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A Geno Technology, Inc. (USA) brand name

Safety Data Sheet

Cat. # RC-098

Sodium Phosphate (Monobasic)

Size: 1kg





Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/03/2015 Revision date: 05/11/2017 Version: 7.1

SECTION 1: Identification	
1.1. Identification	
	: Substance
Substance name	: Sodium phosphate monobasic
CAS-No.	· 7558-80-7
Product code	: 255S
Formula	NaH2PO4
Synonyms	 acid sodium phosphate / acid sodium phosphate, anhydrous / E339(a) food grade / monobasic sodium phosphate / monosodium dihydrogen orthophosphate / monosodium dihydrogen phosphate / monosodium dihydrogen phosphate, anhydrous / monosodium hydrogen phosphate / monosodium orthophosphate, anhydrous / monosodium phosphate / monosodium phosphate / monosodium phosphate / monosodium salt, anhydrous / monosorb XP-4 / MSP / MSP, anhydrous / phosphoric acid monosodium salt, anhydrous / phosphoric acid monosodium salt, anhydrous / phosphoric acid phosphate / primary-sodiumphosphate, anhydrous / sodium acid phosphate, anhydrous / sodium acid phosphate / sodium biphosphate / sodium biphosphate / sodium dihydrogen phosphate / sodium phosphate, monobasic / sodium phosphate, monobasic, anhydrous / sodium pinary phosphate
BIG No	: 13599
1.2. Recommended use and restrictions of	n use
Use of the substance/mixture	: Pharmaceutical product Food industry: additive Textile: Chemical raw material
1.3. Supplier	
Geno Technology, Inc./ G-Biosciences 9800 Page Avenue Saint Louis, 63132-1429 - United States T 800-628-7730 - F 314-991-1504 technical@GBiosciences.com - www.GBioscience	<u>s.com</u>
1.4. Emergency telephone number	
	: Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mix	ture
GHS US classification	
Not classified	
2.2. GHS Label elements, including preca	utionary statements
GHS US labeling	
No labeling applicable	
2.3. Other hazards which do not result in	classification
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
SECTION 3: Composition/Information	on ingredients
3.1. Substances	
	: Mono-constituent

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Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
odium phosphate monobasic	acid sodium phosphate / acid	(CAS-No.) 7558-80-7	100	Not classified
(Main constituent)	sodium phosphate, anhydrous /			
	E339(a) food grade / monobasic			
	sodium phosphate / monosodium			
	dihydrogen orthophosphate /			
	monosodium dihydrogen phosphate			
	/ monosodium dihydrogen			
	phosphate, anhydrous /			
	monosodium hydrogen phosphate /			
	monosodium orthophosphate /			
	monosodium orthophosphate,			
	anhydrous / monosodium phosphate			
	/ monosodium phosphate,			
	anhydrous / monosorb XP-4 / MSP /			
	MSP, anhydrous / phosphoric acid			
	monosodium salt, anhydrous /			
	phosphoric acid, monosodium salt /			
	primary-sodium phosphate /			
	primary-sodiumphosphate,			
	anhydrous / sodium acid phosphate			
	/ sodium acid phosphate, anhydrous			
	/ sodium biphosphate / sodium			
	biphosphate, anhydrous / sodium			
	dihydrogen monophosphate /			
	sodium dihydrogen phosphate /			
	sodium dihydrogen phosphate			
	(NaH2PO4) / sodium dihydrogen			
	phosphate, anhydrous / sodium			
	dihydrogenorthophosphate / sodium			
	monobasic phosphate (NaH2PO4) /			
	sodium orthophosphate, primary /			
	sodium phosphate (Na(H2PO4)) /			
	sodium phosphate, monobasic /			
	sodium phosphate, monobasic,			
	anhydrous / sodium primary			
	phosphate			

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable	
SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	: Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell.
4.2. Most important symptoms and effect	s (acute and delayed)
Potential Adverse human health effects and symptoms	: Non-toxic if swallowed (LD50 oral, rat > 5000 mg/kg). Non-toxic in contact with skin (LD50 skin> 5000 mg/kg). Slightly irritant to respiratory organs. Slightly irritant to eyes.
Symptoms/effects after inhalation	: EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Slight irritation.
Symptoms/effects after eye contact	: Slight irritation.
Symptoms/effects after ingestion	: AFTER INGESTION OF HIGH QUANTITIES: Nausea. Diarrhoea.
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Respiratory difficulties.
4.3. Immediate medical attention and spe Treat symptomatically.	cial treatment, if necessary

SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishi	ng media
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Specific hazards arising from the che	mical
Fire hazard	: DIRECT FIRE HAZARD: Non combustible.

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5.3. Special protective equipment and p	recautions for fire-fighters
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	: Dilute toxic gases with water spray.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.
SECTION 6: Accidental release mea	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.
Emergency procedures	: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes.
Measures in case of dust release	: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.
6.1.2. 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".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containme	ent and cleaning up
For containment	: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray.
Methods for cleaning up	: Stop dust cloud by humidifying. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid raising dust. Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Keep container tightly closed.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includi	ng any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
Storage temperature	: 20 °C
Heat-ignition	: KEEP SUBSTANCE AWAY FROM: heat sources.
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: (strong) acids. (strong) bases. oxidizing agents. water/moisture.
Storage area	: Store in a dry area. Keep container in a well-ventilated place. Store at room temperature. Meet the legal requirements.
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials	: SUITABLE MATERIAL: paper. cardboard. textile. polyethylene. MATERIAL TO AVOID: steel.

8.1.	Control para	meters	
		(=====	_

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No additional information available	

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8.2. Appropriate engineering controls

- Appropriate engineering controls
- Environmental exposure controls

Ensure good ventilation of the work station.Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Materials for protective clothing:

GIVE GOOD RESISTANCE: rubber. plastics

Hand protection:

Gloves

Eye protection:

Safety glasses. In case of dust production: protective goggles

Skin and body protection:

Protective clothing

Respiratory protection:

Dust production: dust mask with filter type P1

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: SolidAppearance: Crystalline solid. Crystalline powder.Color: WhiteOdor: OdourlessOdor threshold: No data availablepH: 4.4 (1 %)Melting point: Not aaplicableFreezing point: Not aaplicableBoiling point: Not aaplicableFlash point: Not aaplicableRelative evaporation rate (butyl acetate=1): No data available	
Color: WhiteOdor: OdourlessOdor threshold: No data availablepH: 4.4 (1 %)Melting point: No data availableFreezing point: Not applicableBoiling point: No data availableFlash point: Not applicable	
Odor: OdourlessOdor threshold: No data availablepH: 4.4 (1 %)Melting point: No data availableFreezing point: Not applicableBoiling point: No data availableFlash point: Not applicable	
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Melting point : No data available Freezing point : Not applicable Boiling point : No data available Flash point : Not applicable	
Freezing point: Not applicableBoiling point: No data availableFlash point: Not applicable	
Boiling point : No data available Flash point : Not applicable	
Flash point : Not applicable	
Polative eveneration rate (butul accrete-1)	
Relative evaporation rate (butyl acetate=1) : No data available	
Flammability (solid, gas) : Non flammable.	
Vapor pressure : No data available	
Relative vapor density at 20 °C : Not applicable	
Relative density : 2.4	
Specific gravity / density : 2360 kg/m ³	
Molecular mass : 119.98 g/mol	
Solubility : Soluble in water. Water: 85 g/100ml	
Log Pow : -3.96 (Estimated value)	
Auto-ignition temperature : Not applicable	
Decomposition temperature : > 170 °C	
Viscosity, kinematic : No data available	
Viscosity, dynamic : No data available	
Explosion limits : Not applicable	
Explosive properties : No data available	
Oxidizing properties : No data available	
9.2. Other information	
VOC content : 0 %	
Other properties : Translucent. Hygroscopic. Acid reaction.	

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SECTION 10: Stability and reactivit	у
10.1. Reactivity	
Reacts violently with (some) acids/bases. Read	cts slowly on exposure to water (moisture) with (some) metals.
10.2. Chemical stability	
Hygroscopic.	
10.3. Possibility of hazardous reactions	
No dangerous reactions known under normal of	conditions of use.
10.4. Conditions to avoid	
None under recommended storage and handlin	ng conditions (see section 7).
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition produc	ts
Hazardous decomposition products.	
	ation
SECTION 11: Toxicological information on toxicological offer	
11.1. Information on toxicological effect	: Not classified
Acute toxicity (oral) Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
- · · ·	
Sodium phosphate monobasic (7558-80-7)	8290 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 7940 mg/kg (Rabbit, Dermal)
Skin corrosion/irritation	: Not classified
	pH: 4.4 (1 %)
Serious eye damage/irritation	: Not classified
	pH: 4.4 (1 %)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity - single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	 Non-toxic if swallowed (LD50 oral, rat > 5000 mg/kg). Non-toxic in contact with skin (LD50 skin> 5000 mg/kg). Slightly irritant to respiratory organs. Slightly irritant to eyes.
Symptoms/effects after inhalation	: EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Slight irritation.
Symptoms/effects after eye contact	: Slight irritation.
Symptoms/effects after ingestion	: AFTER INGESTION OF HIGH QUANTITIES: Nausea. Diarrhoea.
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Respiratory difficulties.
SECTION 12: Ecological information	n
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	: Slightly harmful to crustacea. Not harmful to fishes. Groundwater pollutant. Mild water pollutant (surface water). May cause eutrophication. Insufficient data available on ecotoxicity. pH shift.

	Sodium phosphate monobasic (7558-80-7)		
	LC50 fish 1	> 2400 mg/l (OECD 203: Fish, Acute Toxicity Test, 48 h, Leuciscus idus)	
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2.2. Persistence and degradability Sodium phosphate monobasic (7558-		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD) Not applicable		
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
2.3. Bioaccumulative potential Sodium phosphate monobasic (7558-	80-7)	
Log Pow	-3.96 (Estimated value)	
Bioaccumulative potential	Not bioaccumulative.	
12.4. Mobility in soil		
No additional information available		

12.5. Other adverse effects

No additional information available

13.1. Disposal methods	
Waste treatment methods	: Waste treatment methods.
Product/Packaging disposal recommendations	: Avoid discharge of large amounts into the sewer. Do not discharge into surface water. Remove waste in accordance with local and/or national regulations. Remove to an authorized dump (Class I). Precipitate/make insoluble.
Additional information	: Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Department of Transportation (DOT) In accordance with DOT	
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport by sea	
Not regulated	
Air transport	
Not regulated	

SECTION 15: Regulatory information	
15.1. US Federal regulations	
Sodium phosphate monobasic (7558-80-7)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory	

15.2. International regulations

CANADA

EU-Regulations

National regulations No additional information available

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15.3. US State regulations

SECTION 16: Other information

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Revision date	: 05/11/2017	
NFPA health hazard	: 1 - Materials that, under emergency conditions, can cause significant irritation.	
NFPA fire hazard	 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. 	
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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