

Safety Data Sheet

Issue Date: 17-Oct-2014 Revision Date: 09-Feb-2016 Version 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name United-228 Flocculant Concentrate for Wastewater Treatment Facilities

Other means of identification

SDS # UNITED-228

Recommended use of the chemical and restrictions on use

Recommended Use Flocculant concentrate for wastewater treatment facilities.

Uses Advised Against For industrial and institutional use only.

Details of the supplier of the safety data sheet

Supplier Address

United Laboratories, Inc. 320 37th Avenue St. Charles, IL 60174 www.unitedlabsinc.com www.unitedlabsinc.ca

Emergency Telephone Number

Company Phone Number 800-323-2594 (to reorder)

Emergency Telephone (24 hr) INFOTRAC 1-800-535-5053 (North America)

1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Appearance Colorless liquid Physical State Liquid Odor Slight scent

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which, at their given concentration, are considered to be hazardous to health. However, additional component information is available in subsequent sections of this SDS.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact Flush with plenty of cool water for at least 15 minutes. If irritation persists, call a physician

or poison control center.

Skin Contact Wash with soap and water. If irritation develops, call a physician or poison center.

Inhalation Remove to fresh air. Apply CPR if needed. Call a physician if irritation persists.

Ingestion Do not induce vomiting. Call a physician.

Most important symptoms and effects

Symptoms May cause eye irritation. Prolonged or repeated contact may cause temporary skin

irritation. Large amounts may cause respiratory irritation to sensitive individuals. Swallowing large quantities (more than a few ounces) may cause upset stomach, diarrhea, nausea and

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vomiting.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO2). Dry chemical.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

None known.

Hazardous Combustion Products When strongly heated, as in a fire, this product may produce oxides of carbon, oxides of nitrogen and ammonia.

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal PrecautionsUse personal protective equipment as required.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Small spills: Flush to sewage drain. This product may cause slippery conditions, rinse

thoroughly. Large spills: Flush to sewage drain. This product may cause slippery

conditions, rinse thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep this product in a properly labeled, tightly closed container. Do not allow this product to

freeze, as the container may split or rupture. To avoid product degradation and equipment

corrosion, do not use iron, copper or aluminum containers or equipment.

Incompatible Materials Oxidizers such as bleach. Material reacts slowly with iron, copper and aluminum resulting in

metal corrosion and product degradation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Adipic acid	TWA: 5 mg/m ³	-	-
124-04-9	_		

Appropriate engineering controls

Engineering Controls Showers. Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses recommended.

Skin and Body ProtectionChemical resistant gloves recommended for prolonged exposure.

Respiratory Protection Normally not required.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid

AppearanceColorless liquidOdorSlight scentColorColorlessOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 5.5-6.5

Melting Point/Freezing Point

Boiling Point/Boiling Range

Not determined

100 °C / 212 °F

Flash Point None

Evaporation Rate 1 (Water = 1)

Flammability (Solid, Gas)
Upper Flammability Limits
Lower Flammability Limit
Vapor Pressure
Vapor Density
Liquid-Not applicable
Not determined
Not determined
Not determined
Not determined

Specific Gravity 1.025 (Water = 1)

Water Solubility Miscible in water Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

VOC Content None

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Treatment Facilities

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Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to Avoid

Incompatible Materials.

Incompatible Materials

Oxidizers such as bleach. Material reacts slowly with iron, copper and aluminum resulting in metal corrosion and product degradation.

Hazardous Decomposition Products

When strongly heated, as in a fire, this product may produce oxides of carbon, oxides of nitrogen and ammonia.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Avoid contact with eyes. May cause irritation. **Eye Contact**

Skin Contact Avoid contact with skin. Prolonged or repeated contact may cause temporary irritation.

Inhalation Do not inhale. Large amounts may cause respiratory irritation to sensitive individuals.

Ingestion Do not ingest. Large quantities (more than few ounces) may cause upset stomach,

diarrhea, nausea, and vomiting.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Adipic acid	=	-	> 7.7 mg/L (Rat) 4 h > 31 mg/L
124-04-9			(Rat) 1 h

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not determined.

Persistence/Degradability

Not determined.

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Bioaccumulation

Not determined.

Mobility

Not determined.

Other Adverse Effects

Not determined.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT Not regulated.

IATA Not regulated.

IMDG Not regulated.

15. REGULATORY INFORMATION

International Inventories

TSCA Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Adipic acid	5000 lb		RQ 5000 lb final RQ
124-04-9			RQ 2270 kg final RQ

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Adipic acid	5000 lb			Χ

US State Regulations

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California Proposition 65

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive

U.S. State Right-to-Know Regulations

	Chemical Name	New Jersey	Massachusetts	Pennsylvania
ĺ	Adipic acid	X	X	X
	124-04-9			

16. OTHER INFORMATION

NFPAHealth Hazards
Not determinedFlammability
Not determinedInstability
Not determinedSpecial Hazards
Not determinedHMISHealth HazardsFlammabilityPhysical HazardsPersonal Protection
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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet