

## SAFETY DATA SHEET

Revision Date 16-Apr-2015 Revision Number 1

1. Identification

Product Name PHENOL RED BROTH with and without ADDITIVES

Cat No.: R062202, R062212, R062222, R062232, R062224, R062242, R062252,

R062272, R062282, R062292, R062302, R062312, R062322, R062326, R062332, R062342, R062352, R062362, R062372, R062382, R062412, R062416, R062432, R062436, R062442, R062444, R062452, R062454

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Emergency Telephone Number

Remel INFOTRAC - 24 Hour Number: 1-800-535-5053

12076 Santa Fe Drive Outside of the United States, call 24 Hour Number: 001-352-323-3500 (Call Collect)

Lenexa, KS 66215 United States Telephone: 1-800-255-6730

Fax:1-800-621-8251

## 2. Hazard(s) identification

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements

Signal Word

Not Hazardous

**Hazard Statements** 

**Precautionary Statements** 

Storage

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

**Disposal** 

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Caseins, hydrolyzates	65072-00-6	0.97
Phenol Red	34487-61-1	0.002
D-Glucose, 4-ObetaD-glucopyranosyl-	528-50-7	0-1
Ribitol	488-81-3	0-1
L-Arabinopyranose	87-72-9	0-1
Glycerol	56-81-5	0-1
D-Galactose	59-23-4	0-1
.betaD-Lactose	63-42-3	0-1
D(+)-Maltose monohydrate	6363-53-7	0-1
D-Mannitol	69-65-8	0-1
D-Mannose	3458-28-4	0-1
D-Glucose, 6-OalphaD-galactopyranosyl-	585-99-9	0-1
Raffinose pentahydrate	17629-30-0	0-1
L(+)-Rhamnose monohydrate	10030-85-0	0-1
D-Glucitol D-Glucitol	50-70-4	0-1
Sucrose	57-50-1	0-1
Trehalose dihydrate	6138-23-4	0-1
D-Xylose	58-86-6	0-1
Glucose	50-99-7	0-1
Inulin	9005-80-5	0-1
Galactitol	608-66-2	0-1
myo-Inositol	87-89-8	0-1

### 4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Obtain medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

**Inhalation** Move to fresh air. Get medical attention immediately if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms/effects None reasonably foreseeable. Symptoms of allergic reaction may include rash, itching,

swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest

pain, muscle pain or flushing

Notes to Physician Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point No information available 44444 80031.2

Method - No information available

**Autoignition Temperature** 

No information available

**Explosion Limits** 

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge 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.

NFPA

HealthFlammabilityInstabilityPhysical hazards20N/A

### 6. Accidental release measures

Personal Precautions
Environmental Precautions

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

Should not be released into the environment.

**Methods for Containment and Clean** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, **Up** sawdust). Provide adequate ventilation.

## 7. Handling and storage

Handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.

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

### 8. Exposure controls / personal protection

### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol		(Vacated) TWA: 10 mg/m <sup>3</sup>	
		(Vacated) TWA: 5 mg/m <sup>3</sup>	
		TWA: 15 mg/m <sup>3</sup>	
		TWA: 5 mg/m <sup>3</sup>	
Sucrose	TWA: 10 mg/m <sup>3</sup>	(Vacated) TWA: 15 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
		(Vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
		TWA: 15 mg/m <sup>3</sup>	
		TWA: 5 mg/m <sup>3</sup>	

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Glycerol	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Sucrose	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m³ STEL: 20 mg/m³	TWA: 10 mg/m <sup>3</sup>

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

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 Liquid

AppearanceNo information availableOdorNo information availableOdor ThresholdNo information available

pH No information available
Melting Point/Range No data available

Boiling Point/Range No information available

Flash Point No information available 44444 80031.2

Evaporation Rate No information available Flammability (solid,gas) No information available

Flammability or explosive limits

Upper
Lower
No data available
No data available
No data available
No data available
No information available
Partition coefficient; n-octanol/water
No data available

Autoignition Temperature

Decomposition Temperature

Viscosity

No information available
No information available
No information available

VOC Content(%)

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Stable under normal conditions.

**Conditions to Avoid** Incompatible products. Excess heat. Avoid dust formation.

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

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

Dermal LD50

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

Vapor LC50

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

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycerol	12600 mg/kg (Rat)	10 g/kg (Rabbit)	570 mg/m³ (Rat) 1 h
.betaD-Lactose	10 g/kg (Rat)	Not listed	Not listed
D-Mannitol	13500 mg/kg (Rat)	Not listed	Not listed
D-Glucitol	15900 mg/kg (Rat)	Not listed	Not listed
Sucrose	29700 mg/kg (Rat)	Not listed	Not listed
Trehalose dihydrate	4600 mg/kg (Rat)	Not listed	Not listed
Glucose	25.8 g/kg ( Rat )	Not listed	Not listed

**Toxicologically Synergistic** 

No information available

**Products** 

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

Irritation No information available

Sensitization No information available

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

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Caseins, hydrolyzates	65072-00-6	Not listed				
Phenol Red	34487-61-1	Not listed				
D-Glucose, 4-ObetaD-glucopyra nosyl-	528-50-7	Not listed				
Ribitol	488-81-3	Not listed				
L-Arabinopyranose	87-72-9	Not listed				
Glycerol	56-81-5	Not listed				
D-Galactose	59-23-4	Not listed				
.betaD-Lactose	63-42-3	Not listed				
D(+)-Maltose monohydrate	6363-53-7	Not listed				
D-Mannitol	69-65-8	Not listed				
D-Mannose	3458-28-4	Not listed				
D-Glucose, 6-OalphaD-galactop yranosyl-	585-99-9	Not listed				
Raffinose pentahydrate	17629-30-0	Not listed				
L(+)-Rhamnose monohydrate	10030-85-0	Not listed				
D-Glucitol	50-70-4	Not listed				
Sucrose	57-50-1	Not listed				
Trehalose dihydrate	6138-23-4	Not listed				
D-Xylose	58-86-6	Not listed				
Glucose	50-99-7	Not listed				
Inulin	9005-80-5	Not listed				
Galactitol	608-66-2	Not listed				
myo-Inositol	87-89-8	Not 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

#### PHENOL RED BROTH with and without ADDITIVES

STOT - repeated exposure None known

**Aspiration hazard** No information available

delayed

Symptoms / effects, both acute and Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

**Endocrine Disruptor Information** No information available

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
L-Arabinopyranose	Not listed	37700 mg/L LC50 96 h	Not listed	Not listed
Glycerol	Not listed	51 - 57 mL/L LC50 96 h	Not listed	500 mg/L EC50 > 24 h

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

**Mobility** 

Component	log Pow
Glycerol	-1.76
Sucrose	-3.67
myo-Inositol	-2.08

# 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

Not regulated DOT Not regulated TDG Not regulated IATA Not regulated IMDG/IMO

## 15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed The product is classified and labeled according to EC directives or corresponding national laws The product is classified and labeled in accordance with Directive 1999/45/EC No information available

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Caseins, hydrolyzates	Χ	Χ	-	265-363-1	-		Χ	Χ	Χ	Х	Χ
Phenol Red	Χ	Χ	-	252-057-8	-		Χ	-	-	Х	Χ
D-Glucose,	Χ	Х	-	208-436-5	-		Х	-	Χ	Х	-
4-ObetaD-glucopyranosyl-											
Ribitol	Χ	Χ	-	207-685-7	1		Χ	-	Χ	-	-
L-Arabinopyranose	Χ	-	X	201-767-6	1		Χ	-	Χ	-	Χ
Glycerol	Χ	Χ	-	200-289-5	-		Χ	Χ	Χ	Χ	Χ
D-Galactose	Χ	Χ	-	200-416-4	-		Χ	Χ	Χ	Х	Χ
.betaD-Lactose	Χ	Χ	-	200-559-2	-		Χ	-	Χ	Х	Х
D(+)-Maltose monohydrate	-	1	-	-	1		Χ	-	Χ	Χ	-
D-Mannitol	Χ	Χ	-	200-711-8	-		Χ	Χ	Χ	Х	Х

Х

Χ

Χ

Х

Χ

-

Χ

D-Mannose 222-392-4 Χ Χ Χ Х Χ D-Glucose. Χ Х 209-568-6 Χ Х 6-O-.alpha.-D-galactopyranos yl-Raffinose pentahydrate Χ Х (+)-Rhamnose monohydrate X Χ D-Glucitol Χ 200-061-5 X Χ X Χ Χ 200-334-9 Sucrose Χ Χ Χ Χ Χ Χ ---Trehalose dihydrate Χ Χ Χ Χ Χ 200-400-7 X Χ D-Xylose Χ Χ Χ \_

200-075-1

232-684-3

210-165-2

201-781-2

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Χ

Χ

X

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X

#### Legend:

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

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

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- 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

Glucose

Inulin

Galactitol

myo-Inositol

- 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 Not applicable

SARA 311/312 Hazardous Categorization

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

Clean Water Act Not applicable

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
Glycerol	X	X	X	-	X
Sucrose	X	-	X	-	X

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

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

### **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 D2B Toxic materials



## 16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific

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Revision Date 16-Apr-2015 Print Date 16-Apr-2015

**Revision Summary** 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**