

MATERIAL SAFETY DATA SHEET

Preparation & Last date Printed: 10/27/00 REV: F (WEBSITE)

Page 1 of 2

KCI

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MYRON L COMPANY 6115 CORTE DEL CEDRO, CARLSBAD, CA 92009, USA

INFORMATION PHONE # : (760) 438-2021, Contact either Jerry Adams or Gary Robinson

BUSINESS HOURS : Mon thru Fri 8:00-4:30 PM (Pacific Time)

This and additional Myron L Material Safety Data Sheets (MSDS) are available on the World Wide Web at: <http://www.myronl.com>

CHEMICAL NAME: Aqueous Salt Solution

CATALOG NUMBERS: KCI-70, KCI-700, KCI-7000, KCI-70,000,
KCI-18, KCI-180, KCI-1800, KCI-18,000,
KCI Special

TRADE NAME & SYNONYMS: TDS/Conductivity Standard Solution,
KCI Solution

CHEMICAL FAMILY: Inorganic Salts

CHEMICAL FORMULA: KCl and H₂O

CAS #: Potassium Chloride #7447-40-7
Water #7732-18-5

SECTION 2 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT, 760mm Hg (°C)	102-107	SPECIFIC GRAVITY	1.0
FREEZE POINT (°C)	-0 TO -20	SOLUBILITY IN H ₂ O,% BY WT. @ 20° C	100%
VAPOR PRESSURE @ 20° C	N/A	APPEARANCE AND ODOR	COLORLESS, ODORLESS LIQUID
VAPOR DENSITY	N/A	EVAPORATION RATE	N/A
PERCENT VOLATILES BY VOLUME	N/A		

SECTION 3 FIRE FIGHTING MEASURES

FLASH POINT (TEST METHOD)	N/A	FLAMMABLE LIMITS	N/A	LeI	N/A	UeI	N/A
EXTINGUISHING MEDIA	NON-FLAMMABLE						
SPECIAL HAZARDS & PROCEDURES	N/A						
UNUSUAL FIRE & EXPLOSION HAZARDS	N/A						

SECTION 4 STABILITY AND REACTIVITY

STABILITY: Product stable under normal temperatures and pressures.	CONDITIONS TO AVOID: NONE KNOWN.
REACTIVITY: SAME AS WATER.	MATERIALS TO AVOID: (N/A) WATER, (N/A) ACIDS, (N/A) BASES, (N/A) OTHER SPECIFY

SECTION 5 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
CLEAN SPILL USING ABSORBENT MATERIALS AND WATER, AND THEN AIR OUT AREA.

SECTION 6 HAZARDS IDENTIFICATION

THRESHOLD LIMIT VALUE: NONE KNOWN.
EFFECTS OF OVEREXPOSURE: IRRITATING TO EYES, MUCOUS MEMBRANES, SKIN AND DIGESTIVE TRACT.
ROUTES OF ENTRY: INGESTION.
CARCINOGENICITY: MATERIAL IS NOT LISTED (IARC, NTP, OSHA) AS A CANCER CAUSING AGENT.

SECTION 7 FIRST AID MEASURES

FIRST AID PROCEDURES:
EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER.
SKIN CONTACT: RINSE WITH LARGE AMOUNTS OF WATER.
INGESTION: DRINK PLENTY OF WATER, DO NOT INDUCE VOMITING, SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

SECTION 8 PERSONAL PROTECTION

RESPIRATORY PROTECTION:	NONE REQUIRED.
VENTILATION:	NONE REQUIRED.
EYE PROTECTION:	RECOMMENDED.
PROTECTIVE GLOVES:	NONE REQUIRED.
PROTECTIVE CLOTHING:	NONE REQUIRED.

SECTION 9 HANDLING AND STORAGE

HANDLING: NORMAL USE DOES NOT GENERATE A HAZARDOUS SITUATION WHEN HANDLED IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.

STORAGE: STORE AT ROOM TEMPERATURE.

SECTION 10 TOXICOLOGICAL INFORMATION

TOXICITY DATA: N/A

TOXICOLOGICAL FINDING:
 TESTS ON LABORATORY ANIMALS INDICATE MATERIAL DOES NOT PRODUCE ADVERSE MUTAGENIC EFFECTS.
 CITED IN REGISTRY OF TOXIC EFFECTS OF SUBSTANCES (RTECS)

SECTION 11 DISPOSAL CONSIDERATIONS

EPA WASTE NO. & DISPOSAL TREATMENT:
 MATERIAL DOES NOT HAVE AN EPA WASTE NUMBER AND IS NOT A LISTED WASTE.
NOTE: ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE AND ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

SECTION 12 TRANSPORT INFORMATION

DOT SHIPPING NAME..... NON-REGULATED
 DOT NUMBER..... NONE

SECTION 13 REGULATORY INFORMATION

TSCA INVENTORY: THE CAS NUMBER OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY.

- COMPONENT**N/A
- SARA EHS (302)** N/A
- SARA EHS TOQ (LBS)**N/A
- CERCLA RQ (LBS)** N/A
- OSHA FLOOR LIST** N/A
- SARA 313** N/A
- DeMinimis for SARA 313 (%)**N/A

SECTION 14 OTHER INFORMATION

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us; however, we make no warranty of merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from the use of this information. Users should make their own investigations to determine the suitability of the information for their particular needs and purposes.

NEPA Hazard Ratings	
Health:	0
Flammability:	0
Reactivity:	0
Special Hazards:	0

MSDS APPROVED BY: *Jerry D. Adams*

MATERIAL SAFETY DATA SHEET

Preparation & Last date Printed: 10/27/00 REV: E (WEBSITE)
Page 1 of 2

NaCl

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MYRON L COMPANY 6115 CORTE DEL CEDRO, CARLSBAD, CA 92009

INFORMATION PHONE #: (760) 438-2021, Contact either Jerry Adams or Gary Robinson

BUSINESS HOURS: Mon thru Fri 8:00-4:30 PM (Pacific Time)

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CHEMICAL NAME: Aqueous Salt Solution

CATALOG NUMBERS: 12.5 Millisiemens, 13.4 Millisiemens,
14.0 Millisiemens, NaCl Specials

TRADE NAME & SYNONYMS: Conductivity Standard Solution
NaCl Solution

CHEMICAL FAMILY: Inorganic Salts

CHEMICAL FORMULA: NaCl and H₂O

CAS #: Sodium Chloride
Water

#7647-14-5
#7732-18-5

SECTION 2 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT, 760mm Hg (°C)	102-107	SPECIFIC GRAVITY	1.0
FREEZE POINT (°C)	-0 TO -20	SOLUBILITY IN H ₂ O,% BY WT. @ 20° C	100%
VAPOR PRESSURE @ 20° C	N/A	APPEARANCE AND ODOR	COLORLESS, ODORLESS LIQUID
VAPOR DENSITY	N/A	EVAPORATION RATE	N/A
PERCENT VOLATILES BY VOLUME	N/A		

SECTION 3 FIRE FIGHTING MEASURES

FLASH POINT (TEST METHOD)	N/A	FLAMMABLE LIMITS	N/A	LeI	N/A	Uel	N/A
EXTINGUISHING MEDIA	NON-FLAMMABLE						
SPECIAL HAZARDS & PROCEDURES	N/A						
UNUSUAL FIRE & EXPLOSION HAZARDS	N/A						

SECTION 4 STABILITY AND REACTIVITY

STABILITY: Product stable under normal temperatures and pressures.	CONDITIONS TO AVOID	NONE KNOWN.
REACTIVITY: SAME AS WATER.	MATERIALS TO AVOID	(N/A)WATER (N/A)ACIDS (N/A)BASES (N/A)OTHER SPECIFY

SECTION 5 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
CLEAN SPILL USING ABSORBENT MATERIALS AND WATER, AND THEN AIR OUT AREA.

SECTION 6 HAZARDS IDENTIFICATION

THRESHOLD LIMIT VALUE: NONE KNOWN.
EFFECTS OF OVEREXPOSURE: IRRITATING TO EYES, MUCOUS MEMBRANES, SKIN AND DIGESTIVE TRACT.
ROUTES OF ENTRY: INGESTION.
CARCINOGENICITY: MATERIAL IS NOT LISTED (IARC, NTP, OSHA) AS A CANCER CAUSING AGENT.

SECTION 7 FIRST AID MEASURES

FIRST AID PROCEDURES:
EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER.
SKIN CONTACT: RINSE WITH LARGE AMOUNTS OF WATER.
INGESTION: DRINK PLENTY OF WATER, DO NOT INDUCE VOMITING, SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

SECTION 8 PERSONAL PROTECTION

RESPIRATORY PROTECTION:	NONE REQUIRED.
VENTILATION:	NONE REQUIRED.
EYE PROTECTION:	RECOMMENDED.
PROTECTIVE GLOVES:	NONE REQUIRED.
PROTECTIVE CLOTHING:	NONE REQUIRED.

SECTION 9 HANDLING AND STORAGE

HANDLING: NORMAL USE DOES NOT GENERATE A HAZARDOUS SITUATION WHEN HANDLED IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.
STORAGE: STORE AT ROOM TEMPERATURE.

SECTION 10 TOXICOLOGICAL INFORMATION

TOXICITY DATA: N/A

TOXICOLOGICAL FINDING:
 TESTS ON LABORATORY ANIMALS INDICATE MATERIAL DOES NOT PRODUCE ADVERSE MUTAGENIC EFFECTS.
 CITED IN REGISTRY OF TOXIC EFFECTS OF SUBSTANCES (RTECS)

SECTION 11 DISPOSAL CONSIDERATIONS

EPA WASTE NO. & DISPOSAL TREATMENT:
 MATERIAL DOES NOT HAVE AN EPA WASTE NUMBER AND IS NOT A LISTED WASTE.
NOTE: ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE AND ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

SECTION 12 TRANSPORT INFORMATION

DOT SHIPPING NAME..... NON-REGULATED
 DOT NUMBER..... NONE

SECTION 13 REGULATORY INFORMATION

TSCA INVENTORY : THE CAS NUMBER OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY.

- COMPONENT**N/A
- SARA EHS (302)** N/A
- SARA EHS TOQ (LBS)**N/A
- CERCLA RQ (LBS)** N/A
- OSHA FLOOR LIST** N/A
- SARA 313** N/A
- DeMinimis for SARA 313 (%)** . . . N/A

SECTION 14 OTHER INFORMATION

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NFPA Hazard Ratings	
Health:	0
Flammability:	0
Reactivity:	0
Special Hazards:	0

MSDS APPROVED BY: *Jerry D. Adams*

MATERIAL SAFETY DATA SHEET

Preparation & Last date Printed: 10/27/00 REV: F (WEBSITE)

Page 1 of 2

442

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MYRON L COMPANY 6115 CORTE DEL CEDRO, CARLSBAD, CA 92009, USA

INFORMATION PHONE # : (760) 438-2021, Contact either Jerry Adams or Gary Robinson

BUSINESS HOURS : Mon thru Fri 8:00-4:30 PM (Pacific Time)

This and additional Myron L Material Safety Data Sheets (MSDS) are available on the World Wide Web at: <http://www.myronl.com>

CHEMICAL NAME: Aqueous Salt Solution

CATALOG NUMBERS: 442-15, 442-30, 442-150, 442-300, 442-500, 442-1000, 442-1500, 442-3000, 442-15,000, 442-30,000, 442 Special

TRADE NAME & SYNONYMS: TDS/Conductivity Standard Solution, 442 Solution

CHEMICAL FAMILY: Inorganic Salts

CHEMICAL FORMULA: NaHCO₃, Na₂SO₄, NaCl and H₂O

CAS #: Sodium Bicarbonate #144-55-8
Sodium Sulfate #7757-82-6
Sodium Chloride #7647-14-5
Water #7732-18-5

SECTION 2 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT, 760mm Hg (°C)	102-107	SPECIFIC GRAVITY	1.0
FREEZE POINT (°C)	-0 TO -20	SOLUBILITY IN H ₂ O,% BY WT. @ 20° C	100%
VAPOR PRESSURE @ 20° C	N/A	APPEARANCE AND ODOR	COLORLESS, ODORLESS LIQUID
VAPOR DENSITY	N/A	EVAPORATION RATE	N/A
PERCENT VOLATILES BY VOLUME	N/A		

SECTION 3 FIRE FIGHTING MEASURES

FLASH POINT (TEST METHOD)	N/A	FLAMMABLE LIMITS	N/A	Lel	N/A	Uel	N/A
EXTINGUISHING MEDIA	NON-FLAMMABLE						
SPECIAL HAZARDS & PROCEDURES	N/A						
UNUSUAL FIRE & EXPLOSION HAZARDS	N/A						

SECTION 4 STABILITY AND REACTIVITY

STABILITY: Product stable under normal temperatures and pressures.	CONDITIONS TO AVOID: NONE KNOWN.
REACTIVITY: SAME AS WATER.	MATERIALS TO AVOID: (N/A) WATER, (N/A) ACIDS, (N/A) BASES, (N/A) OTHER SPECIFY

SECTION 5 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
CLEAN SPILL USING ABSORBENT MATERIALS AND WATER, AND THEN AIR OUT AREA.

SECTION 6 HAZARDS IDENTIFICATION

THRESHOLD LIMIT VALUE: NONE KNOWN.
EFFECTS OF OVEREXPOSURE: IRRITATING TO EYES, MUCOUS MEMBRANES, SKIN AND DIGESTIVE TRACT.
ROUTES OF ENTRY: INGESTION.
CARCINOGENICITY: MATERIAL IS NOT LISTED (IARC, NTP, OSHA) AS A CANCER CAUSING AGENT.

SECTION 7 FIRST AID MEASURES

FIRST AID PROCEDURES:
EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER.
SKIN CONTACT: RINSE WITH LARGE AMOUNTS OF WATER.
INGESTION: DRINK PLENTY OF WATER, DO NOT INDUCE VOMITING, SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

SECTION 8 PERSONAL PROTECTION

RESPIRATORY PROTECTION:	NONE REQUIRED.
VENTILATION:	NONE REQUIRED.
EYE PROTECTION:	RECOMMENDED.
PROTECTIVE GLOVES:	NONE REQUIRED.
PROTECTIVE CLOTHING:	NONE REQUIRED.

SECTION 9 HANDLING AND STORAGE

HANDLING: NORMAL USE DOES NOT GENERATE A HAZARDOUS SITUATION WHEN HANDLED IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.

STORAGE: STORE AT ROOM TEMPERATURE.

SECTION 10 TOXICOLOGICAL INFORMATION

TOXICITY DATA: N/A

TOXICOLOGICAL FINDING:
 TESTS ON LABORATORY ANIMALS INDICATE MATERIAL DOES NOT PRODUCE ADVERSE MUTAGENIC EFFECTS.
 CITED IN REGISTRY OF TOXIC EFFECTS OF SUBSTANCES (RTECS)

SECTION 11 DISPOSAL CONSIDERATIONS

EPA WASTE NO. & DISPOSAL TREATMENT:
 MATERIAL DOES NOT HAVE AN EPA WASTE NUMBER AND IS NOT A LISTED WASTE.

NOTE: ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE AND ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

SECTION 12 TRANSPORT INFORMATION

DOT SHIPPING NAME..... NON-REGULATED

DOT NUMBER..... NONE

SECTION 13 REGULATORY INFORMATION

TSCA INVENTORY: THE CAS NUMBER OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY.

- COMPONENT**N/A
- SARA EHS (302)** N/A
- SARA EHS TOQ (LBS)**N/A
- CERCLA RQ (LBS)** N/A
- OSHA FLOOR LIST** N/A
- SARA 313** N/A
- DeMinimis for SARA 313 (%)** . . . N/A

SECTION 14 OTHER INFORMATION

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NFPA Hazard Ratings	
Health:	0
Flammability:	0
Reactivity:	0
Special Hazards:	0

MSDS APPROVED BY: *Jerry D. Adams*

MATERIAL SAFETY DATA SHEET

Preparation & Last date Printed: 10/27/00 REV: E (WEBSITE)

Page 1 of 2

pH4

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MYRON L COMPANY 6115 CORTE DEL CEDRO, CARLSBAD, CA 92009, USA

INFORMATION PHONE # : (760) 438-2021, Contact either Jerry Adams or Gary Robinson

BUSINESS HOURS : Mon thru Fri 8:00-4:30 PM (Pacific Time)

This and additional Myron L Material Safety Data Sheets (MSDS) are available on the World Wide Web at: <http://www.myronl.com>

CHEMICAL NAME: Buffered Phthalate Solution

CATALOG NUMBERS: pH 4.00 Buffer

TRADE NAME & SYNONYMS: pH Reference Buffer Solution, pH 4.00

CHEMICAL FAMILY: Buffered Phthalate Dilute Solution

CHEMICAL FORMULA: $\text{KHC}_8\text{H}_4\text{O}_4$ and H_2O

CAS #: Potassium Hydrogen Phthalate
Water

#877-24-7
#7732-18-5

SECTION 2 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT, 760mm Hg (°C)	100	SPECIFIC GRAVITY	1.0
FREEZE POINT (°C)	0	SOLUBILITY IN H_2O , % BY WT. @ 20° C	100%
VAPOR PRESSURE @ 20° C	14 TORR	APPEARANCE AND ODOR	PINK OR LIGHT RED, ODORLESS LIQUID
VAPOR DENSITY	0.7 (H_2O)		
PERCENT VOLATILES BY VOLUME	N/A	EVAPORATION RATE (ETHER = 1)	1.0

SECTION 3 FIRE FIGHTING MEASURES

FLASH POINT (TEST METHOD)	N/A	FLAMMABLE LIMITS	N/A	Lel	N/A	Uel	N/A
EXTINGUISHING MEDIA	NON-FLAMMABLE						
SPECIAL HAZARDS & PROCEDURES	N/A						
UNUSUAL FIRE & EXPLOSION HAZARDS	N/A						

SECTION 4 STABILITY AND REACTIVITY

STABILITY: Product stable under normal temperatures and pressures.	CONDITIONS TO AVOID: NONE KNOWN.
REACTIVITY: SAME AS WATER.	MATERIALS TO AVOID: (N/A) WATER, (N/A) ACIDS, (N/A) BASES, (N/A) OTHER SPECIFY

SECTION 5 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

CLEAN SPILL USING ABSORBENT MATERIALS AND WATER, AND THEN AIR OUT AREA.

SECTION 6 HAZARDS IDENTIFICATION

THRESHOLD LIMIT VALUE:

EFFECTS OF OVEREXPOSURE:

ROUTES OF ENTRY:

CARCINOGENICITY:

NONE KNOWN.

IRRITATING TO EYES, MUCOUS MEMBRANES, SKIN AND DIGESTIVE TRACT.

INGESTION.

MATERIAL IS NOT LISTED (IARC, NTP, OSHA) AS A CANCER CAUSING AGENT.

SECTION 7 FIRST AID MEASURES

FIRST AID PROCEDURES:

EYE CONTACT:

SKIN CONTACT:

INGESTION:

FLUSH WITH LARGE AMOUNTS OF WATER.

WASH WITH SOAP AND RINSE WITH LARGE AMOUNTS OF WATER.

DRINK PLENTY OF WATER, INDUCE VOMITING, SEEK MEDICAL ATTENTION IMMEDIATELY.

SECTION 8 PERSONAL PROTECTION

RESPIRATORY PROTECTION:	NONE REQUIRED.
VENTILATION:	NONE REQUIRED.
EYE PROTECTION:	RECOMMENDED.
PROTECTIVE GLOVES:	NONE REQUIRED.
PROTECTIVE CLOTHING:	NONE REQUIRED.

SECTION 9 HANDLING AND STORAGE

HANDLING: NORMAL USE DOES NOT GENERATE A HAZARDOUS SITUATION WHEN HANDLED IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.
STORAGE: STORE AT ROOM TEMPERATURE.

SECTION 10 TOXICOLOGICAL INFORMATION

TOXICITY DATA: N/A

TOXICOLOGICAL FINDING:
 TESTS ON LABORATORY ANIMALS INDICATE MATERIAL DOES NOT PRODUCE ADVERSE MUTAGENIC EFFECTS.
 CITED IN REGISTRY OF TOXIC EFFECTS OF SUBSTANCES (RTECS)

SECTION 11 DISPOSAL CONSIDERATIONS

EPA WASTE NO. & DISPOSAL TREATMENT:
 MATERIAL DOES NOT HAVE AN EPA WASTE NUMBER AND IS NOT A LISTED WASTE.
NOTE: ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE AND ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

SECTION 12 TRANSPORT INFORMATION

DOT SHIPPING NAME..... NON-REGULATED
 DOT NUMBER..... NONE

SECTION 13 REGULATORY INFORMATION

TSCA INVENTORY : THE CAS NUMBER OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY.

- COMPONENT**N/A
- SARA EHS (302)** N/A
- SARA EHS TOQ (LBS)**N/A
- CERCLA RQ (LBS)** N/A
- OSHA FLOOR LIST** N/A
- SARA 313** N/A
- DeMinimis for SARA 313 (%)**N/A

SECTION 14 OTHER INFORMATION

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NEPA Hazard Ratings	
Health:	0
Flammability:	0
Reactivity:	0
Special Hazards:	0

MSDS APPROVED BY: *Jerry D. Adams*

MATERIAL SAFETY DATA SHEET

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Page 1 of 2

pH7

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MYRON L COMPANY 6115 CORTE DEL CEDRO, CARLSBAD, CA 92009, USA

INFORMATION PHONE # : (760) 438-2021, Contact either Jerry Adams or Gary Robinson

BUSINESS HOURS : Mon thru Fri 8:00-4:30 PM (Pacific Time)

This and additional Myron L Material Safety Data Sheets (MSDS) are available on the World Wide Web at: <http://www.myronl.com>

CHEMICAL NAME: Buffered Phosphate Solution

CATALOG NUMBERS: pH 7.0 Buffer

TRADE NAME & SYNONYMS: pH Reference Buffer Solution,pH 7.0

CHEMICAL FAMILY: Buffered Phosphate Dilute Solution

CHEMICAL FORMULA: Na₂HPO₄, KH₂PO₄ and H₂O

CAS #: Sodium Phosphate, Dibasic #7558-79-4
Potassium Phosphate, Monobasic #7778-77-0
Water #7732-18-5

SECTION 2 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT, 760mm Hg (°C)	100	SPECIFIC GRAVITY	1.0
FREEZE POINT (°C)	0	SOLUBILITY IN H ₂ O,% BY WT. @ 20° C	100%
VAPOR PRESSURE @ 20° C	14 TORR	APPEARANCE AND ODOR	YELLOW, ODORLESS LIQUID
VAPOR DENSITY	0.7 (H ₂ O)	EVAPORATION RATE (ETHER = 1)	1.0
PERCENT VOLATILES BY VOLUME	N/A		

SECTION 3 FIRE FIGHTING MEASURES

FLASH POINT (TEST METHOD)	N/A	FLAMMABLE LIMITS	N/A	LeI	N/A	UeI	N/A
EXTINGUISHING MEDIA	NON-FLAMMABLE						
SPECIAL HAZARDS & PROCEDURES	N/A						
UNUSUAL FIRE & EXPLOSION HAZARDS	N/A						

SECTION 4 STABILITY AND REACTIVITY

STABILITY: Product stable under normal temperatures and pressures.	CONDITIONS TO AVOID: NONE KNOWN.
REACTIVITY: SAME AS WATER.	MATERIALS TO AVOID: (N/A) WATER, (N/A) ACIDS, (N/A) BASES, (N/A) OTHER SPECIFY

SECTION 5 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
CLEAN SPILL USING ABSORBENT MATERIALS AND WATER, AND THEN AIR OUT AREA.

SECTION 6 HAZARDS IDENTIFICATION

THRESHOLD LIMIT VALUE: NONE KNOWN.
EFFECTS OF OVEREXPOSURE: IRRITATING TO EYES, MUCOUS MEMBRANES, SKIN AND DIGESTIVE TRACT.
ROUTES OF ENTRY: INGESTION.
CARCINOGENICITY: MATERIAL IS NOT LISTED (IARC, NTP, OSHA) AS A CANCER CAUSING AGENT.

SECTION 7 FIRST AID MEASURES

FIRST AID PROCEDURES:
EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER.
SKIN CONTACT: WASH WITH SOAP AND RINSE WITH LARGE AMOUNTS OF WATER.
INGESTION: DRINK PLENTY OF WATER, INDUCE VOMITING, SEEK MEDICAL ATTENTION IMMEDIATELY.

SECTION 8 PERSONAL PROTECTION

RESPIRATORY PROTECTION:	NONE REQUIRED.
VENTILATION:	NONE REQUIRED.
EYE PROTECTION:	RECOMMENDED.
PROTECTIVE GLOVES:	NONE REQUIRED.
PROTECTIVE CLOTHING:	NONE REQUIRED.

SECTION 9 HANDLING AND STORAGE

HANDLING: NORMAL USE DOES NOT GENERATE A HAZARDOUS SITUATION WHEN HANDLED IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.
STORAGE: STORE AT ROOM TEMPERATURE.

SECTION 10 TOXICOLOGICAL INFORMATION

TOXICITY DATA: N/A

TOXICOLOGICAL FINDING:
 TESTS ON LABORATORY ANIMALS INDICATE MATERIAL DOES NOT PRODUCE ADVERSE MUTAGENIC EFFECTS.
 CITED IN REGISTRY OF TOXIC EFFECTS OF SUBSTANCES (RTECS)

SECTION 11 DISPOSAL CONSIDERATIONS

EPA WASTE NO. & DISPOSAL TREATMENT:
 MATERIAL DOES NOT HAVE AN EPA WASTE NUMBER AND IS NOT A LISTED WASTE.
NOTE: ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE AND ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

SECTION 12 TRANSPORT INFORMATION

DOT SHIPPING NAME..... NON-REGULATED
 DOT NUMBER..... NONE

SECTION 13 REGULATORY INFORMATION

TSCA INVENTORY : THE CAS NUMBER OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY.

- COMPONENT**N/A
- SARA EHS (302)** N/A
- SARA EHS TOQ (LBS)**N/A
- CERCLA RQ (LBS)** N/A
- OSHA FLOOR LIST** N/A
- SARA 313** N/A
- DeMinimis for SARA 313 (%)** . . .N/A

SECTION 14 OTHER INFORMATION

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us; however, we make no warranty of merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from the use of this information. Users should make their own investigations to determine the suitability of the information for their particular needs and purposes.

NEPA Hazard Ratings	
Health:	0
Flammability:	0
Reactivity:	0
Special Hazards:	0

MSDS APPROVED BY: *Jerry D. Adams*

MATERIAL SAFETY DATA SHEET

Preparation & Last date Printed: 10/27/00 REV: F (WEBSITE)

Page 1 of 2

pH10

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MYRON L COMPANY 6115 CORTE DEL CEDRO, CARLSBAD, CA 92009, USA

INFORMATION PHONE # : (760) 438-2021, Contact either Jerry Adams or Gary Robinson

BUSINESS HOURS : Mon thru Fri 8:00-4:30 PM (Pacific Time)

This and additional Myron L Material Safety Data Sheets (MSDS) are available on the World Wide Web at: <http://www.myronl.com>

CHEMICAL NAME: Buffered Carbonate Solution

CATALOG NUMBERS: pH 10.0 Buffer

TRADE NAME & SYNONYMS: pH Reference Buffer Solution, pH 10.0

CHEMICAL FAMILY: Buffered Carbonate Dilute Solution

CHEMICAL FORMULA: NaHCO₃, Na₂CO and H₂O

CAS #: Sodium Bicarbonate #144-55-8
Sodium Carbonate #497-19-8
Water #7732-18-5

SECTION 2 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT, 760mm Hg (°C)	100	SPECIFIC GRAVITY	1.0
FREEZE POINT (°C)	0	SOLUBILITY IN H ₂ O,% BY WT. @ 20° C	100%
VAPOR PRESSURE @ 20° C	14 TORR	APPEARANCE AND ODOR	BLUE, ODORLESS LIQUID
VAPOR DENSITY	0.7 (H ₂ O)	EVAPORATION RATE (ETHER = 1)	1.0
PERCENT VOLATILES BY VOLUME	N/A		

SECTION 3 FIRE FIGHTING MEASURES

FLASH POINT (TEST METHOD)	N/A	FLAMMABLE LIMITS	N/A	Lel	N/A	Uel	N/A
EXTINGUISHING MEDIA	NON-FLAMMABLE						
SPECIAL HAZARDS & PROCEDURES	N/A						
UNUSUAL FIRE & EXPLOSION HAZARDS	N/A						

SECTION 4 STABILITY AND REACTIVITY

STABILITY: Product stable under normal temperatures and pressures.	CONDITIONS TO AVOID: NONE KNOWN.
REACTIVITY: SAME AS WATER.	MATERIALS TO AVOID: (N/A) WATER, (N/A) ACIDS, (N/A) BASES, (N/A) OTHER SPECIFY

SECTION 5 ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
CLEAN SPILL USING ABSORBENT MATERIALS AND WATER, AND THEN AIR OUT AREA.

SECTION 6 HAZARDS IDENTIFICATION

THRESHOLD LIMIT VALUE: NONE KNOWN.
EFFECTS OF OVEREXPOSURE: IRRITATING TO EYES, MUCOUS MEMBRANES, SKIN AND DIGESTIVE TRACT.
ROUTES OF ENTRY: INGESTION.
CARCINOGENICITY: MATERIAL IS NOT LISTED (IARC, NTP, OSHA) AS A CANCER CAUSING AGENT.

SECTION 7 FIRST AID MEASURES

FIRST AID PROCEDURES:
EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER.
SKIN CONTACT: WASH WITH SOAP AND RINSE WITH LARGE AMOUNTS OF WATER.
INGESTION: DRINK PLENTY OF WATER, INDUCE VOMITING, SEEK MEDICAL ATTENTION IMMEDIATELY.

SECTION 8 PERSONAL PROTECTION

RESPIRATORY PROTECTION:	NONE REQUIRED.
VENTILATION:	NONE REQUIRED.
EYE PROTECTION:	RECOMMENDED.
PROTECTIVE GLOVES:	NONE REQUIRED.
PROTECTIVE CLOTHING:	NONE REQUIRED.

SECTION 9 HANDLING AND STORAGE

HANDLING: NORMAL USE DOES NOT GENERATE A HAZARDOUS SITUATION WHEN HANDLED IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES.

STORAGE: STORE AT ROOM TEMPERATURE.

SECTION 10 TOXICOLOGICAL INFORMATION

TOXICITY DATA: N/A

TOXICOLOGICAL FINDING:
 TESTS ON LABORATORY ANIMALS INDICATE MATERIAL DOES NOT PRODUCE ADVERSE MUTAGENIC EFFECTS.
 CITED IN REGISTRY OF TOXIC EFFECTS OF SUBSTANCES (RTECS)

SECTION 11 DISPOSAL CONSIDERATIONS

EPA WASTE NO. & DISPOSAL TREATMENT:
 MATERIAL DOES NOT HAVE AN EPA WASTE NUMBER AND IS NOT A LISTED WASTE.

NOTE: ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE AND ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

SECTION 12 TRANSPORT INFORMATION

DOT SHIPPING NAME..... NON-REGULATED

DOT NUMBER..... NONE

SECTION 13 REGULATORY INFORMATION

TSCA INVENTORY : THE CAS NUMBER OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY.

- COMPONENT**N/A
- SARA EHS (302)** N/A
- SARA EHS TOQ (LBS)**N/A
- CERCLA RQ (LBS)** N/A
- OSHA FLOOR LIST** N/A
- SARA 313** N/A
- DeMinimis for SARA 313 (%)** . . .N/A

SECTION 14 OTHER INFORMATION

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NEPA Hazard Ratings	
Health:	0
Flammability:	0
Reactivity:	0
Special Hazards:	0

MSDS APPROVED BY: *Jerry D. Adams*

MATERIAL SAFETY DATA SHEET

Preparation & Last date Printed: 10/27/00 REV: B (WEBSITE)

Page 1 of 2

pHSS

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CHEMICAL NAME: Buffered Phthalate and Potassium Chloride Solution

CATALOG NUMBERS: SSQ, SSG

TRADE NAME & SYNONYMS: pH Sensor Storage Solution

CHEMICAL FAMILY: Phthalate Dilute Solution & Inorganic Salts

CHEMICAL FORMULA: $\text{KHC}_8\text{H}_4\text{O}_4$, KCl and H_2O

CAS #: Potassium Hydrogen Phthalate
Potassium Chloride
Water

#877-24-7
#7447-40-7
#7732-18-5

SECTION 2 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT, 760mm Hg (°C)	100	SPECIFIC GRAVITY	1.0
FREEZE POINT (°C)	0	SOLUBILITY IN H_2O ,% BY WT. @ 20° C	100%
VAPOR PRESSURE @ 20° C	14 TORR	APPEARANCE AND ODOR	COLORLESS, ODORLESS LIQUID
VAPOR DENSITY	0.7 (H_2O)	EVAPORATION RATE (ETHER = 1)	1.0
PERCENT VOLATILES BY VOLUME	N/A		

SECTION 3 FIRE FIGHTING PROPERTIES

FLASH POINT (TEST METHOD)	N/A	FLAMMABLE LIMITS	N/A	Lel	N/A	Uel	N/A
EXTINGUISHING MEDIA	NON-FLAMMABLE						
SPECIAL HAZARDS & PROCEDURES	N/A						
UNUSUAL FIRE & EXPLOSION HAZARDS	N/A						

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RESPIRATORY PROTECTION:	NONE REQUIRED.
VENTILATION:	NONE REQUIRED.
EYE PROTECTION:	RECOMMENDED.
PROTECTIVE GLOVES:	NONE REQUIRED.
PROTECTIVE CLOTHING:	NONE REQUIRED.

SECTION 9 HANDLING AND STORAGE

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STORAGE: STORE AT ROOM TEMPERATURE.

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DOT NUMBER..... NONE

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TSCA INVENTORY: THE CAS NUMBER OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY.

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- SARA EHS (302)** N/A
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- OSHA FLOOR LIST** N/A
- SARA 313** N/A
- DeMinimis for SARA 313 (%)** . . .N/A

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NEPA Hazard Ratings	
Health:	0
Flammability:	0
Reactivity:	0
Special Hazards:	0

MSDS APPROVED BY: *Jerry D. Adams*