

SAFETY DATA SHEET

Date: November 23, 2015

USA / Canada SDS

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product name : Lin's Cupric Sulfate Medium

Relevant identified uses of the substance or mixture and uses advised against

Identified use : Microbiological media used for laboratory testing purposes, to detect wild yeasts encountered in breweries.

Details of the supplier of the safety data sheet

Company : Siebel Institute of Technology
900 N. North Branch St., suite 1N
Chicago, IL 60642
USA

Telephone : +1 (312) 255-0705

Fax : +1 (312) 255-1312

Email : info@siebelinstitute.com

Emergency telephone number

CHEMTREC (USA): 800-424-9300

CANUTEC (Canada): 613-996-6666

24 Hours/Day: 7 Days/Week

SECTION 2 - HAZARD IDENTIFICATION

Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

WHMIS Classification

Not a hazardous substance or mixture

Label elements

The product does not need to be labelled in accordance with GHS or respective national laws

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NFPA Ratings

Health	1
Flammability	0
Reactivity	0
Specific hazard	Not Available

HMIS Ratings

Health	1
Fire	0
Reactivity	0
Personal	E

Other hazards - None

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Mixture

Synonyms Lin's Cupric Sulfate Medium

LCSM

Component	Classification	Concentration
Ammonium chloride		
CAS RN: 12125-02-9	Acute Tox. 4; Eye Irrit. 2; H302, H319	1.2 – 1.4%

For the full text of H-Statements mentioned above – see Section 16.

SECTION 4 – FIRST AID MEASURES

Description of First Aid Measures:

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically and supportively

Eye contact: Adequately flush eyes with low-pressure water for at least 15 minutes. If irritation develops, seek medical attention.

Skin contact: Wash affected area with soap and water. Remove contaminated clothing and wash. If irritation develops, seek medical attention.

Inhalation: Immediately remove person to fresh air. Exhibition of irritation or an allergic response - Seek immediate medical attention

Ingestion: Rinse mouth thoroughly with water. Consult a physician.

Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2.2) and / or in section 11

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Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: No special requirements; Use water spray, dry chemical, carbon dioxide or foam

Special hazards arising from the substance or mixture

Product is shipped in pulverized form and may generate dust in handling. Like most dry organic materials, the dust carries a potential explosion hazard if the concentration in the air is too high and an ignition source is present.

Protective equipment for fire fighters

Wear self-contained positive pressure breathing apparatus (SCBA) and full firefighting clothing. During the fire, should the mixture become dissolved it will form a slippery solution.

Further Information

No data available

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Environment precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Sweep up and dispose of as hazardous waste without creating dust. Keep in suitable, closed containers for disposal. Keep away from ignition sources.

Reference to other sections.

See Section 8 for personal protective equipment

SECTION 7 – HANDLING & STORAGE

Precautions for safe handling

Keep container tightly sealed. Ensure good ventilation at the workplace. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

Conditions for safe storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Components with limit values that require monitoring at the workplace: Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

Personal protective equipment

General protective and hygienic measures

Follow the usual precautionary measures for handling of the materials. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Breathing equipment

Use suitable respirator when high concentrations present. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protection of hands

Check protective gloves prior to each use. Use proper glove removal technique to avoid skin contact with the product. Dispose of the contaminated gloves after use in accordance with applicable laws.

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

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Body protection

Impervious clothing the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Beige, fine powder
Solubility in water:	Mostly soluble in hot water.
Viscosity:	Viscous when rehydrated. The solution will form a gel upon cooling.
Odor:	Yeasty or meaty odour
Odor threshold:	No data available
pH:	No data available
Boiling point:	No data available
Flash point:	No data available
Flammability:	Not data available
Upper/Lowe flammability:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available
Relative density:	No data available
Vapour density:	No data available
Evaporation rate:	No data available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity

No data available

Chemical Stability

Stable under recommended storage conditions

Possibility of Hazardous reactions

No data available

Conditions to avoid

Moisture, incompatibles, fire, excessive heat

Incompatible materials

Strong oxidizers

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Hazardous decomposition products

Hazardous decomposition products – carbon oxides. Will form acrid smoke upon burning.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity

Ammonium chloride (CAS no. 12125-02-9)	
LD50 oral rat	1650 mg/kg

Skin corrosion/irritation

No data available

Serious eye damage/irritation:

Ammonium chloride (CAS no. 12125-02-9)	
Eyes - Rabbit	Irritating to eyes

Respiratory or skin sensitization

No data available

Germ Cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IAR

Reproductive toxicology

No data available

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

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Potential Health Effects:

Inhalation-	May cause respiratory tract irritation or asthmatic bronchitis.
Ingestion-	To the best of our knowledge, there is no evidence that amounts ingested incidental to normal use could result in significant adverse health effects.
Skin-	May cause mild irritation.
Eyes-	May cause mild irritation.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity

Ammonium chloride (CAS no. 12125-02-9)		
Toxicity to Fish	LC50 - Cyprinus carpio (Carp)	209 mg/l - 96 h
	LC50 - Oncorhynchus mykiss (rainbow trout)	3,98 mg/l - 96 h
	NOEC - Oncorhynchus mykiss (rainbow trout)	57 mg/l - 96 h
Toxicity to daphnia	Daphnia magna (Water flea)	161 mg/l - 48 h
	Growth inhibition NOEC - Daphnia magna (Water flea)	0,1 mg/l – 216h

Persistence and degradability

No data available

Bio-accumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available

Other adverse effects

No data available

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SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with prevailing country, federal, state and local regulations.

SECTION 14 – TRANSPORT INFORMATION

UN Number

DOT, ADR, ADN, IMDG, IATA – Not Regulated

UN proper shipping name

DOT, ADR, ADN, IMDG, IATA - Not Regulated

Transportation hazard class:

DOT, ADR, ADN, IMDG, IATA

Class - Not Regulated

Packaging group:

DOT, ADR, IMDG, IATA - Not Regulated

Environmental hazards:

Marine Pollutant-

Special precaution for user: No data available

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code - Not applicable.

Transport/Additional information: Not dangerous according to the above specifications.

UN "Model Regulation": - Not Regulated

SECTION 15 – REGULATORY INFORMATION

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

Ammonium chloride

CAS-No. 12125-02-9

Revision Date: 1994-04-01

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TSCA (Toxic Substances Control Act):	
CAS no. 9002-18-0	Agar
CAS no. 12125-02-9	Ammonium Chloride
CAS no. 7758-11-4	Dipotassium phosphate
CAS no. 9050-36-6	Dextrin

California Proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

New Jersey Right to Know Components

Ammonium Chloride CAS-No. 12125-02-9 Revision Date

Massachusetts Right to Know Components

Ammonium Chloride CAS-No. 12125-02-9 Revision Date 2007-07-01

Pennsylvania Right to Know Components

Ammonium Chloride CAS-No. 12125-02-9 Revision Date 2007-07-01

WHMIS (Canada):

Not rated

Canadian NPRI (Canada):

Ammonium Chloride CAS-No. 12125-02-9

SECTION 16 – OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

Acute Tox. Acute Toxicity
Eye Irrit. Eye Irritation
H302 Harmful if swallowed
H319 Causes serious eye irritation

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Revision date: November 23, 2015

Disclaimer: The information, data and recommendations contained in this SDS are provided in good faith, reliable sources, and believed to be true and accurate as our present state of knowledge and experience, as of the date of revision.. The SDS serves as description of the products in regard to necessary safety measures. No warranty, expressed or implied, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Conditions of use being out of control of our company, it is therefore up to the user to determine the conditions of safest use of this/these products.