

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Premium Liquid Urine Controls (Abnormal) **MFR** #: **163-89228**, **163-89123**, **163-89119**, **163-89116**

DISTRIBUTED BY: McKesson Medical-Surgical Inc.

9954 Mayland Drive, Suite 4000

Richmond, VA 23233

INFORMATION LINE: 1-800-777-4908 Monday – Friday 8:00 a.m. – 6:00 p.m. EST

EMERGENCY PHONE: 1-800-451-8346 (3E Company) Day or Night

SECTION 2: HAZARDOUS INGREDIENTS

2.1. Classification of the Substance or Mixture GHS-US Classification

Resp. Sens. 1 H334

Skin Sens. 1 H317

Full text of hazard classes and H-statements: see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



GHS08

Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H317 - May cause an allergic skin reaction.

H334 - May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Precautionary Statements (GHS-US): P261 - Avoid breathing vapors, mist, or spray.

P272 - Contaminated work clothing must not be allowed out of the

workplace.

P280 - Wear protective gloves, protective clothing, and eye protection. P284 - [In case of inadequate ventilation] wear respiratory protection.

P302+P352 - If on skin: Wash with plenty of water.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a

position comfortable for breathing.

P321 - Specific treatment (see section 4 on this SDS).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P342+P311 - If experiencing respiratory symptoms: Call a poison center or

doctor.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container in accordance with local, regional,

national, and international regulations.

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2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	91.055422	Not classified
1-Piperazineethanesulfonic acid, 4-(2-hydroxyethyl)-, monosodium salt	(CAS No) 75277-39-3	2.38	Not classified
Urine, Human	(CAS No) Not applicable	0.99399	Not classified
Sodium chloride	(CAS No) 7647-14-5	0.9	Not classified
Potassium chloride	(CAS No) 7447-40-7	0.9	Not classified
Glucose	(CAS No) 50-99-7	0.6	Comb. Dust
Albumins, blood serum	(CAS No) 9048-46-8	0.55	Comb. Dust
Methyl acetoacetate, monosodium salt	(CAS No) 34284-28-1	0.2	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl-	(CAS No) 60-27-5	0.2	Not classified
Disodium 6,6'-dihydroxy-3,3'-(4,5,6,7-tetrabromo-1,3-dihydro-3-oxoisobenzofuran-1-ylidene)dibenzenesulphonate	(CAS No) 123359-42-2	0.165	Resp. Sens. 1, H334 Skin Sens. 1, H317
Hydrochloric acid*	(CAS No) 7647-01-0	< 0.12587	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401
Sodium hydroxide*	(CAS No) 1310-73-2	< 0.113	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
Esterase, carboxyl	(CAS No) 9016-18-6	0.071	Resp. Sens. 1, H334
Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis[5-methyl-2-(1-methylethyl)-, S,S-dioxide, monosodium salt	(CAS No) 62625-21-2	0.022	Not classified
Monopotassium carbonate	(CAS No) 298-14-6	0.008	Not classified
Sodium nitrite	(CAS No) 7632-00-0	0.0075	Ox. Sol. 2, H272 Acute Tox. 3 (Oral), H301 Eye Irrit. 2A, H319 Aquatic Acute 1, H400

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Magnesium nitrate	(CAS No) 10377-60-3	< 0.0060126	Ox. Sol. 3, H272
1H-Pyrrole	(CAS No) 109-97-7	0.005	Flam. Liq. 3, H226 Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318
1-Naphthalenesulfonic acid, 8-(phenylamino)-, monoammonium salt	(CAS No) 28836-03-5	0.005	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
3(2H)-Isothiazolone, 5-chloro-2-methyl-	(CAS No) 26172-55-4	< 0.0030063	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400
3(2H)-Isothiazolone, 2-methyl-	(CAS No) 2682-20-4	< 0.0030063	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400
N-(1-Naphthyl)ethylenediamine dihydrochloride	(CAS No) 1465-25-4	0.003	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Sodium phosphate dibasic	(CAS No) 7558-79-4	0.003	Not classified
Phosphoric acid, potassium salt (1:1)	(CAS No) 7778-77-0	0.002	Not classified
Potassium ferricyanide	(CAS No) 13746-66-2	0.0016	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Hemoglobins	(CAS No) 9008-02-0	0.0015	Comb. Dust
Ethanedioic acid, diammonium salt, monohydrate	(CAS No) 6009-70-7	0.00072	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318

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Potassium cyanide	(CAS No) 151-50-8	0.0004	Met. Corr. 1, H290 Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation:gas), H330 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Gentamicin	(CAS No) 1403-66-3	0.00016	Resp. Sens. 1A, H334 Skin Sens. 1A, H317 Repr. 1B, H360
Calcium chloride	(CAS No) 10043-52-4	0.00013	Eye Irrit. 2A, H319
Calcium hydroxide phosphate (Ca5(OH)(PO4)3)	(CAS No) 12167-74-7	0.000015	Not classified

Full text of H-phrases: 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: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitization. **Symptoms/Injuries After Inhalation:** Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction.

Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction. Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes. Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None known.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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^{*} These components are added to adjust pH as necessary.



5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Remove containers from fire area if this can be done without risk. Do not breathe fumes from fires or vapors from decomposition.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Thermal decomposition generates: Carbon oxides (CO, CO₂). Nitrogen oxides. Sulfur oxides. Sodium oxides. Metal oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Ventilate area. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING & STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, and spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash contaminated clothing before reuse.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Keep only in original container. Store in a dry, cool and well-ventilated place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. **Incompatible Products:** Strong acids, strong bases, strong oxidizers. Water reactive materials. Alkalis. Metals.

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Storage Temperature: 2 - 8 °C (35.6 to 46.4°F)

7.3. Specific End Use(s): No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Potassium cyanide (151-50-8)		
USA ACGIH	ACGIH Ceiling (mg/m³)	5 mg/m³
USA ACGIH	ACGIH chemical category	Skin - potential significant contribution to overall exposure by the
		cutaneous route
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	5 mg/m³
USA NIOSH	NIOSH REL (ceiling) (ppm)	4.7 ppm
USA IDLH	US IDLH (mg/m³)	25 mg/m³

Hydrochloric acid (7647-01-0)		
USA ACGIH	ACGIH Ceiling (ppm)	2 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	7 mg/m³
USA NIOSH	NIOSH REL (ceiling) (ppm)	5 ppm
USA IDLH	US IDLH (ppm)	50 ppm
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	7 mg/m³
USA OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm

Sodium hydroxide (1310-73-2)		
USA ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	2 mg/m³
USA IDLH	US IDLH (mg/m³)	10 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m³

8.2. Exposure Controls Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Local exhaust and general ventilation must be adequate to meet exposure standards. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.









Materials for Protective Clothing Hand Protection Eye Protection

- : Chemically resistant materials and fabrics.
- : Wear protective gloves.
- : Chemical safety goggles.

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Skin and Body Protection: Wear suitable protective clothing. In laboratory, medical or industrial settings,

impervious disposable gloves and protective clothing are recommended if

skin contact is possible.

Respiratory Protection : If exposure limits are exceeded or irritation is experienced, approved

respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear

approved respiratory protection.

Environmental Exposure Controls

Other Information

: Avoid release to the environment.

: When using, do not eat, drink or smoke.

: No data available

SECTION 9: PHYSICAL/CHEMICAL CHARACTERISTICS

9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid

Appearance : Amber, red

Odor : No data available

Odor Threshold : No data available

pH : 7.5-8

Evaporation Rate : No data available

Melting Point : No data available

Freezing Point : No data available

Boiling Point : $\approx 100 \,^{\circ}\text{C} \, (\approx 212 \,^{\circ}\text{F})$

Flash Point : No data available

Decomposition Temperature : No data available

Flammability (solid, gas) : No data available

Vapor Pressure : No data available

Relative Vapor Density at 20°C : No data available

Relative Density : No data available

Solubility : Soluble in water.

Partition Coefficient: N-Octanol/Water : No data available

Viscosity : No data available

9.2. Other Information - No additional information available

SECTION 10: STABILITY AND REACTIVITY

Auto-ignition Temperature

- **10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.
- 10.5. Incompatible Materials: Strong acids, strong bases, strong oxidizers. Water reactive materials. Alkalis. Metals.

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10.6. Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

Acute Toxicity: Not classified	
Sodium chloride (7647-14-5)	
LD50 Oral Rat	3 g/kg
LC50 Inhalation Rat	> 42 g/m³ (Exposure time: 1 h)
ATE (Oral)	3,000.00 mg/kg body weight
Potassium chloride (7447-40-7)	
LD50 Oral Rat	2600 mg/kg
Glucose (50-99-7)	
LD50 Oral Rat	25800 mg/kg
[
Potassium cyanide (151-50-8)	
LD50 Oral Rat	7.49 mg/kg
LD50 Dermal Rabbit	22.3 mg/kg
LC50 Inhalation Rat	0.16 mg/l (Exposure time: 1 h)
LC50 Inhalation Rat	63 (52 - 79) ppm/1h
ATE (Oral)	0.50 mg/kg body weight
ATE (Gases)	31.50 ppmV/4h
Sodium nitrite (7632-00-0)	
LD50 Oral Rat	85 mg/kg
LC50 Inhalation Rat	5.5 mg/l/4h
411 Parried (400 07 7)	
1H-Pyrrole (109-97-7)	100.00 // 1 / 1
ATE (Oral)	100.00 mg/kg body weight
ATE (Dust/Mist)	1.50 mg/l/4h
Magnesium nitrate (10377-60-3)	
iviagnesium mitrate (10377-00-3)	

LD50 Oral Rat	5440 mg/kg
3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)	
LD50 Oral Rat	481 mg/kg
LC50 Inhalation Rat	1.23 mg/l/4h
ATE (Oral)	100.00 mg/kg body weight
ATE (Dermal)	300.00 mg/kg body weight
3(2H)-Isothiazolone, 2-methyl- (2682-20-4)	
ATE (Oral)	100.00 mg/kg body weight
ATE (Dermal)	300.00 mg/kg body weight
ATE (Dust/Mist)	0.50 mg/l/4h
Hydrochloric acid (7647-01-0)	
LD50 Dermal Rabbit	> 5010 mg/kg
Gentamicin (1403-66-3)	
LD50 Oral Rat	6600 mg/kg
Sodium phosphate dibasic (7558-79-4)	
LD50 Oral Rat	> 2000 mg/kg

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LD50 Dermal Rat	> 2000 mg/kg
Calcium chloride (10043-52-4)	
LD50 Oral Rat	2301 (1455 - 2781) mg/kg
LD50 Dermal Rabbit	> 5000 mg/kg
Ethanedioic acid, diammonium salt, monohydrate	e (6009-70-7)
ATE (Oral)	500.00 mg/kg body weight
ATE (Dermal)	1,100.00 mg/kg body weight

Skin Corrosion/Irritation: Not classified

pH: 7.5 - 8

Serious Eye Damage/Irritation: Not classified

pH: 7.5 - 8

Respiratory or Skin Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an

allergic skin reaction.

Germ Cell Mutagenicity: Not classified **Carcinogenicity:** Not classified

Hydrochloric acid (7647-01-0)	
IARC group	3

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Exposure may produce cough, mucous secretions, shortness of breath, chest

tightness or other symptoms indicative of an allergic/sensitization reaction. Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction. Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes. Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

Chronic Symptoms: None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Not classified.

Sodium chloride (7647-14-5)	
LC50 Fish 1	5560 (5560 - 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus
	[flow-through])
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 2	340.7 (340.7 - 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna
	[Static])
Potassium chloride (7447-40-7)	
LC50 Fish 1	1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	825 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	750 (750 - 1020) mg/l (Exposure time: 96 h - Species: Pimephales promelas
	[static])
EC50 Daphnia 2	880 mg/l (Exposure time: 24 h - Species: Daphnia magna)
Potassium cyanide (151-50-8)	
LC50 Fish 1	0.04 - 0.046 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-
	through])
EC50 Daphnia 1	0.113 mg/l
LC50 Fish 2	0.044 - 0.084 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss
	[static])

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Sodium nitrite (7632-00-0)	
LC50 Fish 1	0.19 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
LC50 Fish 2	0.092 - 0.13 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
1H-Pyrrole (109-97-7)	
LC50 Fish 1	197 - 224 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
3(2H)-Isothiazolone, 5-chloro-2-methyl- (2	26172-55-4)
LC50 Fish 1	1.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
EC50 Daphnia 1	4.71 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Daphnia 2	0.12 (0.12 - 0.3) mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through])
Hydrochloric acid (7647-01-0)	
LC50 Fish 1	7.45 mg/l (Species: Oncorhynchus mykiss - Exposure time: 96h)
Sodium hydroxide (1310-73-2)	
LC50 Fish 1	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	40 mg/l
Calcium chloride (10043-52-4)	
LC50 Fish 1	10650 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	2400 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and Degradability

Premium Liquid Urine Controls (Abnormal)	
Persistence and Degradability Not established.	

12.3. Bioaccumulative Potential

210. Diodeounia.id.i.o. Colonia.		
Premium Liquid Urine Controls (Abnormal)		
Bioaccumulative Potential	Not established.	
Sodium chloride (7647-14-5)		
BCF Fish 1	(no bioaccumulation)	
Sodium nitrite (7632-00-0)		
Log Pow	og Pow -3.7 (at 25 °C)	
1H-Pyrrole (109-97-7)		
Log Pow 0.75		
3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)		
Log Pow -0.71 - 0.75 (at 20 °C)		
Calcium chloride (10043-52-4)		
BCF Fish 1	(no bioaccumulation)	

12.4. Mobility in Soil: No additional information available.

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

Ecology - Waste Materials: Avoid release to the environment.

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SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT Not regulated for transport
 14.2. In Accordance with IMDG Not regulated for transport
 14.3. In Accordance with IATA Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Premium Liquid Urine Controls (Abnormal)			
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard			
1-Piperazineethanesulfonic acid, 4-(2-hydroxyethyl)-, monosodium salt (75277-39-3)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
EPA TSCA Regulatory Flag P - P - indicates a commenced PMN substance			
Sodium chloride (7647-14-5)			
Listed on the United States TSCA (Toxic Substances Contr	rol Act) inventory		
Potassium chloride (7447-40-7)			
Listed on the United States TSCA (Toxic Substances Contr	ol Act) inventory		
4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl- (60-2	27-5)		
Listed on the United States TSCA (Toxic Substances Contr	ol Act) inventory		
Glucose (50-99-7)			
Listed on the United States TSCA (Toxic Substances Contr	rol Act) inventory		
Hemoglobins (9008-02-0)			
Listed on the United States TSCA (Toxic Substances Contr	ol Act) inventory		
Water (7732-18-5)			
Listed on the United States TSCA (Toxic Substances Contr	ol Act) inventory		
Monopotassium carbonate (298-14-6)			
Listed on the United States TSCA (Toxic Substances Contr	rol Act) inventory		
Potassium ferricyanide (13746-66-2)			
Listed on the United States TSCA (Toxic Substances Contr	ol Act) inventory		
Potassium cyanide (151-50-8)			
Listed on the United States TSCA (Toxic Substances Contr	ol Act) inventory		
Listed on the United States SARA Section 302			
CERCLA RQ	10 lb		
SARA Section 302 Threshold Planning Quantity (TPQ)	100 lb (This material is a reactive solid. The TPQ does not		
	default to 10000 pounds for non-powder, non-molten, non-		
solution form)			
Esterase, carboxyl (9016-18-6)	and A add the company		
,	Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of		
	the TSCA Inventory Data Base Production and Site Reports (40		
CFR 710(C))			
Sodium nitrite (7632-00-0)	1 11		
Listed on the United States TSCA (Toxic Substances Contr	rol Act) inventory		
Subject to reporting requirements of United States SARA			
CERCLA RQ	100 lb		
SARA Section 313 - Emission Reporting	1.0 %		

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Albumins, blood serum (9048-46-8)	
Listed on the United States TSCA (Toxic Substances Cont	rol Act) inventory
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))
1H-Pyrrole (109-97-7)	
Listed on the United States TSCA (Toxic Substances Cont	rol Act) inventory
	yl-2-(1-methylethyl)-, S, S-dioxide, monosodium salt (62625-21-
2)	,
Listed on the United States TSCA (Toxic Substances Cont	rol Act) inventory
1-Naphthalenesulfonic acid, 8-(phenylamino)-, monoan	nmonium salt (28836-03-5)
Listed on the United States TSCA (Toxic Substances Cont	
Magnesium nitrate (10377-60-3)	,
Listed on the United States TSCA (Toxic Substances Cont.	rol Act) inventory
3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)	,
Listed on the United States TSCA (Toxic Substances Cont.	rol Act) inventory
EPA TSCA Regulatory Flag	P - P - indicates a commenced PMN substance
, is	SP
3(2H)-Isothiazolone, 2-methyl- (2682-20-4)	
Listed on the United States TSCA (Toxic Substances Cont	rol Act) inventory
EPA TSCA Regulatory Flag	P - P - indicates a commenced PMN substance
<i>,</i> , ,	SP
Hydrochloric acid (7647-01-0)	
Listed on the United States TSCA (Toxic Substances Cont	rol Act) inventory
Listed on the United States SARA Section 302	
Subject to reporting requirements of United States SARA	Section 313
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4
	test rule under TSCA
CERCLA RQ	5000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb (gas only)
SARA Section 313 - Emission Reporting	1.0 % (acid aerosols including mists, vapors, gas, fog, and other
	airborne forms of any particle size)
Sodium hydroxide (1310-73-2)	and Anthiban and an
Listed on the United States TSCA (Toxic Substances Cont	
CERCLA RQ	1000 lb
Sodium phosphate dibasic (7558-79-4)	rol Act) inventory
Listed on the United States TSCA (Toxic Substances Cont	
CERCLA RQ	5000 lb
Phosphoric acid, potassium salt (1:1) (7778-77-0)	rol Act inventory
Listed on the United States TSCA (Toxic Substances Cont	roi Act) inventory
Calcium chloride (10043-52-4)	and Anthiban and any
Listed on the United States TSCA (Toxic Substances Cont	
Ethanedioic acid, diammonium salt, monohydrate (600)	
CERCLA RQ	5000 lb listed under Ammonium oxalate
N-(1-Naphthyl)ethylenediamine dihydrochloride (1465-	•
Listed on the United States TSCA (Toxic Substances Cont	rol Act) inventory

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15.2. US State Regulations

Potassium cyanide (151-50-8)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

Sodium nitrite (7632-00-0)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

1H-Pyrrole (109-97-7)

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List

Magnesium nitrate (10377-60-3)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

Hydrochloric acid (7647-01-0)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

Sodium hydroxide (1310-73-2)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

Sodium phosphate dibasic (7558-79-4)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

Ethanedioic acid, diammonium salt, monohydrate (6009-70-7)

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

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SECTION 16: OTHER INFORMATION

Revision Date
Other Information

: 09/16/2016

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR

1910.1200

GHS Full Text Phrases:

un rext i muses.		
Acute Tox. 1 (Dermal)	Acute toxicity (dermal) Category 1	
Acute Tox. 1 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 1	
Acute Tox. 1 (Oral)	Acute toxicity (oral) Category 1	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3	
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1	
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2	
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3	
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1	
Comb. Dust	Combustible Dust	
Eye Dam. 1	Serious eye damage/eye irritation Category 1	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Flam. Liq. 3	Flammable liquids Category 3	
Met. Corr. 1	Corrosive to metals Category 1	
Ox. Sol. 2	Oxidizing solids Category 2	
Ox. Sol. 3	Oxidizing solids Category 3	
Repr. 1B	Reproductive toxicity Category 1B	
Resp. Sens. 1	Respiratory sensitisation Category 1	
Resp. Sens. 1A	Respiratory sensitisation Category 1A	
Skin Corr. 1A	Skin corrosion/irritation Category 1A	
Skin Corr. 1B	Skin corrosion/irritation Category 1B	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
Skin Sens. 1	Skin sensitization Category 1	
Skin Sens. 1A	Skin sensitization Category 1A	
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H226	Flammable liquid and vapor	
H272	May intensify fire; oxidizer	
H290	May be corrosive to metals	
H300	Fatal if swallowed	
H301	Toxic if swallowed	
H302	Harmful if swallowed	
H310	Fatal in contact with skin	
H311	Toxic in contact with skin	
H312	Harmful in contact with skin	
H314	Causes severe skin burns and eye damage	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	

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H318	Causes serious que demage	
H319	Causes serious eye damage	
H319	Causes serious eye irritation	
H330	Fatal if inhaled	
H331	Toxic if inhaled	
H332	Harmful if inhaled	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	
H335	May cause respiratory irritation	
H360	May damage fertility or the unborn child	
H372	Causes damage to organs through prolonged or repeated exposure	
H400	Very toxic to aquatic life	
H401	Toxic to aquatic life	
H402	Harmful to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	

DISCLAIMER: This information relates onto to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations contained herein are to the best of the manufacturer's knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use. Appropriate warnings and safe-handling procedures should be provided to handlers and users.

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SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Premium Liquid Urine Controls (Normal) **MFR** #: **163-89228**, **163-89123**, **163-89119**, **163-89116**

DISTRIBUTED BY: McKesson Medical-Surgical Inc.

9954 Mayland Drive, Suite 4000

Richmond, VA 23233

INFORMATION LINE: 1-800-777-4908 Monday – Friday 8:00 a.m. – 6:00 p.m. EST

EMERGENCY PHONE: 1-800-451-8346 (3E Company) Day or Night

SECTION 2: HAZARDOUS INGREDIENTS

2.1. Classification of the Substance or Mixture

GHS-US Classification

Not classified

2.2. Label Elements

GHS-US Labeling

No labeling applicable

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. May cause an allergic reaction in sensitive individuals.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	98.8676538	Not classified
Sodium chloride	(CAS No) 7647-14-5	0.3	Not classified
Potassium chloride	(CAS No) 7447-40-7	0.3	Not classified
4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl-	(CAS No) 60-27-5	0.2	Not classified
Sodium phosphate dibasic	(CAS No) 7558-79-4	0.1345	Not classified

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Sodium hydroxide*	(CAS No) 1310-73-2	< 0.1	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
Hydrochloric acid*	(CAS No) 7647-01-0	< 0.1	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401
Sodium azide	(CAS No) 26628-22-8	0.095	Acute Tox. 2 (Oral), H300 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Phosphoric acid, monosodium salt	(CAS No) 7558-80-7	0.0064	Not classified
Magnesium nitrate	(CAS No) 10377-60-3	< 0.00000084	Ox. Sol. 3, H272
3(2H)-Isothiazolone, 5-chloro-2-methyl-	(CAS No) 26172-55-4	< 0.00000042	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation:dust,mist) , H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400
3(2H)-Isothiazolone, 2-methyl-	(CAS No) 2682-20-4	< 0.00000042	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist) , H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400

Full text of H-phrases: see section 16

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^{*} These components are added to adjust pH as necessary.



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: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain 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. May cause an allergic reaction in sensitive individuals.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation. May cause exacerbation of asthma if mists are inhaled.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation. May cause an allergic reaction in sensitive individuals.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes. **Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

Chronic Symptoms: None known.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE & EXPLOSION HAZARD DATA

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Do not breathe fumes from fires or vapors from decomposition.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Thermal decomposition generates: Carbon oxides (CO, CO₂). Nitrogen oxides. Sulfur oxides.

Sodium oxides. Potassium oxides. Metal oxides. Phosphorus oxides.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Ventilate area. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING & STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, and spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash contaminated clothing before reuse.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep only in original container. Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. **Incompatible Products:** Strong acids, strong bases, strong oxidizers. Water reactive materials. Alkalis. Metals.

7.3. Specific End Use(s): For in vitro diagnostic use only.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Sodium azide	Sodium azide (26628-22-8)		
USA ACGIH	ACGIH Ceiling (mg/m³) 0.29 mg/m³		
USA ACGIH	ACGIH Ceiling (ppm)	0.11 ppm (vapor)	
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen	
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	0.3 mg/m³	
USA NIOSH	NIOSH REL (ceiling) (ppm)	0.1 ppm	

Sodium hydroxide (1310-73-2)		
USA ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m³
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	2 mg/m³
USA IDLH	US IDLH (mg/m³)	10 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m³

Hydrochloric acid (7647-01-0)		
USA ACGIH	ACGIH Ceiling (ppm) 2 ppm	
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA NIOSH	NIOSH REL (ceiling) (mg/m³)	7 mg/m³
USA NIOSH	NIOSH REL (ceiling) (ppm)	5 ppm
USA IDLH	US IDLH (ppm)	50 ppm
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	7 mg/m³
USA OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm

8.2. Exposure Controls

Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Local exhaust and general ventilation must be adequate to meet exposure standards. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Not generally required. The use of personal protective equipment may be necessary as conditions warrant. Gloves. Protective clothing. Protective goggles.





Materials for Protective Clothing Hand Protection Eye Protection Skin and Body Protection

- : Chemically resistant materials and fabrics.
- : Wear protective gloves.
- : Chemical safety goggles.
- : Wear suitable protective clothing. In laboratory, medical or industrial settings, impervious disposable gloves and protective clothing are recommended if skin contact is possible.

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Respiratory Protection

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Environmental Exposure ControlsOther Information: Avoid release to the environment.: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL/CHEMICAL CHARACTERISTICS

Physical State : Liquid **Appearance** : Green, yellow Odor : No data available **Odor Threshold** : No data available рΗ : 7.5 - 8 **Evaporation Rate** : No data available **Melting Point** : No data available **Freezing Point** : No data available **Boiling Point** : ≈ 100 °C (≈ 212 °F) Flash Point : No data available : No data available **Auto-ignition Temperature**

Decomposition Temperature: No data availableFlammability (solid, gas): No data availableVapor Pressure: No data availableRelative Vapor Density at 20°C: No data availableRelative Density: No data availableSolubility: Soluble in waterPartition Coefficient: N-Octanol/Water: No data available

9.2. Other Information: No additional information available

SECTION 10: STABILITY AND REACTIVITY

Viscosity

- **10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- **10.2.** Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
- **10.3.** Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.
- **10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Water reactive materials. Alkalis. Metals.

: No data available

10.6. Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity: Not classified

Sodium phosphate dibasic (7558-79-4)	
LD50 Oral Rat > 2000 mg/kg	
LD50 Dermal Rat	> 2000 mg/kg

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Phosphoric acid, monosodium salt (7558-80-7)	
LD50 Oral Rat	8290 mg/kg
LD50 Dermal Rabbit	> 7940 mg/kg

Sodium azide (26628-22-8)	
LD50 Oral Rat	27 mg/kg

Sodium chloride (7647-14-5)	
LD50 Oral Rat	3 g/kg
LC50 Inhalation Rat	> 42 g/m³ (Exposure time: 1 h)
ATE (Oral)	3,000.00 mg/kg body weight

Potassium chloride (7447-40-7)	
LD50 Oral Rat	2600 mg/kg

Hydrochloric acid (7647-01-0)	
LD50 Dermal Rabbit	> 5010 mg/kg

Magnesium nitrate (10377-60-3)	
LD50 Oral Rat	5440 mg/kg

3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)	
LD50 Oral Rat	481 mg/kg
LC50 Inhalation Rat	1.23 mg/l/4h
ATE (Oral)	100.00 mg/kg body weight
ATE (Dermal)	300.00 mg/kg body weight

3(2H)-Isothiazolone, 2-methyl- (2682-20-4)	
ATE (Oral)	100.00 mg/kg body weight
ATE (Dermal)	300.00 mg/kg body weight
ATE (Dust/Mist)	0.50 mg/l/4h

Skin Corrosion/Irritation: Not classified

pH: 7.5 - 8

Serious Eye Damage/Irritation: Not classified

pH: 7.5 - 8

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Hydrochloric acid (7647-01-0)	
IARC group	3

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation. May cause exacerbation of asthma if mists

are inhaled.

Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation. May cause an allergic reaction in

sensitive individuals.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes. **Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

Chronic Symptoms: None known.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Not classified.

Sodium azide (26628-22-8)		
LC50 Fish 1	0.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	
LC50 Fish 2	0.7 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)	
ErC50 (Algae)	0.348 mg/l	
Sodium chloride (7647-14-5)		
LC50 Fish 1	5560 (5560 - 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])	
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 Fish 2	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
EC50 Daphnia 2	340.7 (340.7 - 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
Potassium chloride (7447-40-7)		
LC50 Fish 1	1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])	
EC50 Daphnia 1	825 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 Fish 2	750 (750 - 1020) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 2	880 mg/l (Exposure time: 24 h - Species: Daphnia magna)	
Sodium hydroxide (1310-73-2)		
LC50 Fish 1	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])	
EC50 Daphnia 1	40 mg/l	
Hydrochloric acid (7647-01-0)		
LC50 Fish 1	7.45 mg/l (Species: Oncorhynchus mykiss - Exposure time: 96h)	
3(2H)-Isothiazolone, 5-chloro-2-methyl- (2	3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)	
LC50 Fish 1	1.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])	
EC50 Daphnia 1	4.71 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
EC50 Daphnia 2	0.12 (0.12 - 0.3) mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through])	

12.2. Persistence and Degradability

Premium Liquid Urine Controls (Normal)	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

Premium Liquid Urine Controls (Normal)	
Bioaccumulative Potential	Not established.
Sodium chloride (7647-14-5)	
BCF Fish 1	(no bioaccumulation)
3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)	
Log Pow	-0.71 - 0.75 (at 20 °C)

12.4. Mobility in Soil: No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Prevent runoff from entering drains, sewers or waterways.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT Not regulated for transport
 14.2. In Accordance with IMDG Not regulated for transport
 14.3. In Accordance with IATA Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Sodium phosphate dibasic (7558-79-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
CERCLA RQ	5000 lb	
	3000 15	
Phosphoric acid, monosodium salt (7558-80-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Sodium azide (26628-22-8)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Listed on the United States SARA Section 302		
Subject to reporting requirements of United States SARA Section 313		
CERCLA RQ	1000 lb	
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb (This material is a reactive solid. The TPQ does not	
	default to 10000 pounds for non-powder, non-molten, non-	
	solution form)	
SARA Section 313 - Emission Reporting	1.0 %	
Sodium chloride (7647-14-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Potassium chloride (7447-40-7)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl- (60-2	7-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Sodium hydroxide (1310-73-2)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
CERCLA RQ	1000 lb	
Hydrochloric acid (7647-01-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Listed on the United States SARA Section 302		
Subject to reporting requirements of United States SARA Section 313		
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4	
	test rule under TSCA	
CERCLA RQ	5000 lb	
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb (gas only)	

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SARA Section 313 - Emission Reporting	1.0 % (acid aerosols including mists, vapors, gas, fog, and other	
	airborne forms of any particle size)	
Water (7732-18-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
Magnesium nitrate (10377-60-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
3(2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	P - P - indicates a commenced PMN substance	
	SP	
3(2H)-Isothiazolone, 2-methyl- (2682-20-4)		
Listed on the United States TSCA (Toxic Substances Contr	ol Act) inventory	
EPA TSCA Regulatory Flag	P - P - indicates a commenced PMN substance	
	SP	

15.2. US State Regulations

Sodium phosphate dibasic (7558-79-4)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

Sodium azide (26628-22-8)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

Sodium hydroxide (1310-73-2)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

Hydrochloric acid (7647-01-0)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

Magnesium nitrate (10377-60-3)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

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SECTION 16: OTHER INFORMATION

Revision Date
Other Information

: 09/16/2016

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard

29 CFR 1910.1200

GHS Full Text Phrases:

Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Met. Corr. 1	Corrosive to metals Category 1
Ox. Sol. 3	Oxidizing solids Category 3
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Sens. 1	Skin sensitization Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H272	May intensify fire; oxidizer
H290	May be corrosive to metals
H300	Fatal if swallowed
H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects

DISCLAIMER: This information relates onto to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations contained herein are to the best of the manufacturer's knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use. Appropriate warnings and safe-handling procedures should be provided to handlers and users.

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