# **ThermoFisher** SCIENTIFIC

# SAFETY DATA SHEET

Revision Date 24-Feb-2015

**Revision Number** 1

	1. Identification
Product Name	POTATO DEXTROSE AGAR BASE
Cat No. :	R454312, R454314
Synonyms	No information available
Recommended Use	Laboratory chemicals.
Uses advised against Details of the supplier of the safet	No Information available y data sheet
<b>Company</b> Remel 12076 Santa Fe Drive Lenexa, KS 66215 United States Telephone: 1-800-255-6730 Fax:1-800-621-8251	Emergency Telephone Number INFOTRAC - 24 Hour Number: 1-800-535-5053 Outside of the United States, call 24 Hour Number: 001-352-323-3500 (Call Collect)

# 2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements None required

Hazards not otherwise classified (HNOC)

None identified

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Copper (II) sulfate pentahydrate (1:1:5)	7758-99-8	0.003
Agar	9002-18-0	33.14
Citric acid	77-92-9	0.59
Soluble Starch	9005-84-9	10.2

4. First-aid measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes.		
Inhalation	Move to fresh air.		
Ingestion	Do not induce vomiting.		
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically		

# 5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available

#### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

#### None known

#### 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.

NEFA
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Health 1	Flammability 0	<b>Instability</b> 0	Physical hazards N/A	
	6. Accidental release measures			
Personal Precautions Environmental Precautions				
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dustUpformation. Prevent product from entering drains.				
7. Handling and storage				
Handling	Ensure adequate ventilatio	n.		
Storage	rage Keep containers tightly closed in a dry, cool and well-ventilated place.			
8. Exposure controls / personal protection				

Exposure Guidelines

### POTATO DEXTROSE AGAR BASE

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Copper (II) sulfate pentahydrate	TWA: 1 mg/m <sup>3</sup>		IDLH: 100 mg/m <sup>3</sup>
(1:1:5)			TWA: 1 mg/m <sup>3</sup>

#### <u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas.	
Personal Protective Equipment		
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.	
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.	
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

9. Physical and chemical properties

Physical State	Powder
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Relative Density	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products.	
Incompatible Materials Strong oxidizing agents		
Hazardous Decomposition Products None under normal use conditions		

**Hazardous Polymerization** 

Hazardous polymerization does not occur.

**Hazardous Reactions** 

None under normal processing.

11. Toxicological information

#### Acute Toxicity

#### **Product Information** Oral LD50 Dermal LD50 Mist LC50 Vapor LC50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 5 mg/l. Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

# **Component Information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Copper (II) sulfate pentahydrate	960 mg/kg (Rat) 300 mg/kg (Rat	2 g/kg (Rat)	Not listed
(1:1:5)	)		
Agar	11 g/kg (Rat)	Not listed	Not listed
Citric acid	3000 mg/kg (Rat)	>2 g/kg(Rat)	Not listed
Toxicologically Synergistic	No information available		

# Toxicologically Synergistic

#### Products

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

Irritation No i	nformation available
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No information available Sensitization

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
7758-99-8	Not listed	Not listed	Not listed	Not listed	Not listed
9002-18-0	Not listed	Not listed	Not listed	Not listed	Not listed
77-92-9	Not listed	Not listed	Not listed	Not listed	Not listed
9005-84-9	Not listed	Not listed	Not listed	Not listed	Not listed
	7758-99-8 9002-18-0 77-92-9	7758-99-8     Not listed       9002-18-0     Not listed       77-92-9     Not listed	7758-99-8 Not listed Not listed   9002-18-0 Not listed Not listed   77-92-9 Not listed Not listed	7758-99-8Not listedNot listedNot listed9002-18-0Not listedNot listedNot listed77-92-9Not listedNot listedNot listed	7758-99-8Not listedNot listedNot listedNot listed9002-18-0Not listedNot listedNot listedNot listed77-92-9Not listedNot listedNot listedNot listed

**Mutagenic Effects** No information available **Reproductive Effects** No information available. **Developmental Effects** No information available. Teratogenicity No information available. STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available

#### No information available **Endocrine Disruptor Information**

Other Adverse Effects

The toxicological properties have not been fully investigated.

12. Ecological information

#### Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Copper (II) sulfate	Not listed	Onchorhynchus mykiss:	Photobacterium	EC50 = 0.24 mg/L/48h

### POTATO DEXTROSE AGAR BASE

pentahydrate (1:1:5)		LC50 = 0.1-2.5 mg/L/96h	phosphoreum: EC50 = 0.25	
			mg/L/30min as Cu++	
			Photobacterium	
			phosphoreum EC50= 1.3	
			mg/L/5 min as Cu++	
Citric acid	Not listed	Leuciscus idus: LC50 = 440-760 mg/L/96h	Photobacterium phosphoreum: EC50 = 14 mg/L/15 min	EC50 = 120 mg/L/72h
lorgistones and Degrada	hility No informatio		ing 2 to film	

Persistence and Degradability Bioaccumulation/ Accumulation No information available No information available.

#### Mobility

Component	log Pow
Citric acid	-1.72

# 13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information				
DOT	Not regulated				
DOT TDG IATA	Not regulated				
IATA	Not regulated				
IMDG/IMO	Not regulated				
15. Regulatory information					

#### All of the components in the product are on the following Inventory lists: X = listed

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Copper (II) sulfate pentahydrate (1:1:5)	-	-	-	-	-		Х	-	Х	Х	-
Agar	Х	Х	-	232-658-1	-		Х	-	Х	Х	Х
Citric acid	Х	Х	-	201-069-1	-		Х	Х	Х	Х	Х
Soluble Starch	Х	Х	-	232-686-4	-		Х	Х	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

#### TSCA 12(b)

Not applicable

### SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold

			Values %
Copper (II) sulfate pentahydrate (1:1:5)	7758-99-8	0.003	1.0

#### SARA 311/312 Hazardous Categorization

0	
Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Copper (II) sulfate pentahydrate (1:1:5)	-	-	Х	-

Clean Air Act

Not applicable

**OSHA** Occupational Safety and Health Administration Not applicable

#### CERCLA

Not applicable

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Copper (II) sulfate	-	Х	Х	-	-
pentahydrate (1:1:5)					

#### **U.S. Department of Transportation**

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

#### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

# Other International Regulations

Mexico - Grade

No information available

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

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Non-controlled
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16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	24-Feb-2015 24-Feb-2015 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on 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 a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

# **End of SDS**