

2,3,4,5-Tetrafluorobenzamide Safety Data Sheet 2648301 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/08/2015 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	
	: 2,3,4,5-Tetrafluorobenzamide
CAS No	: 16582-94-8
Product code	: 2648-3-01
Formula	: C7H3F4NO
Other means of identification	: MFCD01631457
I.2. Relevant identified uses of the su	Ibstance 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 safe	ty data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America Γ (386) 462-0788 - F (386) 462-7097 <u>nfo@synquestlabs.com</u> - <u>www.synquestlabs</u> .	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance o	r mixture
Classification (GHS-US)	
Eye Irrit. 2A H319 - Causes serious eye irrit. STOT SE 3 H335 - May cause respiratory 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 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

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on on ingredients		
: Mono-constituent		
Product identifier	%	Classification (GHS-US)
(CAS No) 16582-94-8	<= 100	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
		ng. If not breathing, give artificial
: Wash with plenty of soap and water. G	Set medical advice/atte	ntion.
		n unconscious person. Rinse
ects, both acute and delayed		
: The most important known symptoms 2.2) and/or in section 11.	The most important known symptoms and effects are described in the labelling (see section	
al attention and special treatment neede	d	
: Alcohol resistant foam. Carbon dioxide appropriate for surrounding fire.	e. Dry powder. Water s	pray. Use extinguishing media
ubstance or mixture		
ubstance or mixture : Thermal decomposition generates: Ca	urbon oxides. Hydroger	ı fluoride. Nitrogen oxides.
	ırbon oxides. Hydroger	n fluoride. Nitrogen oxides.
: Thermal decomposition generates: Ca	rbon oxides. Hydroger	fluoride. Nitrogen oxides.
	lothing in combination	with self contained breathing
 Thermal decomposition generates: Ca In case of fire: Evacuate area. Wear gas tight chemically protective cl 	lothing in combination	with self contained breathing
 Thermal decomposition generates: Ca In case of fire: Evacuate area. Wear gas tight chemically protective cl apparatus. For further information refe 	lothing in combination	with self contained breathing
 Thermal decomposition generates: Ca In case of fire: Evacuate area. Wear gas tight chemically protective cl apparatus. For further information refe 	lothing in combination r to section 8: "Exposu	with self contained breathing re controls/personal protection".
 Thermal decomposition generates: Ca In case of fire: Evacuate area. Wear gas tight chemically protective cl apparatus. For further information refe 	lothing in combination r to section 8: "Exposu	with self contained breathing re controls/personal protection".
 Thermal decomposition generates: Ca In case of fire: Evacuate area. Wear gas tight chemically protective cl apparatus. For further information refe 	lothing in combination or to section 8: "Exposu sure adequate air venti	with self contained breathing re controls/personal protection". lation. Do not breathe dust.
 Thermal decomposition generates: Ca In case of fire: Evacuate area. Wear gas tight chemically protective cl apparatus. For further information refe ASURES quipment and emergency procedures Evacuate unnecessary personnel. Ens Only qualified personnel equipped with 	lothing in combination or to section 8: "Exposu sure adequate air venti n suitable protective ec	with self contained breathing re controls/personal protection". lation. Do not breathe dust. uipment may intervene.
 Thermal decomposition generates: Ca In case of fire: Evacuate area. Wear gas tight chemically protective cl apparatus. For further information refe ASURES Quipment and emergency procedures Evacuate unnecessary personnel. Ens 	lothing in combination r to section 8: "Exposu sure adequate air venti n suitable protective equi	with self contained breathing re controls/personal protection". lation. Do not breathe dust. uipment may intervene.
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	Mono-constituent Product identifier (CAS No) 16582-94-8 (CAS No) 16582-94-8 In case of accident or if you feel unwel where possible). Move the affected pe Remove person to fresh air and keep respiration. Get medical advice/attenti Wash with plenty of soap and water. G Immediately flush eyes thoroughly with present and easy to do. Continue rinsi Do NOT induce vomiting. Never give a mouth out with water. Get medical adv ects, both acute and delayed The most important known symptoms 2.2) and/or in section 11. al attention and special treatment needee Alcohol resistant foam. Carbon dioxide	on on ingredients : Mono-constituent (CAS No) 16582-94-8 (CAS No) 16582-94-8

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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 of 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 an	nd chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
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	: 193.1 g/mol
Solubility	: No data available
Log Pow	: No data available

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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 sto	prage conditions.
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Strong acids. Strong bases. Strong oxidizing age	ents. Strong reducing agents.
10.6. Hazardous decomposition products	ŝ
Under normal conditions of storage and use, has fire, see Section 5.	zardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological informat	lion
11.1. Information on toxicological effects	i de la companya de l
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	: 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

: Not classified

No additional information available

12.5. Other adverse effects

No additional information available

exposure)

Aspiration hazard

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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

Notregula

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:

2,3,4,5-Tetrafluorobenzamide	CAS No 16582-94-8	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

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.