SIGMA-ALDRICH

Material Safety Data Sheet

Version 3.0 Revision Date 08/22/2009 Print Date 03/07/2011

RODUCT AND COMPA	NY IDENTIFICATION			
Product name	: o-Phenylene	diacetonitrile		
Dreduct Number				
Product Number Brand	: P23601 : Aldrich			
Dialiu	. Alunch			
Company	: Sigma-Aldrich			
	3050 Spruce S			
	SAINT LOUIS	MO 63103		
- · ·	USA			
Telephone	: +18003255832			
Fax	: +18003255052			
Emergency Phone #	: (314) 776-6555)		
OMPOSITION/INFORM	ATION ON INGREDIENT	ſS		
Synonyms	: 1,2-Bis(cyanon	nethyl)benzene		
	o-Xylylene dicy			
_ .				
Formula	: C ₁₀ H ₈ N ₂			
Molecular Weight	: 156.18 g/mol			
CAS-No.	EC-No.	Index-No.	Concentration	
o-Phenylenediaceton	itrile	·		
613-73-0	210-351-3	-	-	
AZARDS IDENTIFICAT	ION			
Emergency Overview				
OSHA Hazards No known OSHA ha	zorde			
	22105			
HMIS Classification				
Health Hazard:	0			
Flammability:	0			
Physical hazards:	0			
NFPA Rating				
Health Hazard:	0			
Fire:	0			
Reactivity Hazard:	0			
Potential Health Effect	-			
Inhalation		aled. May cause respiratory		
Skin		orbed through skin. May ca	ause skin irritation.	
Eyes	May cause eye irritati			
rich - P23601		Sigma-Aldrich Corporation www.sigma-aldrich.com		Page

Ingestion

May be harmful if swallowed.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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.

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

For prolonged or repeated contact use protective 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.

lit.

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	crystalline
Colour	light brown
Safety data	
рН	no data available
Melting point	57 - 59 °C (135 - 138 °F) -
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 acids, Strong bases, Strong oxidizing agents, Strong reducing agents

Hazardous decomposition products

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

11. TOXICOLOGICAL INFORMATION

Acute toxicity

no data available

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

May be harmful if swallowed. FORMATION prmation (persistence and degradability) e sets e ation on ecology e SIDERATIONS rral, state, and local environmental regulations. packaging nused product. FORMATION oods oods oods NFORMATION A hazards	Page 4 o		
May be harmful if swallowed. FORMATION preation (persistence and degradability) e sets e ation on ecology e SIDERATIONS rral, state, and local environmental regulations. packaging nused product. FORMATION oods oods oods oods			
May be harmful if swallowed. FORMATION promation (persistence and degradability) e sets e ation on ecology e SIDERATIONS eral, state, and local environmental regulations. packaging used product. FORMATION oods oods			
May be harmful if swallowed. FORMATION promation (persistence and degradability) e sets e ation on ecology e SIDERATIONS eral, state, and local environmental regulations. packaging used product. FORMATION oods oods			
May be harmful if swallowed.			
May be harmful if swallowed.			
May be harmful if swallowed.			
May be harmful if swallowed. NFORMATION prmation (persistence and degradability) e ects e ation on ecology e SIDERATIONS eral, state, and local environmental regulations. packaging nused product.			
May be harmful if swallowed.			
May be harmful if swallowed. NFORMATION prmation (persistence and degradability) e ects e ation on ecology e SIDERATIONS aral, state, and local environmental regulations.			
May be harmful if swallowed. NFORMATION ormation (persistence and degradability) e ects e ation on ecology e SIDERATIONS			
May be harmful if swallowed. NFORMATION ormation (persistence and degradability) e ects e ation on ecology e			
May be harmful if swallowed. NFORMATION prmation (persistence and degradability) e ects e ation on ecology			
May be harmful if swallowed. NFORMATION prmation (persistence and degradability) e ects e ation on ecology			
May be harmful if swallowed. NFORMATION prmation (persistence and degradability) e ects			
May be harmful if swallowed. NFORMATION prmation (persistence and degradability) e			
May be harmful if swallowed.			
May be harmful if swallowed.			
May be harmful if swallowed.			
May be harmful if swallowed.			
May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation.			
n Effects			
ur knowledge, the chemical, physical, and toxicological properties have not been thoroughly			
ptoms of Exposure			
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.			
a known or anticipated carcinogen by NTP.			
a carcinogen or potential carcinogen by ACGIH. No component of this product present at levels greater than or equal to 0.1% is identified as			
No component of this product present at levels greater than or equal to 0.1% is identified as			
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.			
or No a No a No a No a	o component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by ACGIH. o component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated carcinogen by NTP. o component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA. toms of Exposure r knowledge, the chemical, physical, and toxicological properties have not been thoroughly Effects May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation.		

irements of SARA Ti known CAS number tion 313.	
	rs that exceed the
	Devision Data
CAS-No. 613-73-0	Revision Date
CAS-No. 613-73-0	Revision Date
	CAS-No.

16. OTHER INFORMATION

Further information

Copyright 2009 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.