenylacetonitrile) Marine pollutant: No

IATA

UN-Number: 3439 Class: 6.1 Packing group: III Proper shipping name: Nitriles, toxic, solid n.o.s. (α-Acetylphenylacetonitrile)

15. REGULATORY INFORMATION

OSHA Hazards

Irritant

DSL Status

All components of this product are on the Canadian DSL list.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

Pennsylvania Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

remissivania Right to Rhow Components	CAS-No.	Revision Date
α-Acetylphenylacetonitrile	4468-48-8	
New Jersey Right To Know Components		
α-Acetylphenylacetonitrile	CAS-No. 4468-48-8	Revision Date
d-Acetylphenylacetonithe	4400-40-0	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Further information

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