

SAFETY DATA SHEET

This SDS Complies With 29 CFR 1910.1200 (The Hazard Communication Standard)

Section I - Product & Company Identification

Product identifier

Product name : LIQUID MACHINE DISH DETERGENT

Product form: Liquid

Other means of identification: 1511

Relevant identified uses of the substance or mixture: Liquid machine dish detergent

Details of the supplier of the safety data sheet

Manufacturer:

Diversified Chemical Products, Inc. 4124 B NW Riverside Street, Riverside, MO 64150

Phone: 816-472-5515

Emergency telephone number

Emergency number: CHEMTREC: 1-800-424-9300

Section II – Hazards Identification

Classification

Corrosive to metals.

Skin corrosion/ irritation (Category 1A)

Serious eye damage / eye irritation (Category 1)

Acute toxicity-Oral (Category 4)

Carcinogenicity –(Category 2)

Pictogram



Signal Word

Danger

Hazard Statements

May be corrosive to metals.

Harmful if swallowed.

Causes severe skin burns and eye damage.

Suspected of causing cancer.

Precautionary Statements – Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood..

Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing fume/mist/vapors/spray.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN: Take off contaminated clothing and wash before reuse. Wash victim with plenty of soap and water. If irritation occurs get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Rinse mouth, Do not induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell

IF EXPOSED OR CONCERNED: Get medical advice/attention.

Precautionary Statements – Storage

Store in a corrosive resistant container. Store in a well ventilated place. Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section III –Composition/Information on ingredients

Mixture

Name	CAS#	Weight %
Potassium Hydroxide	1310-58-3	20-30
Aminotri (methylenephosphonic acid)	6419-19-8	1-5
Nitrilotriacetic acid	139-13-9	1-5
Sodium metasilicate	6834-92-0	1-5
Sodium Hypochlorite	102-71-6	1-5

Any concentration shown as a range is to protect confidentiality or is due to process variation.

Section IV – First Aid Measures

First Aid Measures

Inhalation: Remove to fresh air. If breathing stops, provide artificial respiration. If symptoms persist, call a physician.

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician if you feel unwell..

Skin Contact: Remove contaminated clothing, wash victim with plenty of soap and water. Get medical attention.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms

May cause skin corrosion and serious eye damage.
Suspected of causing cancer.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians: No data available. Treat symptomatically.

Section V – Fire Fighting Measures

Suitable Extinguishing Media

Water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

No data available.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

Section VI –Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment as required. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area.

Methods and Material for Containment and Cleaning Up

Methods for Containment: Prevent further leakage or spillage if safe to do so. Prevent discharge to the environment, municipal sewers.

Methods for Cleaning Up: Soak up with inert absorbent material and place in suitable, closed containers for disposal.

Section VII – Handling & Storage

Precautions for Safe Handling

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.

Section VIII – Exposure Controls/ Personal Protection

Exposure Guidelines

Chemical Name	CAS #	ACGIH TLV	OSHA PEL	NIOSH
Potassium Hydroxide	1310-58-3	2 mg/m ³ ceiling	None determined	None determined
Aminotri (methylenephosphonic acid)	6419-19-8	None determined	None determined	None determined
Nitrilotriacetic acid	139-13-9	None determined	None determined	None determined
Sodium metasilicate	6834-92-0	None determined	None determined	None determined
Sodium Hypochlorite	102-71-6	None determined	None determined	None determined

Appropriate Engineering Controls

Engineering Controls: Provide adequate ventilation, eyewash stations.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection: Wear approved safety goggles where a splash hazard exists.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

Section IX – Physical & Chemical Properties

Information on Basic Physical and Chemical Properties

Physical State	Liquid
Color	Clear
<u>Property</u>	<u>Values</u>
pH	14
Melting Point/Freezing Point	No data available
Boiling Point/Boiling Range	100 ° C(212 ° F)
Flash Point	> 100 ° C (>212 ° F)
Evaporation Rate	No data available

Flammability (Solid,Gas)	n/a-liquid
Upper Flammable Limits	No data available
Lower Flammable Limits	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Specific Gravity	1.30
Water Solubility	Soluble in Water
Solubility in Other Solvents	No data available
Partition Coefficient	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Kinematic Viscosity	No data available
Dynamic Viscosity	No data available
Explosive Properties	Not an Explosive
Oxidizing Properties	No data available
Odor	Slight chlorine odor
Odor Threshold	No data available

Section X – Stability & Reactivity

Reactivity

Mildly reactive. Reactivity with water is exothermic.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

No data available

Conditions to Avoid

No data available

Incompatible Materials

Water reactive materials, acids, metals.

Hazardous Decomposition Products

No data available

Section XI - Toxicological information

Information on Likely Routes of Exposure

Product Information

Inhalation: Avoid breathing vapors or mists.

Eye Contact: Causes serious eye damage

Skin Contact: Avoid contact with skin.

Ingestion: May be harmful if swallowed.

This product as a whole has not been tested for acute toxicity; the following is based on component data

Chemical Name	CAS #	Oral LD50	Dermal LD50	Inhalation LC50
Potassium Hydroxide	1310-58-3	No data available	No data available	No data available
Aminotri (methylenephosphonic acid)	6419-19-8	2100 mg/kg (Rat)	>6310 mg/kg (Rabbit)	No data available
Nitritotriacetic acid	139-13-9	>6,400 mg/kg (Rat)	No data available	No data available
Sodium metasilicate	6834-92-0	1152-1349 mg/kg (Rat)	No data available	No data available
Sodium Hypochlorite	102-71-6	5000 mg/kg (Rat)	10000 mg/kg (Rabbit)	10.5 mg/l 4 h (Rat)

Chemical Name	Potassium Hydroxide	Aminotri (methylenephosphonic acid)	Nitritotriacetic acid	Sodium metasilicate
Skin corrosion/irritation	Severe skin burns	Skin burns	No irritation	Corrosive
Serious eye damage/irritation	Serious eye damage	Serious eye damage	No data available	Serious eye damage
Respiratory or skin sensitization	No data available	Not classified	No data available	No data available
Mutagenicity	No evidence	No data available	No data available	negative
Carcinogenicity	No evidence	Not classified as carcinogen	IARC Group 2 B	Not classified as carcinogen
Reproductive toxicity	No evidence	Not classified	No data available	No data available
Specific target organ toxicity-Single exposure	No data available	Not classified	No data available	Respiratory irritation
Specific target organ toxicity-repeated exposure	No data available	Not classified	No data available	No data available
Aspiration hazard	No data available	Not classified	No data available	No data available

Chemical Name	Sodium Hypochlorite
Skin corrosion/irritation	Severe burns
Serious eye damage/irritation	Serious eye damage
Respiratory or skin sensitization	No data available
Mutagenicity	No data available
Carcinogenicity	Not classified as carcinogen
Reproductive toxicity	No data available
Specific target organ toxicity-Single exposure	May cause respiratory irritation
Specific target organ toxicity-repeated exposure	No data available
Aspiration hazard	Not classified.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity: This product does contain carcinogens or potential carcinogens as listed by OSHA, IARC or NTP. Nitrilotriacetic acid.

Numerical Measures of Toxicity: Not determined

Section XII - Ecological information

Ecotoxicity

There is no data available for this product as a whole.

Chemical Name	CAS #	Algae/aquatic plants	Fish	Aquatic invertebrates
Potassium Hydroxide	1310-58-3	No data available	96 HR LC50 GAMBUSIA AFFINIS 80 MG/L [STATIC]	No data available
Aminotri (methylenephosphonic acid)	6419-19-8	No data available	LC50 Rainbow trout (Oncorhynchus mykiss), <330 mg/l	No data available
Nitrilotriacetic acid	139-13-9	No data available	LC50 - Leuciscus idus melanotus - 475 mg/l - 48 h	EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h
Sodium metasilicate	6834-92-0	No data available	LC50 - Danio rerio (zebra fish) - 210 mg/l - 96 h	No data available
Sodium Hypochlorite	102-71-6	ErC50 Dunaliella primolecta 0.40 mg/l -72 h	96 h LC50 Pimephales promelas 0.08 mg/l	EC50 - Daphnia magna (Water flea) - 0.032 mg/l - 48 h

Persistence and Degradability

No data available

Bioaccumulation

No data available

Mobility

No data available

Section XIII - Disposal considerations

Waste Disposal Method

Dispose of material in accordance with all Federal, State and local regulations. Local regulations may be more stringent than Federal or State. Avoid discharge to sewers or waterways.

Section XIV - Transport information

DOT Proper Shipping Description:

Bulk or Non-Bulk: NA1760, Compounds, cleaning liquid, (Sodium metasilicate, Potassium Hydroxide), 8, PG II

Section XV - Regulatory information

SARA Title III Section 311/312 (40CFR370): Acute and chronic health hazard

SARA Title III Section 313 (40CFR372): None

RCRA Status (40CFR261.33): No reportable components.

TSCA Inventory Status: Reported/included

OSHA/NTP/IARC Carcinogen Status: Suspected (Nitrilotriacetic acid)

Canadian DSL Status: Reported/included

Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity:

This material is known to contain any chemicals currently listed as carcinogens or reproductive toxins. Nitrilotriacetic acid.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium Hydroxide	X	X	X
Aminotri (methylenephosphonic acid)	Not listed	Not listed	Not listed
Nitrilotriacetic acid	Not listed	X	Not listed
Sodium metasilicate	X	Not listed	X
Sodium Hypochlorite	X	X	X

Section XVI - Other information

HMIS ratings: Health: 3
Flammability: 0
Reactivity: 1

Indication of changes: Revision – 1

Date Sheet Prepared: 11/11/2015

Other information: Author – EHS Administrator

The information herein is presented in good faith and believed to be correct as of the date hereof. However, the manufacturer makes no representation as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purposes prior to use.

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END OF SDS