

2,4-Difluoro-2'-nitrodiphenylamine

Safety Data Sheet 4655308 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/06/2015 Version: 1.0

ECTION 1: Identification 1. Identification	
laonanoation	
roduct form	: Substance
ubstance name	: 2,4-Difluoro-2'-nitrodiphenylamine
AS No	: 500302-20-5
roduct code	: 4655-3-08
ormula	: C12H8F2N2O2
ynonyms	: 2,4-Difluoro-N-(2-nitrophenyl)benzenamine; NSC 93387
ther means of identification	: MFCD10567165
	e substance or mixture and uses advised against
se of the substance/mixture	: Laboratory chemicals
	Manufacture of substances Scientific research and development
.3. Details of the supplier of the s	afety data sheet
ynQuest Laboratories, Inc. .O. Box 309 lachua, FL 32615 - United States of Ame (386) 462-0788 - F (386) 462-7097	rica
fo@synquestlabs.com - www.synquestla	bs.com
4. Emergency telephone number	
mergency number	: (844) 523-4086 (3E Company - Account 10069)
kin Irrit. 2 H315 - Causes skin irritatio ye Irrit. 2A H319 - Causes serious eye TOT SE 3 H335 - May cause respirat	e irritation
ye Irrit. 2A H319 - Causes serious eye TOT SE 3 H335 - May cause respirate ull text of H-phrases: see section 16	e irritation
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ye Irrit. 2A H319 - Causes serious eye TOT SE 3 H335 - May cause respirate ull text of H-phrases: see section 16 2. Label elements HS-US labeling azard pictograms (GHS-US) ignal word (GHS-US)	e irritation ory irritation : GHS07 : Warning
ye Irrit. 2A H319 - Causes serious eye TOT SE 3 H335 - May cause respirate ull text of H-phrases: see section 16 .2. Label elements HS-US labeling azard pictograms (GHS-US)	e irritation ory irritation : : : : : : : : : : : : : : : : : : :

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2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	on ing	redients		
3.1. Substance				
Substance type :	Mono-	constituent		
Name		Product identifier	%	Classification (GHS-US)
2,4-Difluoro-2'-nitrodiphenylamine (Main constituent)		(CAS No) 500302-20-5	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 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 :		e of accident or if you feel unwell, seek r possible). Move the affected personnel		
First-aid measures after inhalation :		ve person to fresh air and keep comforta tion. Get medical advice/attention.	ble for breathin	g. If not breathing, give artificial
First-aid measures after skin contact :	Wash	with plenty of soap and water. Get medi	cal advice/atten	ition.
First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.				
First-aid measures after ingestion :		T induce vomiting. Never give anything out with water. Get medical advice/atter		unconscious person. Rinse
4.2. Most important symptoms and effects,	both a	cute and delayed		
Symptoms/injuries :		ost important known symptoms and effe id/or in section 11.	cts are describe	ed in the labelling (see section
4.3. Indication of any immediate medical at	tention	and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media :		I resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	wder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the substance or mixture				
Fire hazard :	Therm	al decomposition generates: Carbon oxi	des. Hydrogen	fluoride. Nitrogen oxides.
5.3. Advice for firefighters				
Firefighting instructions :	In case	e of fire: Evacuate area.		
Protection during firefighting :		gas tight chemically protective clothing in tus. For further information refer to sect		
SECTION 6: Accidental release measu	res			
6.1. Personal precautions, protective equip		nd emergency procedures		
		ate unnecessary personnel. Ensure ade	quate air ventila	ation. Do not breathe dust.
6.1.1. For non-emergency personnel	Only a	uslified personnel equipped with suitable	o protoctivo ogu	inment may intervene
Emergency procedures :	Only q	ualified personnel equipped with suitable	e protective equ	apment may intervene.
6.1.2. For emergency responders Protective equipment :		attempt to take action without suitable		ment. For further information
	reier to	o section 8: "Exposure controls/personal	protection".	
6.2. Environmental precautions				

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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6.3. Methods and material for contain	ment and cleaning up			
For containment	: Stop leak if safe to do so.			
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.			
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".			
6.4. Reference to other sections				
No 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, including	any incompatibilities
Technical measures	Comply with applicable regulations.
Storage conditions :	Keep container closed when not in use.
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	: 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

9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 91 - 93 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: >110 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
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	: 250.2 g/mol

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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

Other information 9.2.

No additional information available

SECTIO	ON 10: Stability and reactivity		
10.1.	Reactivity		
No additi	ional information available		
10.2.	Chemical stability		
The prod	luct is stable at normal handling and storage conditions.		
10.3.	Possibility of hazardous reactions		
No additi	ional information available		
10.4.	Conditions to avoid		
Keep awa	ay from heat, sparks and flame.		
10.5.	Incompatible materials		
Strong acids. Strong bases. Strong oxidizing agents.			
10.6.	Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.			
SECTIO	ON 11: Toxicological information		
11.1.	Information on toxicological effects		
Acute tox	xicity : Not classified		

Not classified

: Not classified

Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	 Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified Not classified
Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	Not classifiedMay cause respiratory irritation.Not classified

SECTION 12: Ecological information 12.1. **Toxicity** No additional information available 12.2. Persistence and degradability No additional information available 12.3. **Bioaccumulative potential** No additional information available 12.4. Mobility in soil No additional information available 12.5. Other adverse effects No additional information available

Aspiration hazard

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SECTION 13: Disposal considera	tions	
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 44. Tronger and information		
SECTION 14: Transport informati	on	
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 informa	tion	
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:		

2,4-Difluoro-2'-nitrodiphenylamine CAS	AS No 500302-20-5	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

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

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	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was 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.