



### Section 1 Product Description

Product Name pH Reconditioning Kit Bottle 3
Recommended Use pH Reconditioning Kit Bottle 3
Equipment Calibration

Synonyms None known
Distributor Atlas Scientific

43-15 11th Street, Long Island City, NY 11101

718-387-2075

Chemical Information 800-227-1150 (8am-5pm M-F)

**Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

**GHS Classification** 

### Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 99.64

 Hydrogen Chloride
 7647-01-0
 0.364

### Section 4 First Aid Measures

**Emergency and First Aid Procedures** 

**Inhalation** In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin Contact** After contact with skin, wash immediately with plenty of water.

**Ingestion** If swallowed, do not induce vomiting: seek medical advice immediately and show this

container or label.

# Section 5 Firefighting Procedures

**Extinguishing Media**Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection Firefighters should wear full protective equipment and NIOSH

approved self-contained breathing apparatus.

Fire and/or Explosion Hazards Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products Phosphorus compounds, Potassium Oxide, Sodium Oxides

# Section 6 Spill or Leak Procedures

Steps to Take in Case Material are Released or Spilled

**Environmental Precautions** 

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Avoid breathing material. Avoid contact with skin and eyes. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

### Section 7 Handling and Storage

**Handling** Avoid contact with skin and eyes.





**Storage** Keep container tightly closed in a cool, well-ventilated place.

Storage Code Green - general chemical storage

### Section 8 Protection Information

ACGIH OSHA PEL

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Hydrogen Chloride
 N/A
 N/A
 N/A
 N/A

Control Parameters

Engineering Measures Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

**Personal Protective** 

**Equipment (PPE)** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection** No respiratory protection required under normal conditions of use.

Respirator Type(s) None required where adequate ventilation is provided. If airborne concentrations are

above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Eye Protection Wear chemical splash goggles when handling this product. Have an eye

wash station available.

**Skin Protection** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves No information available

# Section 9 Physical Data

Formula See Section 3

Molecular Weight No data available

**Appearance** Colorless Depends upon product selection. The color additives do not affect product hazards. Liquid

Odor None

Odor Threshold No data available pH Reconditioning Kit Bottle 3

Melting Point Estimated 0°C

**Boiling Point 100°C** 

Flash Point No data available

Flammable Limits in Air No data available

Vapor Pressure No data available

Evaporation Rate (BuAc=1) No data available Vapor Density (Air=1) No data available

Specific Gravity Approx. 1 Solubility in Water Soluble

Log Pow (calculated) No data available
Autoignition Temperature No data available
Decomposition Temperature No data available

Viscosity No data available

Percent Volatile by Volume No data available

# Section 10 Reactivity Data

**Reactivity** Not generally reactive under normal conditions.

**Chemical Stability** Stable under normal conditions.

Conditions to Avoid None known.

Incompatible Materials Water-reactive materials

Hazardous Decomposition

Products Sodium Oxides, Potassium Oxide, Phosphorus compounds

Hazardous Polymerization Will not occur





# Section 11 Toxicity Data

**Routes of Entry** Ingestion, skin and eye contact.

Symptoms (Acute) No data available
Delayed Effects No data available

**Acute Toxicity** 

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Water 7732-18-5 Oral LD50 Rat 90000 mg/kg

Hydrogen Chloride 7647-01-0 Oral LD50 Rat Dermal LD50

3200 mg/kg Rabbit > 4640 mg/kg

inagonisity.

Carcinogenicity
Chemical Name

Chemical NameCAS NumberIARCNTPOSHAHydrogen Chloride7647-01-0Not listedNot listedNot listed

#### **Chronic Effects**

Mutagenicity No evidence of a mutagenic effect.

**Teratogenicity** No evidence of a teratogenic effect (birth defect).

Sensitization No evidence of a sensitization effect.

Reproductive No evidence of negative reproductive effects.

**Target Organ Effects** 

Acute Respiratory system, Cardiovascular system, Musculoskeletal system

Chronic No information available

# Section 12 Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.

**Mobility:** This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: Dissolved into water

**Bioaccumulation:** Bioconcentration is not expected to occur.

**Degradability:** No data **Other Adverse Effects:** No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Hydrogen Chloride 7647-01-0

### Section 13 Disposal Information

**Disposal Methods**Dispose in accordance with all applicable Federal, State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s) Not Determined

### **Section 14** Transport Information

**Ground - DOT Proper Shipping Name**Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name

Not regulated for air transport by IATA.





Section 15	Regulatory Information					
TSCA Status	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS § 313 Name Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ	
Hydrogen Chloride	7647-01-0 No	No	No	No	No	

# Section 16 Additional Information

**Revised** 09/16/2015 **Replaces** 09/16/2015 **Printed** 09/16/2015

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#### Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Chemical Abstract Service Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

**DOT** U.S. Department of Transportation

IARC International Agency for Research on Cancer

**N/A** Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

**PEL** Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

**TLV** Threshold Limit Value

**TSCA** Toxic Substances Control Act

**IDLH** Immediately dangerous to life and health





### Section 1 Product Description

Product Name pH Reconditioning Kit Bottle 2
Recommended Use pH Reconditioning Kit Bottle 2
Equipment Calibration

Synonyms None known
Distributor Atlas Scientific

43-15 11th Street, Long Island City, NY 11101

718-387-2075

Chemical Information 800-227-1150 (8am-5pm M-F)

**Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

**GHS Classification** 

### Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 99.6

 Sodium Hydroxide
 1310-73-2
 0.4

### Section 4 First Aid Measures

**Emergency and First Aid Procedures** 

**In case** of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin Contact** After contact with skin, wash immediately with plenty of water.

**Ingestion** If swallowed, do not induce vomiting: seek medical advice immediately and show this

container or label.

# **Section 5** Firefighting Procedures

**Extinguishing Media**Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection Firefighters should wear full protective equipment and NIOSH

approved self-contained breathing apparatus.

Fire and/or Explosion Hazards Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products Phosphorus compounds, Potassium Oxide, Sodium Oxides

# Section 6 Spill or Leak Procedures

Steps to Take in Case Material are Released or Spilled

**Environmental Precautions** 

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Avoid breathing material. Avoid contact with skin and eyes. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

### Section 7 Handling and Storage

**Handling** Avoid contact with skin and eyes.





**Storage** Keep container tightly closed in a cool, well-ventilated place.

Storage Code Green - general chemical storage

### Section 8 Protection Information

ACGIH OSHA PEL

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Sodium Hydroxide
 N/A
 N/A
 N/A
 N/A

Control Parameters

Engineering Measures Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective

**Equipment (PPE)** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection** No respiratory protection required under normal conditions of use.

Respirator Type(s)

None required where adequate ventilation is provided. If airborne concentrations are

above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Eye Protection Wear chemical splash goggles when handling this product. Have an eye

wash station available.

**Skin Protection** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves No information available

# Section 9 Physical Data

Formula See Section 3

Molecular Weight No data available

**Appearance** Colorless Depends upon product selection. The color additives do not affect product hazards. Liquid

Odor None

Odor Threshold No data available pH Reconditioning Kit Bottle 2 Melting Point Estimated 0°C

**Boiling Point 100°C** 

Flash Point No data available

Flammable Limits in Air No data available

Vapor Pressure No data available

Evaporation Rate (BuAc=1) No data available Vapor Density (Air=1) No data available

**Specific Gravity** Approx. 1 **Solubility in Water** Soluble

Log Pow (calculated) No data available
Autoignition Temperature No data available
Decomposition Temperature No data available

Viscosity No data available

Percent Volatile by Volume No data available

# Section 10 Reactivity Data

**Reactivity** Not generally reactive under normal conditions.

Chemical Stability Stable under normal conditions.

Conditions to Avoid None known.

Incompatible Materials Water-reactive materials

**Hazardous Decomposition** 

Products Sodium Oxides, Potassium Oxide, Phosphorus compounds

Hazardous Polymerization Will not occur





# Section 11 Toxicity Data

**Routes of Entry** Ingestion, skin and eye contact.

Symptoms (Acute) No data available
Delayed Effects No data available

Acute Toxicity

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50
Water 7732-18-5 Oral LD50 Rat

ater 7732-18-5 Oral LD50 Rat 90000 mg/kg

Sodium Hydroxide 1310-73-2 Oral LD50 Rat Dermal LD50

3200 mg/kg Rabbit > 4640

mg/kg

Carcinogenicity

Chemical NameCAS NumberIARCNTPOSHASodium Hydroxide1310-73-2Not listedNot listedNot listed

#### **Chronic Effects**

Mutagenicity No evidence of a mutagenic effect.

**Teratogenicity** No evidence of a teratogenic effect (birth defect).

Sensitization No evidence of a sensitization effect.

**Reproductive** No evidence of negative reproductive effects.

**Target Organ Effects** 

Acute Respiratory system, Cardiovascular system, Musculoskeletal system

Chronic No information available

# Section 12 Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.

**Mobility:** This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: Dissolved into water

**Bioaccumulation:** Bioconcentration is not expected to occur.

**Degradability:** No data **Other Adverse Effects:** No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Sodium Hydroxide 1310-73-2

### Section 13 Disposal Information

**Disposal Methods**Dispose in accordance with all applicable Federal, State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s) Not Determined

### **Section 14** Transport Information

**Ground - DOT Proper Shipping Name**Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name

Not regulated for air transport by IATA.





Section 15	Regulatory Information				
TSCA Status	All components in this product are on the TSCA Inventory.				
Chemical Name	CAS § 313 Name Name	§ 304 RQ CE	ERCLA RQ § 302 TPQ	CAA 112(2) TQ	
Sodium Hydroxide	1310-73-2 No	No No	o No	No	

# Section 16 Additional Information

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#### Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Chemical Abstract Service Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

**DOT** U.S. Department of Transportation

IARC International Agency for Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

**PEL** Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value

**TSCA** Toxic Substances Control Act

**IDLH** Immediately dangerous to life and health





#### Section 1 **Product Description**

**Product Name** pH Reconditioning Kit Bottle 1 Recommended Use **Equipment Calibration** 

None known **Synonyms** Distributor Atlas Scientific

43-15 11th Street, Long Island City, NY 11101

718-387-2075

**Chemical Information** 800-227-1150 (8am-5pm M-F)

800-424-9300 (Transportation Spill Response 24 hours) Chemtrec

#### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

**GHS Classification** 

#### **Composition / Information on Ingredients Section 3**

**Chemical Name** CAS# 7732-18-5 80 Water Ammonium Bifluoride 1341-49-7 20

#### **Section 4 First Aid Measures**

**Emergency and First Aid Procedures** 

Inhalation In case of accident by inhalation: remove casualty to fresh air and keep at rest.

**Eves** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin Contact** After contact with skin, wash immediately with plenty of water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this Ingestion

container or label.

#### **Section 5** Firefighting Procedures

**Extinguishing Media** Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection Firefighters should wear full protective equipment and NIOSH

approved self-contained breathing apparatus.

Fire or excessive heat may produce hazardous decomposition products. Fire and/or Explosion Hazards

**Hazardous Combustion Products** Phosphorus compounds, Potassium Oxide, Sodium Oxides

#### Spill or Leak Procedures Section 6

Steps to Take in Case Material are Released or Spilled

**Environmental Precautions** 

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Avoid breathing material. Avoid contact with skin and eyes. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

#### Section 7 Handling and Storage

Handling Avoid contact with skin and eyes.





Storage Keep container tightly closed in a cool, well-ventilated place.

Storage Code Green - general chemical storage

### Section 8 Protection Information

ACGIH OSHA PEL

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Ammonium Bifluoride
 N/A
 N/A
 N/A
 N/A

Control Parameters

Engineering Measures Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective

**Equipment (PPE)** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection** No respiratory protection required under normal conditions of use.

**Respirator Type(s)**None required where adequate ventilation is provided. If airborne concentrations are

above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Eye Protection Wear chemical splash goggles when handling this product. Have an eye

wash station available.

**Skin Protection** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves No information available

# Section 9 Physical Data

Formula See Section 3

Molecular Weight No data available

**Appearance** Colorless Depends upon product selection. The color additives do not affect product hazards. Liquid

Odor None

Odor Threshold No data available pH Reconditioning Kit Bottle 1 Melting Point Estimated 0°C

**Boiling Point 100°C** 

Flash Point No data available

Flammable Limits in Air No data available

Vapor Pressure No data available

Evaporation Rate (BuAc=1) No data available Vapor Density (Air=1) No data available

**Specific Gravity** Approx. 1 **Solubility in Water** Soluble

Log Pow (calculated) No data available
Autoignition Temperature No data available
Decomposition Temperature No data available

Viscosity No data available

Percent Volatile by Volume No data available

# Section 10 Reactivity Data

**Reactivity** Not generally reactive under normal conditions.

Chemical Stability Stable under normal conditions.

Conditions to Avoid None known.

Incompatible Materials Water-reactive materials

**Hazardous Decomposition** 

Products Sodium Oxides, Potassium Oxide, Phosphorus compounds

Hazardous Polymerization Will not occur





#### Section 11 **Toxicity Data**

**Routes of Entry** Ingestion, skin and eye contact.

Symptoms (Acute) No data available **Delayed Effects** No data available

**Acute Toxicity** 

**Chemical Name CAS Number** Oral LD50 **Dermal LD50** Inhalation LC50

Water 7732-18-5 Oral LD50 Rat

90000 mg/kg

Ammonium Bifluoride 1341-49-7 Oral LD50 Rat Dermal LD50

3200 mg/kg Rabbit > 4640

mg/kg

Carcinogenicity

**NTP OSHA Chemical Name CAS Number IARC** Ammonium Bifluoride 1341-49-7 Not listed Not listed Not listed

#### **Chronic Effects**

Mutagenicity No evidence of a mutagenic effect.

**Teratogenicity** No evidence of a teratogenic effect (birth defect).

Sensitization No evidence of a sensitization effect.

Reproductive No evidence of negative reproductive effects.

**Target Organ Effects** 

Acute Respiratory system, Cardiovascular system, Musculoskeletal system

Chronic No information available

#### **Section 12 Ecological Data**

**Overview:** This material is not expected to be harmful to the ecology.

**Mobility:** This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: Dissolved into water

**Bioaccumulation:** Bioconcentration is not expected to occur.

**Degradability:** No data Other Adverse Effects: No data

**Chemical Name CAS Number Eco Toxicity** Water 7732-18-5 No data available

**Ammonium Bifluoride** 1341-49-7

#### **Disposal Information Section 13**

**Disposal Methods** Dispose in accordance with all applicable Federal, State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s) Not Determined

#### **Section 14 Transport Information**

**Ground - DOT Proper Shipping Name** Air - IATA Proper Shipping Name Not regulated for transport by US DOT. Not regulated for air transport by IATA.





Section 15	Regulatory lı	Regulatory Information					
TSCA Status	All components in this	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS § 313 Name Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ		
Ammonium Bifluoride	1341-49-7 No	No	No	No	No		

# Section 16 Additional Information

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N/A Not Available

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**TLV** Threshold Limit Value

**TSCA** Toxic Substances Control Act

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