

# SAFETY DATA SHEET

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: pH 4.0 Buffer Part Number: 57005

Pyxis Lab Inc. 1729 Majestic Drive Suite 5 Lafayette, CO 80026 866-203-8397 **Emergency Telephone Numbers:** 

Chemtrec: 800-262-8200

Chemical Name: Not applicable CAS Number: Not applicable Additional CAS No. (for hydrated forms): Not applicable Chemical Formula: Not applicable Chemical Family: Not applicable I ntended Use: Buffer

# 2. HAZARDS IDENTIFICATION

GHS Classification: Hazard categories: Serious Eye D amage/Eye Irritation: Eye Irrit. 2A GHS Label Elements: W A R NING

Hazard statements: Causes serious eye irritation. W ear protectiv e glov es / protectiv e clothing / eye protection / face protection. Precautionary statements: IF IN EY ES : R inse cautiously with water for sev eral minutes. R emove contact lenses, if present and easy to do. Continue If eye irritation persists: G et med ical ad v ice/attention. rinsing. HMI S: Health: 0 Flammability: 0 Reactiv ity: 0 Protective Equipment: X - S ee protective equipment, S ection 8. NFPA: Health: 0 Flammability: 0 Reactiv ity: 0 Symbol: Not applicable WHMI S Hazard Classification: Not applicable WHMIS Symbols: Not applicable

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components according to GHS: <u>Potassiu m Acid Phthalate</u>

> CAS Number: 877-24-7 Chemical Formula: C<sub>8</sub>H<sub>5</sub>KO<sub>4</sub> GHS Classification: A cute Tox 5, H303; A cute Tox. D erm. 4, H312; Eye Irrit. 2A, H319 Percent Range (T rade Secret): 1.0 - 5.0 Percent Range Units: w eight / v olume PEL: 15 mg/m as total d ust; 5 mg/m as respirable d ust

T LV : 10 mg/m as inhalable d ust; 3 mg/m as respirable d ust

WHMI S Symbols: Not applicable Formaldehyde

CAS Number: 50-00-0 Chemical Formula: CH<sub>2</sub>O GHS Classification: F lam. Liq. 4, H227; A cute Tox. 3 -Orl, H301; A cute Tox. 3 -D erm, H311; S kin Corr. 1B, H314; S kin S ens. 1, H317; A cute Tox. 3-Inh, H331; R esp. S ens. 1, H334; Muta. 2, H341; Carc. 2, H351; R epr. 2, H361; S TOT S ingle 1, H370; A quatic A cute 2, H401 Percent Range (T rade Secret): < 0.1 Percent Range Units: w eight / w eight PEL: 0.75 ppm T LV : 0.3 ppm

WHMI S Symbols: A cute P oisonOther Toxic Effects Methyl Alcohol

CAS Number: 67-56-1 Chemical Formula: CH<sub>3</sub>OH GHS Classification: F lam. Liq 2, H225; A cute Tox 3 -Orl, H301; A cute Tox 3 -D erm, H311; S kin Irrit. 2, H315; Eye Irrit. 2A, H319; A cute Tox 3 -Inh, H331; Muta. 2, H341; R epr. 2, H361; S TOT S E1, H370 Percent Range (T rade Secret): < 0.1 Percent Range Units: w eight / w eight PEL: 200 ppm T LV : 200 ppm

WHMI S Symbols: A cute P oisonF lammable / CombustibleOther Toxic Effects Hazardous Components according to GHS: No Demineralized Water

CAS Number: 7732-18-5 Chemical Formula: H<sub>2</sub>O GHS Classification: Not a d angerous substance accord ing to G HS . Percent Range (T rade Secret): >95.0 Percent Range Units: v olume / v olume PEL: Not established T LV : Not established

WHMI S Symbols: Not applicable

# 4 . FIRST AID MEASURES

General I nformation: In the ev ent of exposure, show this Material S afety D ata S heet and label (w here possible) to a d octor.

Adv ice to doctor:Treat symptomatically.Eye Contact:F lush eyes w ith w ater.Call physician if irritation d ev elops.Sk in Contact (First Aid):W ash skin w ith soap and plenty of w ater.I nhalation:None required .I ngestion (First Aid):G iv e large quantities of w ater.Call physician immed iately.

# 5. FIRE FIGHTING MEASURES

Flammable Properties:Material will not burn.Fire Fighting I nstruction:<br/>gear.A s in any fire, w ear self-contained breathing apparatus pressure-d emand and full protectiveEx tinguishing Media:U se med ia appropriate to surround ing fire cond itionsEx tinguishing Media NOT T o B e Used:Not applicable

Fire / Ex plosion Hazards: This prod uct will not burn or explod e. Hazardous Combustion Products: Not applicable

# 6 . ACCIDENTAL RELEASE MEASURES

#### Spill Response Notice:

Only persons properly qualified to respond to an emergency inv olv ing hazard ous substances may respond to a spill accord ing to fed eral regulations (OS HA 29 CF R 1910.120(a)(v )) and per your company's emergency response plan and guid elines/proced ures. See S ection 13, S pecial Instructions for d isposal assistance.

Containment T echnique: S top spilled material from being released to the env ironment.

Clean-up T echnique: Cov er spilled material with an alkali, such as sod a ash or sod ium bicarbonate. Scoop up slurry into a large beaker. A d just to a pH betw een 6 and 9 with an alkali, such as sod a ash or sod ium bicarbonate. Flush reacted

material to the d rain with a large excess of water. D econtaminate the area of the spill with a soap solution.

Ev acuation Procedure: Ev acuate as need ed to perform spill clean-up. If cond itions w arrant, increase the size of the ev acuation.

DO T Emergency Response Guide Number: Not applicable

# 7 . HANDLING AND STORAGE

Handling: A v oid contact with eyes Wash thoroughly after hand ling. Storage: Keep container tightly closed w hen not in use. P rotect from: heat Flammability Class: Not applicable

# 8. EX POSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Maintain general ind ustrial hygiene practices when using this product.
Personal Protective Eq uipment:

Eye Protection: safety glasses with top and sid e shield s
Sk in Protection: lab coat
Inhalation Protection: ad equate v entilation

Precautionary Measures: A v oid contact with: eyes Wash thoroughly after hand ling.
T LV : Not established
PEL: Not established
For O ccupational Ex posure Limits (O EL) for ingredients, see section 3 - Composition/I nformation on I ngredients.:

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid Physical State: Liquid Molecular Weight: Not applicable O dor: None O dor T hreshold: Od orless pH: 4.01 Metal Corrosivity: Corrosivity Classification: Not classified as corrosiv e to metals accord ing to G HS criteria. Steel: Not d etermined Aluminum: Not d etermined V iscosity: 1x10 m /s Specific Gravity/ Relative Density (w ater = 1; air =1): 0.995 Solubility: Water: S oluble Acid: S oluble O ther: Not d etermined Partition Coefficient (n-octanol / w ater): Not applicable of Water / O il: Not applicable Coefficient Melting Point: Not d etermined Decomposition T emperature: Not d etermined

Boiling Point: >100°C V apor Pressure: Not d etermined V apor Density (air = 1): Not d etermined Ev aporation Rate (w ater = 1): 0.86 V olatile O rganic Compounds Content: Not applicable Flammable Properties: Material will not burn. Flash Point: Not applicable Method: Not applicable Flammability Limits: Low er Ex plosion Limits: Not applicable Upper Ex plosion Limits: Not applicable Autoignition T emperature: Not applicable Ex plosiv e Properties: Not classified accord ing to G HS criteria. O x idizing Properties: Not classified accord ing to G HS criteria. **Reactivity Properties:** Not classifed as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria. Gas under Pressure: Not classified according to G HS criteria.

#### **10. STAB ILITY AND REACTIV ITY**

Chemical Stability: S table w hen stored und er proper cond itions. Mechanical I mpact: None reported Static Discharge: None reported . Reactivity / I ncompatibility: None reported Hazardous Decomposition: None reported Conditions to Avoid: Extreme temperatures Ev aporation

# 11. TOX ICOLOGICAL INFORMATION

T ox icok inetics, Metabolism and Distribution: No health effects are anitcipated in normal use. T ox icologically Synergistic Products: None reported Acute T ox icity: Based on classification principles, the classification criteria are not met. A cute Toxicity Estimate (A TE) - Calculated from Ingred ient Toxicity D ata A TE Oral R at LD 50= 104644 mg/kg A TE D ermal R abbit LD 50= 384615 mg/kg A TE Inhalation R at LC50= 493 mg/l Specific T arget O rgan T ox icity - Single Ex posure (ST O T -SE): Based on classification principles, the classification criteria are not met. Specific T arget O rgan T ox icity - Repeat Ex posure (ST O T -RE): Not applicable Sk in Corrosion/I rritation: Based on classification principles, the classification criteria are not met. Eve Damage: Based on classification principles, the classification criteria are not met. Sensitization: Based on classification principles, the classification criteria are not met. CMR Effects/Properties (carcinogenic, mutagenic or tox ic to reproduction): Contains a reprod uctiv e toxin. D ev elopmental toxicity associated with the substance or an ingred ient of the mixture hav e been reported . This prod uct d oes NOT contain any IA R C listed chemicals. This prod uct d oes NOT contain any NTP listed chemicals. This prod uct d oes NOT contain any OS HA listed carcinogens. Symptoms/Effects: Ingestion: No Effects A nticipated Inhalation: No effects anticipated No effects anticipated Sk in Absorption: No effects anticipated Chronic Effects: Medical Conditions Aggrav ated: None reported

# **12. ECOLOGICAL INFORMATION**

Product Ecological I nformation: --No ecological d ata av ailable for this prod uct. I ngredient Ecological I nformation: --No ecological d ata av ailable for the ingred ients of this prod uct.

# 13. DISPOSAL CONSIDERATIONS

EPA Waste I D Number: Not applicable Special Instructions (Disposal): A d just to a pH betw een 6 and 9 w ith an alkali, such as sod a ash or sod ium bicarbonate. Open cold water tap completely, slow ly pour the reacted material to the d rain. Empty Containers: R inse three times with an appropriate solv ent. D ispose of empty container as normal trash. NOTICE (Disposal): These d isposal guid elines are based on fed eral regulations and may be supersed ed by more stringent state or local requirements. P lease consult your local env ironmental regulators for more information. In Europe: Chemical and analysis solutions must be d isposed of in compliance with the respective national regulations. P rod uct packaging must be d isposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

#### 14. TRANSPORT INFORMATION

D.O.T .: D.O.T . Proper Shipping Name: Not Currently R egulated Hazard Class: NA Subsidiary Risk : NA ID Number: NA Pack ing Group: NA T .D.G.: Proper Shipping Name: Not Currently R egulated Hazard Class: NA Subsidiary Risk : NA UN Number/PI N: NA Pack ing Group: NA I.C.A.O.: I.C.A.O. Proper Shipping Name: Not Currently R egulated Hazard Class: NA Subsidiary Risk : NA I D Number: NA Pack ing Group: NA I.M.O.: Proper Shipping Name: Not Currently R egulated Hazard Class: NA Subsidiary Risk : NA ID Number: NA Pack ing Group: NA Marine Pollutant: Additional Information:

Additional I nformation: There is a possibility that this prod uct could be contained in a reagent set or kit composed of v arious compatible d angerous good s. If the item is NOT in a set or kit, the classification giv en abov e applies. If the item IS part of a set or kit, the classification w ould change to the follow ing: U N3316 Chemical Kit, Class 9, P G II or III. If the item is not regulated , the Chemical Kit classification d oes not apply.

U.S. Federal Regulations: O .S.H.A.: This prod uct d oes not meet the criteria for a hazard ous substance as d efined in the Hazard Communication S tand ard . (29 CF R 1910.1200) E.P.A.: S.A.R.A. T itle III Section 311/312 Categorization (40 CFR 370): This prod uct is not hazard ous und er 29 CF R .1910.1200 and therefore is not cov ered by Title III und er S A R A. S.A.R.A. T itle III Section 313 (40 CFR 372): This prod uct d oes NOT contain any chemical subject to the reporting requirements of S ection 313 of Title III of S A R A. 302 (EHS) T PQ (40 CFR 355): Not applicable 304 CERCLA RQ (4 0 CFR 302.4): Not applicable 304 EHS RQ (4 0 CFR 355): Not applicable Clean Water Act (4 0 CFR 116.4): Not applicable RCRA: Contains no R CR A regulated substances. State Regulations: California Prop. 65: No P rop. 65 listed chemicals are present in this prod uct. I dentification of Prop. 65 I ngredient(s): None California Perchlorate Rule CCR T itle 22 Chap 33: Not applicable T rade Secret Registry: Not applicable National Inventories: U.S. I nventory Status: All ingred ients in this prod uct are listed on the TS CA 8(b) Inv entory (40 CF R 710). CAS Number: Not applicable Canadian I nv entory Status: All ingred ients of this prod uct are DSL Listed . EEC I nv entory Status: All ingred ients used to make this prod uct are listed on EINECS / ELINCS . Australian I nv entory (AI CS) Status: All ingred ients are listed . New Zealand I nventory (NZI oC) Status: All components either listed or exempt. I nventory (KECI) Status: All components of this prod uct are either listed, listed as the anhyd rous compound or Korean exempt. Japan (ENCS) I nv entory Status: All components either listed or exempt. Status: All components either listed or exempt. China (PRC) I nv entory (MEP)

# **16. OTHER INFORMATION**

A ir Contaminants, F ed eral R egister, V ol. 29 CF R 1900 - 1910 (Cod e of F ed eral R egulations - Labor). References: 54,

No. 12. pp. 2332-2983. Thursd ay, January 19, 1989. TLV 's Threshold Limit V alues and Biological Exposure Ind ices for 1992-1993. A merican Conference of G ov ernmental Ind ustrial Hygienists, 1992. Technical Jud gment. In-house F ire P rotection G uid e on Hazard ous Materials, 10th Ed . Quincy, MA : National F ire P rotection F ire information. Quincy, MA: National F ire P rotection A ssociation, 1991. P rotection G uid e on Hazard ous Materials, 10th Ed. Complete T ex t of H phrases referred to in Section 3: Not applicable H319 Causes serious eye irritation. H351 S uspected of causing cancer. H331 Toxic if inhaled . H311 Toxic in contact with skin. H301 Toxic if sw allow ed . H314 Causes sev ere skin burns and eye d amage. H225 Highly flammable liquid H317 May cause an allergic skin reaction. and

H370 Causes d amage to organs. v apour.

Revision Summary: S ubstantial rev ision to comply with EU R eg 1272/2008, R eg 1907/2006 and UNGHS ( S T/S G /A C.10/36/A d d .3).

Date of MSDS Preparation:

Day: 28

Month: January Year: 2015

NA - Not A pplicable ND - Not D etermined NV - Not A v ailable

w/w - w eight/w eight w/v - w eight/v olume v/v - v olume/v olume

USER RESPONSIB ILITY: Each user should read and und erstand this information and incorporate it in ind iv id ual site safety programs in accord ance with applicable hazard communication stand ard s and regulations.

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