

4',5'-Difluoro-2'-nitroacetanilide

Safety Data Sheet 4655301 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 01/06/2015 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 4',5'-Difluoro-2'-nitroacetanilide
CAS No	: 1662-21-1
Product code	: 4655-3-01
Formula	: C8H6F2N2O3
Other means of identification	: MFCD00143199
1.2. Relevant identified uses of the su	bstance 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 safet	ty data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificatio	n
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 irri	tation
STOT SE 3 H335 - May cause respiratory	irritation
Full text of H-phrases: see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention 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

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ccording to Federal Register / Vol. 77, No. 58 / Monda	ay, March 26	, 2012 / Rules and Regulations			
2.3. Other hazards					
lo additional information available					
4. Unknown acute toxicity (GHS US)					
lot applicable					
ECTION 3: Composition/informati	ion on in	gredients			
1. Substance					
ubstance type	: Mono	p-constituent			
Name		Product identifier	%	Classification (GHS-US)
4',5'-Difluoro-2'-nitroacetanilide (Main constituent)		(CAS No) 1662-21-1	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335	
Full text of H-phrases: see section 16		1		· ·	
.2. Mixture					
lot applicable					
SECTION 4: First aid measures					
.1. Description of first aid measures					
irst-aid measures general		se of accident or if you feel unwell, seek e possible). Move the affected personnel			1
First-aid measures after inhalation		ove person to fresh air and keep comfort ration. Get medical advice/attention.	able for breathin	g. If not breathing, give arti	ficial
First-aid measures after skin contact		with plenty of soap and water. Get med			
irst-aid measures after eye contact	prese	ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get	medical advice/	attention.	
irst-aid measures after ingestion	mout	OT induce vomiting. Never give anything h out with water. Get medical advice/atte		unconscious person. Rinse	Э
.2. Most important symptoms and eff					
Symptoms/injuries		nost important known symptoms and effo and/or in section 11.	ects are describe	ed in the labelling (see sect	lion
4.3. Indication of any immediate medic	al attentio	n and special treatment needed			
Freat symptomatically.					
SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable extinguishing media		nol resistant foam. Carbon dioxide. Dry p opriate for surrounding fire.	owder. Water sp	ray. Use extinguishing me	dia
5.2. Special hazards arising from the s	ubstance	or mixture			
ïre hazard	: Ther	mal decomposition generates: Carbon o>	ides. Hydrogen	fluoride. Nitrogen oxides.	
.3. Advice for firefighters					
Firefighting instructions	: In ca	se of fire: Evacuate area.			
Protection during firefighting		gas tight chemically protective clothing ratus. For further information refer to sec			
SECTION 6: Accidental release me					
6.1. Personal precautions, protective e				den Densell de La	
General measures	: Evac	uate unnecessary personnel. Ensure ade	equate air ventila	ation. Do not breathe dust.	
.1.1. For non-emergency personnel					
mergency procedures	: Only	qualified personnel equipped with suitab	le protective equ	ipment may intervene.	
.1.2. For emergency responders					
Protective equipment		ot attempt to take action without suitable to section 8: "Exposure controls/persona		ment. For further information	on
2. Environmental precautions					
void release to the environment. Notify autho	rities if proo	duct enters sewers or public waters.			
.3. Methods and material for containr	nent and c	leaning up			
or containment		leak if safe to do so.			
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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Vethods 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 section	ns
No additional information available	
SECTION 7: Handling and s	torage
7.1. Precautions for safe han	dling
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 stora	ge, including any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.

: Refer to Section 10 on Incompatible Materials.

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Incompatible materials

Storage area

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 an	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	: 106 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
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	: 216.14 g/mol
Solubility	: No data available
Log Pow	: No data available

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 reacti	vity	
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
The product is stable at normal handling an	d storage conditions.	
0.3. 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 bases. Strong oxidizing	g agents.	
10.6. Hazardous decomposition proc	lucts	
Under normal conditions of storage and use fire, see Section 5.	e, hazardous decomposition products should not be produced. Hazardous decomposition products in case of	
SECTION 11: Toxicological infor	mation	
11.1. Information on toxicological eff	ects	

Acute toxicity	: 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
Aspiration hazard	: Not classified

SECTION 12: Ecological information					
12.1.	Toxicity				
No addit	No additional information available				
12.2.	Persistence and degradability				
No addit	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 addit	No additional information available				

12/08/2016

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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:

4',5'-Difluoro-2'-nitroacetanilide	CAS No 1662-21-1	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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.