

**1. Product and Company Identification** 

	rieddol and company identification	
Product Name	IMS-II Sanitizer (4211)	
CAS #	Mixture	
Product use	Disinfectant / Cleaner / Sanitizer / Deodorizer	
Manufacturer	Nu-Calgon	
	2008 Altom Court St. Louis, MO 63146 US	
	Phone: 314-469-7000 / 800-554-5499	
	Emergency Phone: 1-800-424-9300 (CHEMTREC)	
	2. Hazards Identification	
Emergency overview	Hazards to humans and domestic animals. DANGER	
	KEEP OUT OF REACH OF CHILDREN. CORROSIVE.	
	Do not get in eyes, on skin or on clothing.	
Potential short term health effects		
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.	
Eyes	Causes irreversible eye damage.	
Skin	Causes chemical burns.	
Inhalation	May cause respiratory tract irritation or chemical burns.	
Ingestion	Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.	
Target organs	Skin. Eyes.	
Chronic effects	Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.	
Signs and symptoms	The product causes burns of eyes, skin and mucous membranes.	
OSHA Regulatory Status	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.	
Potential environmental effects	Components of this product have been identified as having potential environmental concerns.	

### 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Alkyl Phenol Ethoxylate	9016-45-9	2.5 - 10
Tetrapotassium pyrophosphate	7320-34-5	2.5 - 10
Sodium metasilicate	6834-92-0	1 - 2.5
Tetrasodium ethylenediamine tetraacetate	64-02-8	0.1 - 1

# 4. First Aid Measures

First aid procedures	
Eye contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Notes to physician	If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

**General advice** 

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

#### 5. Fire Fighting Measures

Flammable properties	Not flammable by OSHA criteria.	
Extinguishing media		
Suitable extinguishing media	Water spray. Fog. Carbon dioxide. Dry chemical.	
Unsuitable extinguishing media	Not available	
Protection of firefighters		
Specific hazards arising from the chemical	Not available	
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.	
Hazardous combustion products	May include and are not limited to: Oxides of nitrogen. Oxides of carbon. Oxides of sulphur. Oxides of phosphorus.	
Explosion data		
Sensitivity to mechanical impact	Not available	
Sensitivity to static discharge	Not available	
	6. Accidental Release Measures	

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.
	7. Handling and Storage
Handling	Do not get in eyes, on skin or on clothing. Avoid breathing vapors or mists of this product.

Keep container tightly closed. Use only with adequate ventilation. Wash thoroughly after handling.

Use good industrial hygiene practices in handling this material.

Store in a dry place no lower in temperature than 50°F or higher than 120°F. Do not

contaminate water, food or feed by storage or disposal. Keep out of the reach of children.

Storage

### 8. Exposure Controls / Personal Protection

Exposure limits		
Ingredient(s)	Exposure Limits	
Alkyl Phenol Ethoxylate	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Sodium metasilicate	ACGIH-TLV	
	TWA: 10 mg/m3	
	OSHA-PEL	
	Not established	
Tetrapotassium pyrophosphate	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Tetrasodium ethylenediamine tetraacet	ate ACGIH-TLV	
	Not established	
	OSHA-PEL	
	TWA: 15 mg/m3	
Engineering controls	General ventilation normally adequate.	
Personal protective equipment		
Eye / face protection	Use a face shield if splashing is possible. Wear chemical goggles.	
Hand protection	Rubber gloves. Confirm with a reputable supplier first.	
Skin and body protection	As required by employer code.	
Respiratory protection	Avoid breathing mists or vapors. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.	
General hygiene considerations	Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.	

# 9. Physical and Chemical Properties

Appearance	Clear.
Color	Colorless to Slightly Amber
Form	Liquid
Odor	Characteristic
Odor threshold	Not available
Physical state	Liquid
рН	13.1 (Concentrate)
Freezing point	32.00 °F (0 °C)
Boiling point	212.00 °F (100 °C)
Pour point	Not available
Evaporation rate	Same as water
Flash point	None to boiling
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.1 ± 0.005
Octanol/water coefficient	Not available

Solubility (H2O)	Complete
VOC (Weight %)	Not available
Viscosity	Not available
Percent volatile	87

# 10. Stability and Reactivity

Reactivity	Reacts violently with acids. This product may react with oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Hazardous vapours may be produced when mixed with chlorinated detergents or sanitizers. Do not mix with other chemicals.
Incompatible materials	Acids. Oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of nitrogen. Oxides of carbon. Oxides of sulphur. Oxides of phosphorus.

#### **11. Toxicological Information**

Component analysis - LC50		
Ingredient(s)	LC50	
Alkyl Phenol Ethoxylate	Not available	
Sodium metasilicate	Not available	
Tetrapotassium pyrophosphate	Not available	
Tetrasodium ethylenediamine tetraacetate	Not available	
Component analysis - Oral LD50		
Ingredient(s)	LD50	
Alkyl Phenol Ethoxylate	2490 mg/kg rat	
Sodium metasilicate	1153 mg/kg rat	
Tetrapotassium pyrophosphate	4000 mg/kg rat	
Tetrasodium ethylenediamine tetraacetate	2000 mg/kg rat	
Effects of acute exposure		

Eye	Causes irreversible eye damage.	
Skin	Causes chemical burns.	
Inhalation	May cause respiratory tract irritation or chemical burns.	
Ingestion	Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.	
Sensitization	Non-hazardous by OSHA criteria.	
Chronic effects	Non-hazardous by OSHA criteria.	
Carcinogenicity	Non-hazardous by OSHA criteria.	
Mutagenicity	Non-hazardous by OSHA criteria.	
Reproductive effects	Non-hazardous by OSHA criteria.	
Teratogenicity	Non-hazardous by OSHA criteria.	
Name of Toxicologically Synergistic Products	Not available	

# **12. Ecological Information**

Ecotoxicity	Componer concerns.	nts of this product have been identified as having potential environmental
Ecotoxicity - Freshwater Algae -	Acute Toxicity D	Data
Tetrasodium ethylenediamine tetraacetate	64-02-8	72 Hr EC50 Desmodesmus subspicatus: 1.01 mg/L
Ecotoxicity - Freshwater Fish - A	Acute Toxicity Da	ta
Sodium metasilicate	6834-92-0	96 Hr LC50 Brachydanio rerio: 210 mg/L [semi-static]; 96 Hr LC50 Brachydanio rerio 210 mg/L
Tetrapotassium pyrophosphate Tetrasodium ethylenediamine tetraacetate	7320-34-5 64-02-8	96 Hr LC50 Oncorhynchus mykiss: >100 mg/L 96 Hr LC50 Lepomis macrochirus: 41 mg/L [static]; 96 Hr LC50 Pimephales promelas: 59.8 mg/L [static]
Ecotoxicity - Water Flea - Acute	Toxicity Data	
Sodium metasilicate Tetrapotassium pyrophosphate Tetrasodium ethylenediamine tetraacetate	6834-92-0 7320-34-5 64-02-8	96 Hr EC50 Daphnia magna: 216 mg/L 48 Hr EC50 water flea: >100 mg/L 24 Hr EC50 Daphnia magna: 610 mg/L
Persistence / degradability	Not availat	ble
Bioaccumulation / accumulation	Not available	
Mobility in environmental media	Not available	
Environmental effects	Not available	
Aquatic toxicity	Not available	
Partition coefficient	Not available	
Chemical fate information	Not availat	ble
	13. Di	isposal Considerations
Disposal instructions	IF EMPTY: Do not reuse this container. Place in trash or offer for recycling if available. Dispose in accordance with all applicable regulations.	
Waste from residues / unused products	Not available	
Contaminated packaging	Not available	
	14.	Transport Information

#### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

# **15. Regulatory Information**

Occupational Safety and Health Adm	inistration (OSHA)
29 CFR 1910.1200 hazardous chemical	Yes
US Federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
	EPA registration number 1839-50-65516
CERCLA (Superfund) reportable quar	ntity
None	
Superfund Amendments and Reauthor	prization Act of 1986 (SARA)
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
Section 302 extremely hazardous substance	No
Section 311 hazardous chemical	Yes
Clean Air Act (CAA)	Not available
Clean Water Act (CWA)	Not available
State regulations	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

#### Inventory status

#### Country(s) or region

United States & Puerto Rico

#### Inventory name

Yes

Toxic Substances Control Act (TSCA) Inventory

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**16. Other Information** 

LEGENE HMIS/NFF		Health / 2
Severe Serious Moderate Slight Minimal	4 3 2 1 0	Flammability 0   Physical Hazard 0   Personal Protection X
Disclaimer		Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.
Issue date		12-Dec-2014
Effective date		12-Dec-2014
Prepared by		Nu-Calgon Technical Service (314) 469-7000
Other informat	ion	For an updated MSDS, please contact the supplier/manufacturer listed on the first

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.