

## 2,2'-Diaminodiphenylsulfide Safety Data Sheet 76661X3 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/23/2018 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 2,2'-Diaminodiphenylsu	fide	
CAS No	: 5873-51-8		
Product code	: 7666-1-X3		
Formula	: C12H12N2S		
Other means of identification	: MFCD03094662		
		advised against	
I.2. Relevant identified uses of the substance/mixture	: Laboratory chemicals	advised against	
	Manufacture of substan Scientific research and		
I.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	са		
<sup>-</sup> (386) 462-0788 - F (386) 462-7097 nfo@synquestlabs.com - <u>www.synquestlab</u>	s com		
.4. Emergency telephone number	<u></u>		
Emergency number	: (844) 523-4086 (3E Co	npany - Account 10069)	
		· · · · ·	
SECTION 2: Hazard(s) identificat	ion		
2.1. Classification of the substance	or mixture		
Classification (GHS-US)			
Skin Irrit. 2 H315 - Causes skin irritation			
Eye Irrit. 2A H319 - Causes serious eye			
STOT SE 3 H335 - May cause respirato			
Full text of H-phrases: see section 16			
·			
.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	: 🔨		
ignal word (GHS-US)	GHS07		
0 ( )	: Warning	tion	
lazard statements (GHS-US)	: H315 - Causes skin irrit H319 - Causes serious		
	H335 - May cause resp		
Precautionary statements (GHS-US)	: P261 - Avoid breathing	-	
	P264 - Wash skin thoro		
		rs or in a well-ventilated area	
	•	gloves/protective clothing/eye protection/face protec	tion
		Wash with plenty of soap and water Remove person to fresh air and keep comfortable for	or breathing
		eyes: Rinse cautiously with water for several minute	•
		asy to do. Continue rinsing	
	P312 - Call a POISON	CENTER or doctor/physician if you feel unwell	
	•	nt (see supplemental first aid instructions on this lab	el)
		ation occurs: Get medical advice/attention	
		ation persists: Get medical advice/attention ontaminated clothing and wash it before reuse	
		well-ventilated place. Keep container tightly closed	
	P405 - Store locked up		
	P405 - Store locked up	nts/container to an approved waste disposal plant	
	P405 - Store locked up	nts/container to an approved waste disposal plant	

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N 77 No. 58 / Monday, March 26, 2012 / Rules and Regulatic

S)			
ation on in	gredients		
: Mono	o-constituent		
	Product identifier	%	Classification (GHS-US)
	(CAS No) 5873-51-8	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
		I	
S			
where	e possible). Move the affected	personnel away from th	e contaminated area.
respi	ration. Get medical advice/atter	tion.	0 0/0
prese	ent and easy to do. Continue rin	sing. Get medical advi	ce/attention.
			an unconscious person. Rinse
effects, both	acute and delayed		
		s and effects are desci	ibed in the labelling (see section
dical attentio	n and angoial treatment page		
uicai allentio	n and special treatment need	ed	
	in and special treatment need	ed	
	n and special treatment need	ed	
es	n and special treatment need	ed	
es : Alcoh			spray. Use extinguishing media
es : Alcoh appro	nol resistant foam. Carbon dioxi opriate for surrounding fire.		spray. Use extinguishing media
ES : Alcoh appro	nol resistant foam. Carbon dioxi opriate for surrounding fire. or mixture	de. Dry powder. Water	
ES : Alcoh appro	nol resistant foam. Carbon dioxi opriate for surrounding fire.	de. Dry powder. Water	
es : Alcof appro e substance : Therr	nol resistant foam. Carbon dioxi opriate for surrounding fire. or mixture mal decomposition generates: (	de. Dry powder. Water	
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e substance : Therr : In cas : Wear	nol resistant foam. Carbon dioxi opriate for surrounding fire. or mixture mal decomposition generates: ( se of fire: Evacuate area.	de. Dry powder. Water Carbon oxides. Nitroger clothing in combinatior	n oxides. Sulfur oxides.
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e substance e substance e : Therr : In car : Wear appa neasures re equipment : Evac	nol resistant foam. Carbon dioxi opriate for surrounding fire. or mixture mal decomposition generates: ( se of fire: Evacuate area. r gas tight chemically protective ratus. For further information re and emergency procedures uate unnecessary personnel. E	de. Dry powder. Water Carbon oxides. Nitroger clothing in combination fer to section 8: "Expos	n oxides. Sulfur oxides. n with self contained breathing sure controls/personal protection". tilation. Do not breathe dust.
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	ation on in : Mono : Mono : In ca when : Rem respi : Wasł : Imme prese : Do N mout effects, both : The r 2.2) a	ation on ingredients         : Mono-constituent         Product identifier         (CAS No) 5873-51-8         (CAS No) 5873-51-8         : In case of accident or if you feel unw where possible). Move the affected p         : Remove person to fresh air and keep respiration. Get medical advice/atter         : Wash with plenty of soap and water.         : Immediately flush eyes thoroughly w present and easy to do. Continue rin         : Do NOT induce vomiting. Never give mouth out with water. Get medical advice #ffects, both acute and delayed         : The most important known symptom 2.2) and/or in section 11.	ation on ingredients         : Mono-constituent         Product identifier       %         (CAS No) 5873-51-8       <= 100

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Methods for cleaning up Other information	<ul> <li>Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.</li> <li>For disposal of solid materials or residues refer to section 13 : "Disposal considerations".</li> </ul>	
6.4.Reference to other sectionsNo additional information available		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for 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 measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, includ	ing any incompatibilities	
Technical measures	: Comply with applicable regulations.	
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Keep contents under inert gas.	
Incompatible materials	: Refer to Section 10 on Incompatible Materials.	

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

### SECTION 8: Exposure controls/personal protection

8.1. Control parameters

### 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	<ul> <li>In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.</li> </ul>
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

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

10/23/2018	EN (English US)	SDS ID: 76661X3	3/6
Log Pow	: No data available		
Solubility	: No data available		
Molecular mass	: 216.302 g/mol		
Relative vapor density at 20 °C	: No data available		
Relative density	: No data available		
Vapor pressure	: No data available		
Oxidizing properties	: No data available		
Explosive properties	: No data available		
Explosion limits	: No data available		
Flammability (solid, gas)	: No data available		
Relative evaporation rate (butyl acetate=1)	: No data available		
Flash point	: No data available		
Boiling point	: 161 - 162 °C (@ 1 mm Hg)		
Freezing point	: No data available		
Melting point	: 85 - 88 °C		
pH	: No data available		
Odor threshold	: No data available		
Odor	: No data available		
Color	: No data available		
Physical state	: Solid		
9.1. Information on basic physical and Physical state			

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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 additional information available

### 10.2. **Chemical stability**

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. **Conditions to avoid**

Keep away from heat, sparks and flame.

### 10.5. Incompatible materials

Strong acids. Strong oxidizing agents.

### Hazardous decomposition products 10.6.

Under 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	i de la constante de la constan	
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
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	

SECTIO	ON 12: Ecological information
12.1.	Toxicity
No additi	onal information available
12.2.	Persistence and degradability
No additi	onal information available
12.3.	Bioaccumulative potential
No additi	onal information available
12.4.	Mobility in soil
No additi	onal information available
12.5.	Other adverse effects
No additi	onal information available

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SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.	
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Additional information	: Recycle the material as far as possible.	

### **SECTION 14: Transport information**

### **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

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

2,2'-Diaminodiphenylsulfide	CAS No 5873-51-8	100%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

CANADA

No additional information available

### **EU-Regulations**

No additional information available

### National regulations

2,2'-Diaminodiphenylsulfide (5873-51-8) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the TCSI (Taiwan Chemical Substance Inventory)

### 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

### Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

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NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 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.