

SECTION 1: IDENTIFICATION

1.1. IDENTIFICATION:

PRODUCT FORM: MIXTURE

PRODUCT NAME: BUFFER SOLUTION PH 7.00 YELLOW

PRODUCT CODE: LC12380

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

USE OF THE SUBSTANCE/MIXTURE: FOR LABORATORY AND MANUFACTURING USE ONLY.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

LABCHEM INC

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JACKSON'S POINTE COURT

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1.4. EMERGENCY TELEPHONE NUMBER:

EMERGENCY NUMBER:

CHEMTREC: 1-800-424-9300 OR 011-703-527-3887

SECTION 2: HAZARD(S) IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

GHS-US CLASSIFICATION: NOT CLASSIFIED

2.2. LABEL ELEMENTS: NOT CLASSIFIED AS A HAZARDOUS CHEMICAL.

2.3. OTHER HAZARDS:

OTHER HAZARDS NOT CONTRIBUTING TO THE CLASSIFICATION: NONE.

2.4. UNKNOWN ACUTE TOXICITY (GHS US): NOT APPLICABLE

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. SUBSTANCE: NOT APPLICABLE

3.2. MIXTURE:

NAME	PRODUCT IDENTIFIER	%	GHS-US CLASSIFICATION
WATER	(CAS NO): 7732-18-5	99.24	NOT CLASSIFIED
POTASSIUM PHOSPHATE, MONOBASIC	(CAS NO): 7778-77-0	0.68	NOT CLASSIFIED

SODIUM HYDROXIDE (CAS NO): 1310-73-2 0.08 ACUTE TOX. 4 (DERMAL),
H312
SKIN CORR. 1A, H314
EYE DAM. 1, H318
AQUATIC ACUTE 3, H402

FULL TEXT OF HAZARD CLASSES AND H-STATEMENTS: SEE SECTION 16

SECTION 4: FIRST AID MEASURES



4.1. DESCRIPTION OF FIRST AID MEASURES:

FIRST-AID MEASURES GENERAL:

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE (SHOW THE LABEL WHERE POSSIBLE).

FIRST-AID MEASURES AFTER INHALATION:

ALLOW VICTIM TO BREATHE FRESH AIR. ALLOW THE VICTIM TO REST.

FIRST-AID MEASURES AFTER SKIN CONTACT:

REMOVE AFFECTED CLOTHING AND WASH ALL EXPOSED SKIN AREA WITH MILD SOAP AND WATER, FOLLOWED BY WARM WATER RINSE.

FIRST-AID MEASURES AFTER EYE CONTACT:

RINSE IMMEDIATELY WITH PLENTY OF WATER. OBTAIN MEDICAL ATTENTION IF PAIN, BLINKING OR REDNESS PERSIST.

FIRST-AID MEASURES AFTER INGESTION:

RINSE MOUTH. DO NOT INDUCE VOMITING. OBTAIN EMERGENCY MEDICAL ATTENTION.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

SYMPTOMS/INJURIES:

NOT EXPECTED TO PRESENT A SIGNIFICANT HAZARD UNDER ANTICIPATED CONDITIONS OF NORMAL USE.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: NO ADDITIONAL INFORMATION AVAILABLE

SECTION 5: FIREFIGHTING MEASURES



5.1. EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING MEDIA:

FOAM. DRY POWDER. CARBON DIOXIDE. WATER SPRAY. SAND.

UNSUITABLE EXTINGUISHING MEDIA: DO NOT USE A HEAVY WATER STREAM.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

NO ADDITIONAL INFORMATION AVAILABLE

5.3. ADVICE FOR FIREFIGHTERS:

FIREFIGHTING INSTRUCTIONS:

USE WATER SPRAY OR FOG FOR COOLING EXPOSED CONTAINERS. EXERCISE CAUTION WHEN FIGHTING ANY CHEMICAL FIRE. PREVENT FIRE-FIGHTING WATER FROM ENTERING ENVIRONMENT.

PROTECTION DURING FIREFIGHTING:

DO NOT ENTER FIRE AREA WITHOUT PROPER PROTECTIVE EQUIPMENT, INCLUDING RESPIRATORY PROTECTION.

SECTION 6: ACCIDENTAL RELEASE MEASURES



6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

6.1.1. FOR NON-EMERGENCY PERSONNEL:

PROTECTIVE EQUIPMENT: SAFETY GLASSES.

EMERGENCY PROCEDURES: EVACUATE UNNECESSARY PERSONNEL.

6.1.2. FOR EMERGENCY RESPONDERS:

PROTECTIVE EQUIPMENT: EQUIP CLEANUP CREW WITH PROPER PROTECTION.

EMERGENCY PROCEDURES: VENTILATE AREA.

6.2. ENVIRONMENTAL PRECAUTIONS:

PREVENT ENTRY TO SEWERS AND PUBLIC WATERS. NOTIFY AUTHORITIES IF LIQUID ENTERS SEWERS OR PUBLIC WATERS.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

METHODS FOR CLEANING UP:

SOAK UP SPILLS WITH INERT SOLIDS, SUCH AS CLAY OR DIATOMACEOUS EARTH AS SOON AS POSSIBLE. COLLECT SPILLAGE. STORE AWAY FROM OTHER MATERIALS.

6.4. REFERENCE TO OTHER SECTIONS:

SEE HEADING 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION.

SECTION 7: HANDLING AND STORAGE



7.1. PRECAUTIONS FOR SAFE HANDLING:

PRECAUTIONS FOR SAFE HANDLING:

WASH HANDS AND OTHER EXPOSED AREAS WITH MILD SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING AND WHEN LEAVING WORK. PROVIDE GOOD VENTILATION IN PROCESS AREA TO PREVENT FORMATION OF VAPOR.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

STORAGE CONDITIONS: KEEP CONTAINER CLOSED WHEN NOT IN USE.

INCOMPATIBLE PRODUCTS: STRONG OXIDIZERS.

INCOMPATIBLE MATERIALS: NONE KNOWN.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION



8.1. CONTROL PARAMETERS:

POTASSIUM PHOSPHATE, MONOBASIC (7778-77-0): NOT APPLICABLE

SODIUM HYDROXIDE (1310-73-2):

ACGIH:

ACGIH CEILING (MG/M3):

2 MG/M3 (SODIUM HYDROXIDE; USA; MOMENTARY VALUE; TLV - ADOPTED VALUE)

OSHA:

OSHA PEL (TWA) (MG/M3): 2 MG/M3

IDLH:

US IDLH (MG/M3): 10 MG/M3

NIOSH:

NIOSH REL (CEILING) (MG/M3): 2 MG/M3

WATER (7732-18-5): NOT APPLICABLE

8.2. EXPOSURE CONTROLS:

PERSONAL PROTECTIVE EQUIPMENT: SAFETY GLASSES.

EYE PROTECTION: CHEMICAL GOGGLES OR SAFETY GLASSES.

RESPIRATORY PROTECTION:

RESPIRATORY PROTECTION NOT REQUIRED IN NORMAL CONDITIONS.

OTHER INFORMATION: DO NOT EAT, DRINK OR SMOKE DURING USE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES



9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE: LIQUID

APPEARANCE: YELLOW LIQUID.

COLOR: YELLOW

ODOR: NONE.

ODOR THRESHOLD: NO DATA AVAILABLE

PH: 7

MELTING POINT: NO DATA AVAILABLE

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): NON FLAMMABLE.

VAPOR PRESSURE: NO DATA AVAILABLE

RELATIVE VAPOR DENSITY AT 20 DEG. C: NO DATA AVAILABLE

RELATIVE DENSITY: NO DATA AVAILABLE

SOLUBILITY: SOLUBLE IN WATER.

LOG POW: NO DATA AVAILABLE

AUTO-IGNITION TEMPERATURE: NO DATA AVAILABLE

DECOMPOSITION TEMPERATURE: NO DATA AVAILABLE

VISCOSITY, KINEMATIC: NO DATA AVAILABLE

VISCOSITY, DYNAMIC: NO DATA AVAILABLE

EXPLOSION LIMITS: NO DATA AVAILABLE

EXPLOSIVE PROPERTIES: NO DATA AVAILABLE

OXIDIZING PROPERTIES: 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: STABLE UNDER NORMAL CONDITIONS.
- 10.3. POSSIBILITY OF HAZARDOUS REACTIONS: NOT ESTABLISHED.
- 10.4. CONDITIONS TO AVOID:
NONE UNDER RECOMMENDED STORAGE AND HANDLING CONDITIONS (SEE SECTION 7).
- 10.5. INCOMPATIBLE MATERIALS: STRONG OXIDIZERS.
- 10.6. HAZARDOUS DECOMPOSITION PRODUCTS: PHOSPHORUS OXIDES. SODIUM OXIDE.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS:
- LIKELY ROUTES OF EXPOSURE: SKIN AND EYE CONTACT
- ACUTE TOXICITY: NOT CLASSIFIED
- POTASSIUM PHOSPHATE, MONOBASIC (7778-77-0):
LD50 DERMAL RABBIT: 4640 MG/KG
ATE US (DERMAL): 4640.000 MG/KG BODY WEIGHT
- SODIUM HYDROXIDE (1310-73-2):
ATE US (DERMAL): 1350.000 MG/KG BODY WEIGHT
- WATER (7732-18-5):
LD50 ORAL RAT: >/=90000 MG/KG
ATE US (ORAL): 90000.000 MG/KG BODY WEIGHT
- SKIN CORROSION/IRRITATION: NOT CLASSIFIED
PH: 7
- SERIOUS EYE DAMAGE/IRRITATION: NOT CLASSIFIED
PH: 7
- 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
- POTENTIAL ADVERSE HUMAN HEALTH EFFECTS AND SYMPTOMS:
BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1. TOXICITY:

SODIUM HYDROXIDE (1310-73-2):

LC50 FISH 1:

45.4 MG/L (LC50; OTHER; 96 H; SALMO GAIRDNERI; STATIC SYSTEM; FRESH WATER; EXPERIMENTAL VALUE)

12.2. PERSISTENCE AND DEGRADABILITY:

BUFFER SOLUTION PH 7.00 YELLOW:

PERSISTENCE AND DEGRADABILITY: NOT ESTABLISHED.

POTASSIUM PHOSPHATE, MONOBASIC (7778-77-0):

PERSISTENCE AND DEGRADABILITY: NOT ESTABLISHED.

SODIUM HYDROXIDE (1310-73-2):

PERSISTENCE AND DEGRADABILITY:

BIODEGRADABILITY:

NOT APPLICABLE. NO TEST DATA ON MOBILITY OF THE SUBSTANCE AVAILABLE.

BIOCHEMICAL OXYGEN DEMAND (BOD): NOT APPLICABLE

CHEMICAL OXYGEN DEMAND (COD): NOT APPLICABLE

THOD: NOT APPLICABLE

WATER (7732-18-5):

PERSISTENCE AND DEGRADABILITY: NOT ESTABLISHED.

12.3. BIOACCUMULATIVE POTENTIAL:

BUFFER SOLUTION PH 7.00 YELLOW:

BIOACCUMULATIVE POTENTIAL: NOT ESTABLISHED.

POTASSIUM PHOSPHATE, MONOBASIC (7778-77-0):

BIOACCUMULATIVE POTENTIAL: NOT ESTABLISHED.

SODIUM HYDROXIDE (1310-73-2):

BIOACCUMULATIVE POTENTIAL: NO BIOACCUMULATION DATA AVAILABLE.

WATER (7732-18-5):

BIOACCUMULATIVE POTENTIAL: NOT ESTABLISHED.

12.4. MOBILITY IN SOIL: NO ADDITIONAL INFORMATION AVAILABLE

12.5. OTHER ADVERSE EFFECTS:

EFFECT ON THE GLOBAL WARMING: NO KNOWN EFFECTS FROM THIS PRODUCT.

GWPMIX COMMENT: NO KNOWN EFFECTS FROM THIS PRODUCT.

OTHER INFORMATION: AVOID RELEASE TO THE ENVIRONMENT.

SECTION 13: DISPOSAL CONSIDERATIONS



13.1. WASTE TREATMENT METHODS:

WASTE DISPOSAL RECOMMENDATIONS:

DISPOSE IN A SAFE MANNER IN ACCORDANCE WITH LOCAL/NATIONAL REGULATIONS.

ECOLOGY - WASTE MATERIALS: AVOID RELEASE TO THE ENVIRONMENT.

SECTION 14: TRANSPORT INFORMATION



DEPARTMENT OF TRANSPORTATION (DOT):

IN ACCORDANCE WITH DOT: NOT REGULATED

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

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 SUBSECTION 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.

SODIUM HYDROXIDE (1310-73-2):

RQ (REPORTABLE QUANTITY, SECTION 304 OF EPA'S LIST OF LISTS): 1000 LB
SARA SECTION 311/312 HAZARD CLASSES: IMMEDIATE (ACUTE) HEALTH HAZARD

15.2. INTERNATIONAL REGULATIONS:

CANADA:

BUFFER SOLUTION PH 7.00 YELLOW:

WHMIS CLASSIFICATION:

UNCONTROLLED PRODUCT ACCORDING TO WHMIS CLASSIFICATION CRITERIA

POTASSIUM PHOSPHATE, MONOBASIC (7778-77-0):

WHMIS CLASSIFICATION:

UNCONTROLLED PRODUCT ACCORDING TO WHMIS CLASSIFICATION CRITERIA

SODIUM HYDROXIDE (1310-73-2):

LISTED ON THE CANADIAN DSL (DOMESTIC SUBSTANCES LIST)

WHMIS CLASSIFICATION: CLASS E - CORROSIVE MATERIAL

WATER (7732-18-5):

WHMIS CLASSIFICATION:

UNCONTROLLED PRODUCT ACCORDING TO WHMIS CLASSIFICATION CRITERIA

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, DEVELOPMENTAL AND/OR REPRODUCTIVE HARM

SECTION 16: OTHER INFORMATION



REVISION DATE: 12/22/2016

OTHER INFORMATION: NONE.

FULL TEXT OF H-PHRASES: SEE SECTION 16:

H312: HARMFUL IN CONTACT WITH SKIN

H314: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE

H318: CAUSES SERIOUS EYE DAMAGE

H402: HARMFUL TO AQUATIC LIFE

NFPA HEALTH HAZARD 0 - EXPOSURE UNDER FIRE CONDITIONS WOULD OFFER NO HAZARD BEYOND THAT OF ORDINARY COMBUSTIBLE MATERIALS.
NFPA FIRE HAZARD 0 - MATERIALS THAT WILL NOT BURN.
NFPA REACTIVITY 0 - NORMALLY STABLE, EVEN UNDER FIRE EXPOSURE CONDITIONS, AND ARE NOT REACTIVE WITH WATER.

HMIS III RATING:

HEALTH 0 MINIMAL HAZARD - NO SIGNIFICANT RISK TO HEALTH
FLAMMABILITY 0 MINIMAL HAZARD - MATERIALS THAT WILL NOT BURN
PHYSICAL 0 MINIMAL HAZARD - MATERIALS THAT ARE NORMALLY STABLE, EVEN UNDER FIRE CONDITIONS, AND WILL NOT REACT WITH WATER, POLYMERIZE, DECOMPOSE, CONDENSE, OR SELF-REACT. NON-EXPLOSIVES.

PERSONAL PROTECTION A

A - SAFETY GLASSES

SDS US LABCHEM:

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EN (ENGLISH US)

LC

LABCHEM

PERFORMANCE THROUGH CHEMISTRY

BUFFER SOLUTION PH 7.40

SAFETY DATA SHEET

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