Safety Data Sheet

Revision Date: **7/31/2014**

SDS #: SDS-10242-01

pNPP ELISA Substrate

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	**Product Code**
pNPP ELISA Substrate	50-80-00

Kit Components:

Phosphatase Substrate p-Nitrophenyl Phosphate Hexahydrate Disodium Salt Tablets (pNPP)	50-80-01
DEA Buffer Solution	50-80-02

Recommended Use Kit (See Attached Safety Data Sheets For Components Listed Above)

Contact Manufacturer KPL, Inc.
910 Clopper Road
Gaithersburg, Maryland 20878
USA

Phone #: 1-301-948-7755
Fax #: 1-301-948-0169
Web: www.kpl.com
Email: kplmsds@seracare.com

Emergency Telephone Numbers:

AUSTRALIA – POISONS INFORMATION CENTER	Telephone: 13 11 26	Hours: 24 hours
CANADIAN TRANSPORT EMERGENCY CENTER	Telephone: (1) 613 996 6666	Hours: 24 hours/day, 7 days/week
UK – THE NATIONAL FOCUS	Telephone: (44) 029 2041 6388	Hours: 09:00-17:00 GMT
USA- NATIONAL RESPONSE CENTER	Telephone: (1) 800 424 8802	Hours: 24 hours/day, 7 days/week

CHEMTREC:

CHEMTREC Customer Number:- CCN12505*
For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 CCN12505 or
+1 703-527-3887 (collect calls accepted)

Safety Data Sheet

Revision Date: 6/30/2014

MSDS #: 10197

Diethanolamine Buffer Solution

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	Product Code
DEA Buffer Solution	50-80-04
DEA Buffer Solution	50-80-02

Hazardous Reagent
Diethanolamine Buffer Solution

Hazardous Reagent Product code
Catalog No. listed above

Recommended Use Reagent

Contact Manufacturer KPL, Inc.
910 Clopper Road
Gaithersburg, Maryland 20878
USA

Phone #: 1-301-948-7755
Fax #: 1-301-948-0169
Web: www.kpl.com
Email: kplmsds@seracare.com

Emergency Telephone Numbers:

AUSTRALIA – POISONS INFORMATION CENTER	Telephone: 13 11 26	Hours: 24 hours
CANADIAN TRANSPORT EMERGENCY CENTER	Telephone: (1) 613 996 6666	Hours: 24 hours/day, 7 days/week
UK – THE NATIONAL FOCUS	Telephone: (44) 029 2041 6388	Hours: 09:00-17:00 GMT
USA- NATIONAL RESPONSE CENTER	Telephone: (1) 800 424 8802	Hours: 24 hours/day, 7 days/week

CHEMTREC: CHEMTREC Customer Number:- CCN12505*
For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 CCN12505 or
+1 703-527-3887 (collect calls accepted)

2. HAZARD IDENTIFICATION

Hazard Type
Health Hazard: R22 : Harmful if swallowed. R38 : Irritating to skin. R41 : Risk of serious damage to eyes. R48/22 : Harmful: danger of serious damage to health by prolonged exposure if swallowed. R37 : Irritating to respiratory system.

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Classification
Acute Tox. 4 : H302
STOT RE 2: H373
Skin Irrit. 2: H315
Eye Dam. 1: H318

Hazard Statement
H302: Harmful if swallowed
H373: May cause damage to Skin, Eye or Gastrointestinal tract through prolonged or repeated exposure .
H315: Causes skin irritation
H318: Causes serious eye damage

Precautionary Statement
P264: Wash skin thoroughly after handling. | P270: Do not eat, drink or smoke when using this product. | P301 + P312: If Swallowed Call a POISON CENTER or doctor/physician if you feel unwell. | P330 Rinse mouth.

Symbols of Danger
GHS08; GHS05; GHS07; Danger

Diethanolamine Buffer Solution

Data for 100% Hazardous Chemical

ROUTES OF EXPOSURE:	The substance can be absorbed into the body by inhalation of its vapour and by ingestion.
INHALATION RISK:	A harmful contamination of the air will not or will only very slowly be reached on evaporation of this substance at 20°C.
SHORT-TERM EXPOSURE	The substance is corrosive to the eyes.
LONG-TERM EXPOSURE:	Repeated or prolonged contact may cause skin sensitization. The substance may have effects on the liver and kidneys .

The product is a Mixture. It May Cause the following symptoms.

Redness. Pain. Severe deep burns.

Not Available

Not Available

Abdominal pain. Burning sensation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CHEMICAL	% Weight	CAS #:
Diethanolamine Buffer Solution	2,2'-iminodiethanol	52.5%	111-42-2

Classification

Acute Tox. 4 : H302
STOT RE 2: H373
Skin Irrit. 2: H315
Eye Dam. 1: H318

4. FIRST AID MEASURES

Data for 100% Hazardous Chemical

Ingestion First Aid:	Rinse mouth. Give one or two glasses of water to drink. Refer for medical attention. Rest.
Inhalation First Aid:	Fresh air, rest.
Skin First Aid:	Remove contaminated clothes. Rinse skin with plenty of water or shower.
Eye First Aid:	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

5. FIRE FIGHTING MEASURES

Data For 100% Hazardous Chemical

Fire Acute Hazard:	Fire Prevention:	Fire Fighting:
Combustible.	NO open flames.	Powder, water spray, foam, carbon dioxide.

Explosion Acute Hazard:

Not Available	Not Available	Not Available

CHEMICAL DANGERS: The substance decomposes on burning producing toxic fumes . The solution in water is a medium strong base. Reacts violently with strong oxidants , strong acids . Attacks copper, zinc, aluminium, and their alloys.

PHYSICAL DANGERS: The vapour is heavier than air.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Method of Containment	Keep in suitable, closed containers for disposal.
Methods of Clean-up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Other Information	For disposal see section 13.

Data for 100% Hazardous Chemical

SPILLAGE DISPOSAL	Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Then remove to safe place. (Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust.)

7. HANDLING AND STORAGE

Handling: Wear appropriate PPE. See section 8

Storage: Separated from strong oxidants and acids. Store at 2 - 8°C.

Data for 100% Hazardous Chemical

STORAGE	Separated from strong oxidants, and acids. Dry.

8. EXPOSURE CONTROL

Data for 100% Hazardous Chemical

•INHALATION	Local exhaust or breathing protection.
•EYES	Safety goggles, or eye protection in combination with breathing protection.
•SKIN	Protective gloves. Protective clothing.
•INGESTION	Do not eat, drink, or smoke during work.

Engineering Controls Data for 100% 2,2'-iminodiethanol: 8.6 EPA Reportable Quantity: 100 pounds
EPA Pollution Category: B
RCRA Waste Number: Not listed
EPA FWPCA List: Not listed

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear, Colorless solution

Physical State Liquid **pH:** 9.3 - 9.5

Data for 100% Hazardous Chemical

Boiling point: °C	Melting point: 28°C	Relative density (water = 1): 1.09 (liquid)	Solubility in water:	very good	Vapour pressure, Pa at 20°C: <1
Relative vapour density (air = 1): 3.65	Flash point: 134°C o.c.	Auto-ignition temperature: 662°C	Explosive limits, vol% in air: 1.7-9.8	Octanol/water partition coefficient as log Pow: -1.43	

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions. Stability During Transport: Stable

Incompatibility Materials to Avoid Potentially Incompatible Absorbents

Use caution: Liquids with this reactive group classification have been known to react with the absorbents listed below.
•Cellulose-Based Absorbents
•Mineral-Based & Clay-Based Absorbents

Hazardous Decomposition Products Flammable gaseous hydrogen is generated by amines in combination with strong reducing agents, such as hydrides.

Hazardous Polymerization Polymerization: Not pertinent Inhibitor of Polymerization: Not pertinent

Data for 100% Hazardous Chemical

CHEMICAL DANGERS:	The substance decomposes on burning producing toxic fumes . The solution in water is a medium strong base. Reacts violently with strong oxidants , strong acids . Attacks copper, zinc, aluminium, and their alloys.
PHYSICAL DANGERS:	The vapour is heavier than air.

11. TOXICOLOGY MEASURES

Acute Toxicity

The toxicological risks are minor due to the low concentration of hazardous ingredients. The following toxicological information is for the hazardous ingredient in pure form.

LD50 Oral Data for 100% 2,2'-iminodiethanol: Species Rat:

Value: 680 mg/kg
Reference: National Technical Information Service. Vol. OTS0516797,

LD50 Dermal Data for 100% 2,2'-iminodiethanol: Species: Rabbit
Value: 8380 mg/kg
Reference: National Technical Information Service. Vol. OTS0516797

LC50 Inhalation Not Available

Chronic Toxicity

Carcinogenicity IARC: 2B - Group 2B: Possibly carcinogenic to humans (Diethanolamine)
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a
known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a
carcinogen or potential carcinogen by OSHA.

Irritation Data for 100% 2,2'-iminodiethanol: Skin corrosion/irritation
Skin - rabbit
Result: Mild skin irritation - 24 h
(Draize Test)
Serious eye damage/eye irritation
Eyes - rabbit
Result: Severe eye irritation - 24 h

Corrosivity Not Available.

Sensitization Not Available

Neurological Effects Not Available

Mutagenic Effects Not Available

Reproductive Effects Not Available

Developmental Effects Not Available

Target Organ Effects Eyes, Skin, Gastrointestinal tract

Other adverse effects Data for 100% 2,2'-iminodiethanol: - Additional Information
RTECS: KL2975000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Liver - Irregularities - Based on Human Evidence
Liver - Irregularities - Based on Human Evidence

12. ECOLOGICAL MEASURES

Ecotoxicity

Data for 100% 2,2'-iminodiethanol: LC50 Fish (96 hours)

Minimum: 100 mg/l
Maximum: 4710 mg/l
Median: 1480 mg/l

Study number: 5

Reference for median:

Mayes, M.A., H.C. Alexander, and D.C. Dill 1983. A Study to Assess the Influence of Age on the Response of Fathead Minnows in Static Acute Toxicity Tests. Bull.Environ.Contam.Toxicol. 31(2):139-147

Persistence/Degradability

Data for 100% 2,2'-iminodiethanol: TESTED FOR BIODEGRADABILITY EMPLOYING BACTERIUM ISOLATED FROM CUTTING FLUID & A SEWAGE POPULATION. SHOWED THAT DIETHANOLAMINE WAS DEGRADABLE, BEING OXIDIZED TO MEANINGFUL EXTENT.
[GANNON JE ET AL; MICROBIAL DEGRADATION OF DIETHANOLAMINE AND RELATED COMPOUNDS; MICROBIS 23(91) 7 (1978)] **PEER REVIEWED**

Mobility in Environmental Media

Data for 100% 2,2'-iminodiethanol: A soil adsorption coefficient (Koc) of 4 was estimated for diethanolamine based on a log Kow of -1.43(1,2,SRC). This Koc value and the complete solubility of DEA in water suggests that this compound would be extremely mobile in soil and would not adsorb appreciably to suspended solids and sediments in water(3,4,SRC). However, diethanolamine is a base (pKa 8.97 at 25 deg C(5)) and may exist in the protonated form under environmental conditions (pH 5-9). Protonation may result in greater adsorption and less mobility than its water solubility or log Kow indicate. Futhermore, diethanolamine has been shown to adsorb to humic acid which may be contained in soils and sediments(6). The adsorption of diethanolamine on humic acid changed very slightly from pH 4-8, (40-45% adsorption)(6).
[(1) Hansch C, Leo AJ; Medchem Project Issue no. 26 Claremont, CA: Pomona College (1985) (2) Lyman WJ et al; Handbook of Chemical Property Estimation Methods NY: McGraw-Hill p. 4-9 (1982) (3) Dow Chemical; The Alkanolamines Handbook Midland, MI: Dow Chemical (1980) (4) Swann RL et al; Res Rev 85: 17-28 (1983) (5) Chremos G, Zimmerman HJKR; Texas J Sci 11; 467-70 (1959) (6) Sithole BB, Guy RD; Environ Int 11: 499-504 (1985)] **PEER REVIEWED**

Bioaccumulation/ Accumulation

Data for 100% 2,2'-iminodiethanol: A bioconcentration factor (BCF) of <1 was estimated for diethanolamine (DEA) based on a log Kow of - 1.43(1,2,SRC). This BCF value and complete solubility of DEA in water suggest that this compound does not bioconcentrate significantly in aquatic organisms(3,SRC).
[(1) Hansch C, Leo AJ; Medchem Project Issue no. 26 Claremont, CA: Pomona College (1985) (2) Lyman WJ et al; Handbook of Chemical Property Estimation Methods NY: McGraw-Hill p. 5-5 (1982) (3) Dow Chemical; The Alkanolamines Handbook Midland, MI: Dow Chemical (1980)] **PEER REVIEWED**

13. DISPOSAL MEASURES

Waste Disposal Method:

Observe all Federal, State and Local laws concerning health and pollution.
SMALL DRY SPILL: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

SMALL SPILL: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

LARGE SPILL: Dike far ahead of liquid spill for later disposal. Cover powder spill with plastic sheet or tarp to minimize spreading. Prevent entry into waterways, sewers, basements or confined areas.

Contaminated Packaging:

Observe all Federal, State and Local laws concerning health and pollution. Do not touch or walk through spilled material. Stop leak if you can do it without risk.

US EPA Waste Number:

Data for 100% 2,2'-iminodiethanol: EPA Reportable Quantity: 100 pounds
EPA Pollution Category: B
RCRA Waste Number: Not listed
EPA FWPCA List: Not listed

14. TRANSPORTATION MEASURES

DOT: Data for 100% 2,2'-iminodiethanol: DOT (US)
UN number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Diethanolamine)
Reportable Quantity (RQ): 100 lbs
Marine pollutant: No
Poison Inhalation Hazard: No

IATA: Not Available

ADR (road)/ RID (rail): Not Available

IMDG (sea): Not Available

General Transport Regulations Not Applicable

15. REGULATORY MEASURES

This product is a mixture that may contain one or more hazardous chemicals. The hazardous ingredients listed are only those as required by 29 CFR 1910.1200 g 2.C1.

SARA 313

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:
Diethanolamine CAS-No. 111-42-2 Revision Date 2011-07-01

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (See 40 CFR 61)

Listed: Diethanolamine CAS-No. 111-42-2

State Regulations

California Proposition 65:

This product contains the following Proposition 65 chemicals: Diethanolamine
Type of Toxicity: Cancer
CAS NO. 111-42-2
Date Listed: June 22, 2012

State Right to Know Act

Chemical Name	**2,2'-iminodiethanol**
Massachusetts	Listed
New Jersey	Listed
Pennsylvania	Listed
New York	Listed
Rhode Island	Listed

International Inventories

Chemical Name	**2,2'-iminodiethanol**
TSCA	
DSL	Listed
NDSL	Not Listed
EINECS	Listed
CHINA	Listed
KECL	Listed
JAPAN:	Listed
AICS	Listed

EU Regulations

Annex I Index#	603-070-00-6
Classification	Acute Tox. 4 : H302 STOT RE 2: H373 Skin Irrit. 2: H315 Eye Dam. 1: H318
Risk Phrases	H302: Harmful if swallowed H373: May cause damage to Skin, Eye or Gastrointestinal tract through prolonged or repeated exposure . H315: Causes skin irritation H318: Causes serious eye damage
Safety Phrases	P264: Wash skin thoroughly after handling. | P270: Do not eat, drink or smoke when using this product. | P301 + P312: If Swallowed Call a POISON CENTER or doctor/physician if you feel unwell. | P330 Rinse mouth.
Symbols and Indications of Danger	GHS08; GHS05; GHS07; Danger
Specific Concentration Limits	Not Available
Export and Import	This substance is not listed in the Annex I of Regulation (EC) No 649/2012.
European Priority List	This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.).

16. OTHER INFORMATION

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. KPL shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes. This material is sold for research purposes and is intended as laboratory reagents only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals.

Revision Date: 6/30/2014

Safety Data Sheet

Revision Date: **7/5/2014**

SDS #: **10198** **Phosphatase Substrate p-Nitrophenyl Phosphate Hexahydrate Disodium Salt Tablets (pNPP)**

1. PRODUCT AND COMPANY IDENTIFICATION

Product Description:	**Product Code**
Phosphatase Substrate p-Nitrophenyl Phosphate Hexahydrate Disodium Salt Tablets (pNPP)	50-80-01

Hazardous Reagent
None

Hazardous Reagent Product code
None

Recommended Use

Contact Manufacturer KPL, Inc.
910 Clopper Road
Gaithersburg, Maryland 20878
USA

Phone #: 1-301-948-7755
Fax #: 1-301-948-0169
Web: www.kpl.com
Email: kplmsds@seracare.com

Emergency Telephone Numbers:

AUSTRALIA – POISONS INFORMATION CENTER	Telephone: 13 11 26	Hours: 24 hours
CANADIAN TRANSPORT EMERGENCY CENTER	Telephone: (1) 613 996 6666	Hours: 24 hours/day, 7 days/week
UK – THE NATIONAL FOCUS	Telephone: (44) 029 2041 6388	Hours: 09:00-17:00 GMT
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For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
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+1 703-527-3887 (collect calls accepted)

2. HAZARD IDENTIFICATION

Hazard Type GHS Classification in accordance with 29 CFR 1910 (OSHA HCS): The product contains no substances which at their given concentration, are considered to be hazardous to health or the environment.

Principle Route of Exposure Not Available

Acute Effects: Eye: May cause redness and irritation

Acute Effects: Skin: Prolonged and repeated contact with product may cause skin irritation.

Acute Effects: Inhalation: May cause irritation to the respiratory tract.

Acute Effects: Ingestion: May be harmful if swallowed.

Chronic Effects: Not Available

Additional Information None Available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CHEMICAL	% Weight	CAS #:
Phosphatase Substrate p-Nitrophenyl Phosphate Hexahydrate Disodium Salt	Sodium Chloride	<10%	7647-14-5

GHS Classification

EC# : 231-598-3
CAS# : 7647-14-5
Substance Name : sodium chloride
Molecular Formula : ClNa
Not Classified

4. FIRST AID MEASURES

General Advice Wash contaminated clothing before reuse. Consult a physician if irritation persists

Oral Exposure Rinse mouth. Refer for medical attention.

Inhalation Exposure Remove subject to fresh air. Seek medical attention if necessary.

Skin Exposure Rinse skin with plenty of water or shower. Remove all contaminated clothes and shoes.

Eye Exposure First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

5. FIRE FIGHTING MEASURES

Extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.Water spray. Alcohol-resistant foam. Dry powder. Carbon dioxide.

Unusual Fire and Explosive Hazards Not Available

Flash Point Not Available

Autoignition Temperature Not Available

Flammability Statement Not Available

Specific hazards arising from the chemical Not Available

Protective equipment and precautions for firefighters In case of fire: keep drums, etc., cool by spraying with water. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear appropriate personal protective clothing to prevent skin contact.
Environmental Precautions	Not Available
Method of Containment	Collect leaking and spilled liquid in sealable containers as far as possible.
Methods of Clean-up	Wash away remainder with plenty of water.
Other Information	Not Available

7. HANDLING AND STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation in confined areas. Ensure adequate ventilation.
Storage:	Keep container tightly closed in a dry and well-ventilated place. Keep away from Bromine Trifluoride and Lithium.

8. EXPOSURE CONTROL

Respiratory Protection	None required if good ventilation is maintained. Otherwise wear MSHA/NIOSH approved respirator suitable for vapor or mist concentrations encountered.
Eye Protection	Direct contact with product may result in eye irritation.
Skin Protection	Prolonged and repeated contact with product may cause skin irritation.
Ingestion	Do not eat, drink, or smoke during work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder
Physical State	Solid
Odor	Not Available
Odor Threshold	Not Available
pH	Not Available
Boiling Point	Not Available
Evaporation Rate	Not Available
Vapor Density	Not Available
Vapor Pressure	Not Available
Relative Density	Not Available
Auto-Ignition Temperature	Not Available
Water Solubility	Dilutable
Flammability	Not Available
Flash Point	Not Available
Viscosity	Not Available
Oxidizing Properties	Not Available
Explosive Properties	Not Available
Additional Parameters	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions

Conditions to avoid	Protect from moisture . Light Sensitive.
Incompatibility Materials to Avoid	Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products	Not Available
Hazardous Polymerization	Will not occur
Possibility of hazardous reactions	Reacts Violently with Bromine Trifluoride and Lithium.

11. TOXICOLOGY MEASURES

Acute Toxicity

The toxicological risks are minor due to the low concentration of hazardous ingredients. The following toxicological information is for the hazardous ingredient in pure form.

LD50 Oral	Oral: Acutely Toxic SPECIES: Rat ENDPOINT: LD50 VALUE: 3000 mg/kg REFERENCE SOURCE:(1971), [Toxicology and Applied Pharmacology. (Academic Press, Inc., 1 E. First St., Duluth,MN 55802) V.1- 1959- (20,57,1971)] [RTECS TOMES]
LD50 Dermal	Not Available
LC50 Inhalation	Not Available

Chronic Toxicity

Carcinogenicity	There are no known carcinogenic chemicals in this product.
Irritation	Irritating to the Eye: SPECIES: Rabbit RESULT: Moderately irritating. REFERENCE SOURCE: Solvay S.A. Bruxelles (1980), Toxicology and Applied Pharmacology, 55, p. 501 [iuclid 2000]
Corrosivity	Not Available
Sensitization	Not Available
Neurological Effects	Not Available
Mutagenic Effects	Not Available
Reproductive Effects	Not Available
Developmental Effects	Not Available
Target Organ Effects	May be harmful by Inhalation, Ingestion, Eye Exposure or Skin Absorption
Other adverse effects	Not Available

12. ECOLOGICAL MEASURES

Ecotoxicity	Not Available
Persistence/Degradability	Not Available
Mobility in Environmental Media	Not Available

Bioaccumulation/ Accumulation Not Available

13. DISPOSAL MEASURES

Waste Disposal Method: Observe all Federal, State and Local laws concerning health and pollution.

Contaminated Packaging: Avoid contact with skin and clothing. Place contaminated packaging in a break proof outer vessel and dispose on in compliance with national and local regulations.

US EPA Waste Number: Not Available

14. TRANSPORTATION MEASURES

DOT: Not Regulated

IATA: Not Regulated

ADR (road)/ RID (rail): Not Regulated

IMDG (sea): Not Regulated

General Transport Regulations Not Available

15. REGULATORY MEASURES

This product is a mixture that may contain one or more hazardous chemicals. The hazardous ingredients listed are only those as required by 29 CFR 1910.1200 (OSHA HCS).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains no chemical or chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (See 40 CFR 61)

Not Listed

State Regulations

California Proposition 65:

This product contains the following Proposition 65 chemicals: Not Listed

State Right to Know Act

Chemical Name	**Sodium Chloride**
Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
New York	Not Listed
Rhode Island	Not Listed

International Inventories

Chemical Name	**Sodium Chloride**

TSCA	Listed
DSL	Listed
NDSL	Not Listed
EINECS	Listed
CHINA	Listed
KECL	Listed
JAPAN:	Listed
AICS	Listed

EU Regulations

Annex I Index#	Not Available
Classification	EC# : 231-598-3 CAS# : 7647-14-5 Substance Name : sodium chloride Molecular Formula : ClNa Not Classified
Risk Phrases	Not Available
Safety Phrases	Not Available
Symbols and Indications of Danger	Not Available
Specific Concentration Limits	Not Available
Export and Import	This substance is not listed in the Annex I of Regulation (EC) No 689/2008.
European Priority List	This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.).

16. OTHER INFORMATION

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. KPL shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes. This material is sold for research purposes and is intended as laboratory reagents only. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals.

Revision Date: 7/5/2014