

Safety Data Sheet 3630745 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/13/2015 Version: 1.0

SECTION 1: Identification		
1.1. Identification		
Product form	: Substance	
Substance name	: 1-Chloro-2,5-diamino-4-fluorobenzene	
CAS No : 517920-72-8		
Product code	: 3630-7-45	
Formula	: C6H6CIFN2	
Synonyms	: 2-Chloro-5-fluorophenylene-1,4-diamine	
Other means of identification	: MFCD03094273	
1.2. Relevant identified uses of the	substance or mixture and uses advised against	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development	
1.3. Details of the supplier of the sa	fety data sheet	
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Ameri T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlab		
1.4. Emergency telephone number		
Emergency number	: (844) 523-4086 (3E Company - Account 10069)	
Classification (CHC UC)		
Classification (GHS-US)Acute Tox. 4 (Oral)H302 - Harmful if sw.Skin Irrit. 2H315 - Causes skin iEye Dam. 1H318 - Causes serioSTOT SE 3H335 - May cause refFull text of H-phrases: see section 16	irritation bus eye damage	
Acute Tox. 4 (Oral)H302 - Harmful if swSkin Irrit. 2H315 - Causes skin iEye Dam. 1H318 - Causes serioSTOT SE 3H335 - May cause re	irritation bus eye damage	
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Acute Tox. 4 (Oral) H302 - Harmful if sw. Skin Irrit. 2 H315 - Causes skin i Eye Dam. 1 H318 - Causes serio STOT SE 3 H335 - May cause re Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	irritation bus eye damage espiratory irritation : : : : : : : : : : : : : : : : : : :	
Acute Tox. 4 (Oral)       H302 - Harmful if sw.         Skin Irrit. 2       H315 - Causes skin i         Eye Dam. 1       H318 - Causes serio         STOT SE 3       H335 - May cause reference         Full text of H-phrases: see section 16         2.2.       Label elements         GHS-US labeling	irritation bus eye damage espiratory irritation	
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	P362+P364 - Take off contami	nated clothing and wash it be	efore reuse	
	P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant			
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)	)			
Not applicable				
SECTION 3: Composition/informat	tion on ingredients			
3.1. Substance				
Substance type	: Mono-constituent			
Name	Product identifier	%	Classification (GHS-US)	
1-Chloro-2,5-diamino-4-fluorobenzene (Main constituent)	(CAS No) 517920-72-8	<= 100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general	: In case of accident or if you fee where possible). Move the affe		,	
First-aid measures after inhalation	: Remove person to fresh air an respiration. Get immediate me		ning. If not breathing, give artificial	
First-aid measures after skin contact	: Wash with plenty of soap and	water. Get immediate medica	l advice/attention.	
First-aid measures after eye contact	neasures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, present and easy to do. Continue rinsing. Get immediate medical advice/attention.			
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.			
4.2. Most important symptoms and eff	fects, both acute and delayed			
Symptoms/injuries	: The most important known syn 2.2) and/or in section 11.	: The most important known symptoms and effects are described in the labelling (see section		
4.3. Indication of any immediate medi	cal attention and special treatment	needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Alcohol resistant foam. Carbon appropriate for surrounding fire		spray. Use extinguishing media	
5.2. Special hazards arising from the	substance or mixture			
Fire hazard	: Thermal decomposition genera Nitrogen oxides.	ates: Carbon oxides. Hydroge	en chloride. Hydrogen fluoride.	
5.3. Advice for firefighters				
Firefighting instructions	: In case of fire: Evacuate area.			
Protection during firefighting	: Wear gas tight chemically prote apparatus. For further informat		with self contained breathing ure controls/personal protection".	
SECTION 6: Accidental release me				
6.1. Personal precautions, protective	equipment and emergency proced	ures		
General measures	: Evacuate unnecessary person	nel. Ensure adequate air vent	tilation. Do not breathe dust.	
6.1.1. For non-emergency personnel Emergency procedures	: Only qualified personnel equip	ped with suitable protective e	quipment may intervene.	

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6.1.2. For	emergency responders	
Protective equ	Jipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Env	rironmental precautions	
Avoid release	to the environment. Notify author	es if product enters sewers or public waters.
6.3. Met	hods and material for containm	nt and cleaning up
For containme	ent	: Stop leak if safe to do so.
Methods for cl	leaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other informat	tion	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Refe	erence to other sections	
No additional	information available	
SECTION 7	7: Handling and storage	
7.1. Pre	cautions for safe handling	
Precautions fo	or safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene meas	sures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink c smoke when using this product. Always wash hands after handling the product.
7.2. Con	nditions for safe storage, includ	g any incompatibilities
Technical mea	asures	: Comply with applicable regulations.
Storage condi	tions	: Keep container closed when not in use.
Incompatible r	materials	: Refer to Section 10 on Incompatible Materials.
Ctorogo orog		· Store in dry, and well ventilated area

Storage area : Store in dry, cool, well-ventilated area.

## SECTION 8: Exposure controls/personal protection

### **Control parameters** 8.1.

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

## **SECTION 9: Physical and chemical properties**

nd chemical properties
: Solid
: No data available

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Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 160.58 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

#### 9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity			
10.1.	Reactivity		
No add	itional information available		
10.2.	Chemical stability		
The pro	oduct is stable at normal handling and storage conditions.		
10.3.	Possibility of hazardous reactions		
No add	itional information available		
10.4.	Conditions to avoid		
Keep a	way from heat, sparks and flame.		
10.5.	Incompatible materials		
Strong	oxidizing agents.		
10.6.	Hazardous decomposition products		
Under r	normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of		

fire, see Section 5.

# **SECTION 11: Toxicological information**

11.1. Information on toxicological effects

Acute toxicity	: Oral: Harmful if swallowed.
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTI	SECTION 12: Ecological information				
12.1.	Toxicity				
No addit	ional information available				
12.2.	Persistence and degradability				
No addit	No additional information available				
12.3.	Bioaccumulative potential				
No additional information available					
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### 12.4. Mobility in soil

## No additional information available

## 12.5. Other adverse effects

No additional information available

13.1. Waste treatment methods		
Waste treatment methods	: Remove to an authorized incinerator equipp	bed with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance	e with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.	
SECTION 14: Transport information	n	
Department of Transportation (DOT)		
In accordance with DOT		
Not regulated for transport		
TDG		
No additional information available		
Transport by sea		
No additional information available		
Air transport		
No additional information available	on	
No additional information available SECTION 15: Regulatory informatio	on	
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No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations All components of this product are listed, or example.	xcluded from listing, on the United States Enviror	nmental Protection Agency Toxic
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No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations All components of this product are listed, or ex- Substances Control Act (TSCA) inventory exc 1-Chloro-2,5-diamino-4-fluorobenzene This product or mixture does not contain a tox CFR §372.38(a) subject to the reporting require	xcluded from listing, on the United States Environ cept for: CAS No 517920-72-8 kic chemical or chemicals in excess of the applica	100% able de minimis concentration as specified in 40
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No additional information available

## 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

## **SECTION 16: Other information**

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Full tex	t of H-phrases:	
	Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
	Eye Dam. 1	Serious eye damage/eye irritation Category 1
	Skin Irrit. 2	Skin corrosion/irritation Category 2
	STOT SE 3	Specific target organ toxicity (single exposure) Category 3
	H302	Harmful if swallowed
	H315	Causes skin irritation
	H318	Causes serious eye damage
	H335	May cause respiratory irritation
NFPA	health hazard fire hazard reactivity	<ul> <li>3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.</li> <li>1 - Must be preheated before ignition can occur.</li> <li>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</li> </ul>
	II Rating	
Health		: 2 Moderate Hazard - Temporary or minor injury may occur
Flamm	ability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)	
Physic	al	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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 offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.