SIGMA-ALDRICH

Material Safety Data Sheet

	Version 3.0
Revision Date	08/29/2008
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	NY IDENTIFICATION			
		N I -		
Product name	∶ 1-(4-Fluoroph	enyl)piperazine		
Product Number	: 191337			
Brand	: Aldrich			
Company	: Sigma-Aldrich	re et		
	3050 Spruce St SAINT LOUIS M			
Talanhana	USA : +18003255832			
Telephone Fax	: +18003255052			
Emergency Phone #	: (314) 776-6555			
OMPOSITION/INFORM	ATION ON INGREDIENT	3		
Formula	: C10H13FN2			
Molecular Weight	: 180.22 g/mol			
CAS-No.	EC-No.	Index-No.	Concentration	
1-(4'-Fluorophenyl)pi	perazine			
2252-63-3	218-846-6	-	-	
AZARDS IDENTIFICAT	ION			
Emergency Overview OSHA Hazards Toxic by ingestion, I HMIS Classification Health Hazard:	rritant 2			
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Emergency Overview OSHA Hazards Toxic by ingestion, I HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard: Fire: Reactivity Hazard: Potential Health Effect Inhalation Skin Eyes	rritant 2 1 0 2 1 0 s May be harmful if inha May be harmful if abso Causes eye irritation.			
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Emergency Overview OSHA Hazards Toxic by ingestion, I HMIS Classification Health Hazard: Flammability: Physical hazards: NFPA Rating Health Hazard: Fire: Reactivity Hazard: Potential Health Effect Inhalation Skin Eyes	rritant 2 1 0 2 1 0 5 May be harmful if inha May be harmful if abso Causes eye irritation. Toxic if swallowed.			

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

113.00 °C (235.40 °F) - closed cup

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

Handle with gloves.

Eye protection

Safety glasses

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	solid
Sa	afety data	
	рН	no data available
	Melting point	30 - 33 °C (86 - 91 °F)
	Boiling point	118 - 123 °C (244 - 253 °F) at 0.1 hPa (0.1 mmHg)
	Flash point	113.00 °C (235.40 °F) - closed cup
	Ignition temperature	no data available
	Lower explosion limit	no data available
	Upper explosion limit	no data available
	Water solubility	no data available
	Partition coefficient: n-octanol/water	log Pow: 1.257

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid Acid chlorides, Acid anhydrides

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen fluoride

11. TOXICOLOGICAL INFORMATION

Acute toxici	ty	
no data avai	able	
Irritation and	d corrosion	
no data avai	able	
Sensitisatio	n	
no data avai	able	
Chronic exp	osure	
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as	
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	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.	
Potential Hea	alth Effects	
Inhalatior Skin Eyes Ingestion	May be harmful if absorbed through skin. Causes skin irritation. Causes eye irritation.	
2. ECOLOGICAL		
	nformation (persistence and degradability)	
no data availa	able	
Ecotoxicity e	ffects	
no data availa	able	
Toxicity to	fish LC50 - Pimephales promelas (fathead minnow) - 402.6 mg/l - 96 h	
Further information on ecology		
no data availa	able	
3. DISPOSAL CO	DNSIDERATIONS	
	ederal, state, and local environmental regulations. Contact a licensed professional waste disposal pose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical	

Contaminated packaging

Dispose of as unused product.

incinerator equipped with an afterburner and scrubber.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

ΙΑΤΑ

Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards

Toxic by ingestion, Irritant

DSL Status

This product contains the following components that are not on the Canadian DSL nor NDSL lists.

1-(4'-Fluorophenyl)piperazine	CAS-No. 2252-63-3	
SARA 302 Components SARA 302: No chemicals in this material are subject to the repo	rting requirements of SARA Tit	le III, Section 302.
SARA 313 Components SARA 313: This material does not contain any chemical compor threshold (De Minimis) reporting levels established by SARA Tit		s that exceed the
SARA 311/312 Hazards Acute Health Hazard		
Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know	/ Act.	
Pennsylvania Right To Know Components		
1-(4'-Fluorophenyl)piperazine	CAS-No. 2252-63-3	Revision Date
New Jersey Right To Know Components		
	CAS-No.	Revision Date
1-(4'-Fluorophenyl)piperazine	2252-63-3	
California Prop. 65 Components		

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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