

Safety Data Sheet 41221715 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/19/2017 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Ammonium-D4 formate-D >98 Atom % D
CAS No	: 65387-23-7
Product code	: 4122-1-715
Formula	: CH5NO2
Other means of identification	: MFCD06658909
I.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	y 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 - <u>www.synquestlabs.co</u>	
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)	
Eye Irrit. 2A H319 - Causes serious eye irri 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 P332+P313 - If skin irritation occurs: Get medical advice/attention P332+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

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

2.3. Other hazards			
lo additional information available			
.4. Unknown acute toxicity (GHS US	5)		
lot applicable			
SECTION 3: Composition/informa	tion on ingredients		
.1. Substance			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification (GHS-US)
Ammonium-D4 formate-D >98 Atom % D (Main constituent)	(CAS No) 65387-23-7	<= 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			
I.1. Description of first aid measures		will see the second	Server Berrick (1999) and the server
irst-aid measures general	 In case of accident or if you feel un where possible). Move the affected Remove person to fresh air and ke 	personnel away from the	e contaminated area.
	respiration. Get medical advice/atte	ntion.	
First-aid measures after skin contact	: Wash with plenty of soap and wate		
irst-aid measures after eye contact	: Immediately flush eyes thoroughly present and easy to do. Continue r	nsing. Get medical advic	e/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never giv mouth out with water. Get medical		in unconscious person. Rinse
I.2. Most important symptoms and e			
Symptoms/injuries	 The most important known sympton 2.2) and/or in section 11. 	ns and effects are descri	bed in the labelling (see section
4.3. Indication of any immediate med	lical attention and special treatment nee	ded	
	lical attention and special treatment nee	ded	
Freat symptomatically.		ded	
Freat symptomatically. SECTION 5: Firefighting measure		ded	
Treat symptomatically. SECTION 5: Firefighting measure 5.1. Extinguishing media			spray. Use extinguishing media
Treat symptomatically. SECTION 5: Firefighting measure 5.1. Extinguishing media Suitable extinguishing media	S : Alcohol resistant foam. Carbon dio: appropriate for surrounding fire.		spray. Use extinguishing media
Treat symptomatically. SECTION 5: Firefighting measure 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the	S : Alcohol resistant foam. Carbon dio: appropriate for surrounding fire.	ride. Dry powder. Water :	
Treat symptomatically. SECTION 5: Firefighting measure 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the Fire hazard	S : Alcohol resistant foam. Carbon dio: appropriate for surrounding fire. substance or mixture	ride. Dry powder. Water :	
Treat symptomatically. SECTION 5: Firefighting measure 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the Fire hazard 5.3. Advice for firefighters	S : Alcohol resistant foam. Carbon dio: appropriate for surrounding fire. : substance or mixture : Thermal decomposition generates: : In case of fire: Evacuate area.	ide. Dry powder. Water s Carbon oxides. Nitrogen	oxides.
Treat symptomatically. SECTION 5: Firefighting measure 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the Fire hazard 5.3. Advice for firefighters Firefighting instructions	S : Alcohol resistant foam. Carbon dio: appropriate for surrounding fire. substance or mixture : Thermal decomposition generates:	tide. Dry powder. Water s Carbon oxides. Nitrogen e clothing in combination	oxides. with self contained breathing
Treat symptomatically. SECTION 5: Firefighting measure 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the Fire hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release measure	S : Alcohol resistant foam. Carbon dio: appropriate for surrounding fire. : substance or mixture : Thermal decomposition generates: : In case of fire: Evacuate area. : Wear gas tight chemically protectiv apparatus. For further information reasures	tide. Dry powder. Water s Carbon oxides. Nitrogen e clothing in combination	oxides. with self contained breathing
Treat symptomatically. SECTION 5: Firefighting measure 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the Fire hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release m 5.1. Personal precautions, protective	S Alcohol resistant foam. Carbon dio: appropriate for surrounding fire. Substance or mixture Thermal decomposition generates: In case of fire: Evacuate area. Wear gas tight chemically protectiv apparatus. For further information reasures e equipment and emergency procedures	tide. Dry powder. Water s Carbon oxides. Nitrogen e clothing in combination efer to section 8: "Exposi	oxides. with self contained breathing ure controls/personal protection".
Treat symptomatically. SECTION 5: Firefighting measure 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the Fire hazard 5.3. Advice for firefighters Firefighting instructions Protection during firefighting SECTION 6: Accidental release means	S : Alcohol resistant foam. Carbon dio: appropriate for surrounding fire. : substance or mixture : Thermal decomposition generates: : In case of fire: Evacuate area. : Wear gas tight chemically protectiv apparatus. For further information reasures	tide. Dry powder. Water s Carbon oxides. Nitrogen e clothing in combination efer to section 8: "Exposi	oxides. with self contained breathing ure controls/personal protection".
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Treat symptomatically. SECTION 5: Firefighting measure Stinguishing media Suitable extinguishing media Suitable ext	S Alcohol resistant foam. Carbon dio: appropriate for surrounding fire. Substance or mixture Thermal decomposition generates: In case of fire: Evacuate area. Wear gas tight chemically protectiv apparatus. For further information reasures e equipment and emergency procedures	tide. Dry powder. Water s Carbon oxides. Nitrogen e clothing in combination efer to section 8: "Exposi Ensure adequate air vent	oxides. with self contained breathing ure controls/personal protection". ilation. Do not breathe dust.
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Safety Data Sheet

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

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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 storag	e
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, inc	luding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Hygroscopic. 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	: 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	: 119 - 121 °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
√apor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 67.08 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 r	eactivity
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handl	ing and storage conditions.
10.3. Possibility of hazardous	reactions
No additional information available	
10.4. Conditions to avoid	
Keep away from heat, sparks and flar	me.
10.5. Incompatible materials	
Strong acids. Strong oxidizing agents	j.
10.6. Hazardous decompositio	n products
Under normal conditions of storage a fire, see Section 5.	nd use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological	information
11.1. Information on toxicologi	cal effects
Acute toxicity	· Not classified

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

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

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:

Ammonium-D4 formate-D >98 Atom % D	CAS No 65387-23-7	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	: 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.