

Safety Data Sheet M011209 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/09/2021 Version: 1.0

SECTION 1: Identification	
1.1. Identification	• · ·
Product form	: Substance
Substance name	: Sodium monofluorophosphate
CAS No	: 10163-15-2
Product code	: M011-2-09
Formula	: FNa2O3P
Synonyms	: Disodium monofluorophosphate; Component CAS#: 13537-32-1; Sodium Salt CAS#: 7631-97- 2; Disodium Salt CAS#: 10163-15-2
Other means of identification	: MFCD00014248
Use of the substance/mixture	ance or mixture and uses advised against : Laboratory chemicals
Use of the substance/mixture	Manufacture of substances
	Scientific research and development
1.3. Details of the supplier of the safety d	ata sheet
SynQuest Laboratories, Inc.	
P.O. Box 309	
Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097	
info@synguestlabs.com - www.synguestlabs.com	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mi	xture
Classification (GHS-US)	
Acute Tox. 4 (Oral) H302 - Harmful if swallowe	d
Skin Irrit. 2 H315 - Causes skin irritatio	
Eye Irrit. 2A H319 - Causes serious eye	
STOT SE 3 H335 - May cause respirat	ory irritation
Full text of H-phrases: see section 16	
2.2. Label elements	
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GHS-US labeling	· •
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GHS-US labeling	
GHS-US labeling	
GHS-US labeling	
GHS-US labeling Hazard pictograms (GHS-US)	: GHS07
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: Warning
GHS-US labeling Hazard pictograms (GHS-US)	: Warning : H302 - Harmful if swallowed
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	: Warning
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell P302+P352 - If on skin: Wash with plenty of soap and water
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell 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
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell 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
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell 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
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell 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)
GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Warning H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation P261 - Avoid breathing dust, mist, spray P264 - Wash skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P312 - If swallowed: Call a POISON CENTER or doctor/ physician if you feel unwell 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

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	P405	2+P364 - Take off contaminated clc 3+P233 - Store in a well-ventilated 5 - Store locked up - Dispose of contents/container to	place. Keep contair	ner tightly closed
2.3. Other hazards				
lo additional information available				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/information	on on in	aredients		
3.1. Substance				
Substance type	: Mono	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
Sodium monofluorophosphate		(CAS No) 10163-15-2	76	Acute Tox. 4 (Oral), H302
(Main constituent)				Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
ull text of H-phrases: see section 16				
3.2. Mixture				
lot applicable				
SECTION 4: First aid measures				
.1. Description of first aid measures				
ïrst-aid measures general		se of accident or if you feel unwell, e possible). Move the affected pers		
irst-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.			
irst-aid measures after skin contact		n with plenty of soap and water. Ge		
irst-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 immediate medical advice/attention.			
irst-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.			
.2. Most important symptoms and effe	ects, both	acute and delayed		
Symptoms/injuries	: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.			
.3. Indication of any immediate medic	al attentio	n and special treatment needed		
reat symptomatically.				
SECTION 5: Firefighting measures				
.1. Extinguishing media				
Suitable extinguishing media		nol resistant foam. Carbon dioxide. opriate for surrounding fire.	Dry powder. Water	r spray. Use extinguishing media
5.2. Special hazards arising from the s	ubstance	or mixture		
ire hazard		mal decomposition generates: Hyd	rogen fluoride. Pho	sphorus oxides. Sodium oxides.
Advice for firefighters				
Firefighting instructions	: In case of fire: Evacuate area.			
Protection during firefighting	: Wear	r gas tight chemically protective clo ratus. For further information refer		
SECTION 6: Accidental release mea	asures			
.1. Personal precautions, protective e		and emergency procedures		
General measures	: Evac	uate unnecessary personnel. Ensu	ire adequate air ver	ntilation. Do not breathe dust.
	ron-emergency personnel rocedures : Only qualified personnel equipped with suitable protective equipment may intervene.			

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.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
2. Environmental precautions	
void release to the environment. Notify auth	norities if product enters sewers or public waters.
3.3. Methods and material for contain	nment and cleaning up
For containment	: Stop leak if safe to do so.
Nethods 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".
.4. Reference to other sections	
lo 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.
łygiene 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.
2.2. Conditions for safe storage, incl	uding any incompatibilities
.z. Conditions for sale storage, incl	
echnical measures	: Comply with applicable regulations.
echnical measures	Comply with applicable regulations.Keep container closed when not in use. Hygroscopic. Moisture sensitive. Keep contents under

SECTION 8: Exposure controls/personal protection	

Control parameters 8.1.

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 ar	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	: 625 °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		

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Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 2.6 g/ml (@ 20 °C)
Molecular mass	: 143.9499 g/mol
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

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 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.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity

: Oral: Harmful if swallowed.

Sodium monofluorophosphate (10163-15-2)		
LD50 oral rat	784 ml/kg	
LC50 inhalation rat (mg/l)	> 2.1 mg/l	
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	

SECTION 12: Ecological information 12.1. Toxicity

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Sodium monofluorophosphate (10163-15-2)			
LC50	fish 1	> 100 mg/l 96 hour	
12.2.	Persistence and degradability		
No add	itional 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			

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:

Sodium monofluorophosphate	CAS No 10163-15-2	100%
		10070

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

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Full tex	t of H-phrases:		
	Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4
	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
	H302		Harmful if swallowed
	H315		Causes skin irritation
	H319		Causes serious eye irritation
	H335		May cause respiratory irritation
NFPA f	nealth hazard ire hazard reactivity	given. : 0 - Materials that will not b	h prompt medical attention was burn. under fire exposure conditions,
HMIS I	II Rating		
Health		: 3 Serious Hazard - Majo given	or injury likely unless prompt action is taken and medical treatment is
Flamma	ability	: 0 Minimal Hazard - Mate	rials that will not burn
Physica	al		rials that are normally stable, even under fire conditions, and will NOT rize, 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.