ThermoFisher SCIENTIFIC

SAFETY DATA SHEET

Revision Date 16-Mar-2016

Revision Number 1

	1. Identification
Product Name	HTM BROTH
Cat No. :	R07681, R20044, R112380
Synonyms	No information available
Recommended Use	Laboratory chemicals.
Uses advised against Details of the supplier of the safet	No Information available y data sheet
Company 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

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 %
Sodium hydroxide	1310-73-2	Trace
Dihydrogen	15489-90-4	Trace
hydroxy[3,8,13,17-tetramethyl-7,12-divinyl-21H,23H		
-porphine-2,18-dipropionato(4-)-N21,N22,N23,N24]f		

errate(2-)			
	4. First-aid	measures	
ye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.		
kin Contact	Wash off immediately with plenty of water for at least 15 minutes.		
halation	Move to fresh air.		
gestion	Do not induce vomiting.		
lost important symptoms/effects otes to Physician	No information available. Treat symptomatically		
	5. Fire-fightir	ng measures	
nsuitable Extinguishing Media	No information available		
Flash Point Method -	No information available No information available		
utoignition Temperature xplosion Limits Upper Lower Sensitivity to Mechanical Impact	No information available No data available No data available No information available		
eep product and empty container awa	No information available hemical ay from heat and sources of	ignition.	
Specific Hazards Arising from the C Geep product and empty container awa Hazardous Combustion Products Jone known Protective Equipment and Precaution As in any fire, wear self-contained breat Protective gear.	hemical ay from heat and sources of ons for Firefighters athing apparatus pressure-d	emand, MSHA/NIOSH (approv	
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Specific Hazards Arising from the C Geep product and empty container away Iazardous Combustion Products Jone known Protective Equipment and Precaution Is in any fire, wear self-contained breat rotective gear. IFPA Health 1 Personal Precautions Environmental Precautions Methods for Containment and Clear Ip	hemical ay from heat and sources of ons for Firefighters athing apparatus pressure-d Flammability 0 6. Accidental rel Ensure adequate ventilatio See Section 12 for addition Soak up with inert absorbe sawdust). Keep in suitable,	emand, MSHA/NIOSH (approv Instability 0 ease measures n. Use personal protective equival ecological information. Int material (e.g. sand, silica ge closed containers for disposal	Physical hazards N/A ipment.
Epecific Hazards Arising from the C Events of the epiperiod	hemical ay from heat and sources of ons for Firefighters athing apparatus pressure-de Flammability 0 6. Accidental rel Ensure adequate ventilation See Section 12 for addition Soak up with inert absorbe sawdust). Keep in suitable, 7. Handling a Ensure adequate ventilatio	emand, MSHA/NIOSH (approv Instability 0 ease measures n. Use personal protective equival ecological information. Int material (e.g. sand, silica ge closed containers for disposal	Physical hazards N/A ipment. I, acid binder, universal binder,
Specific Hazards Arising from the C Geep product and empty container away lazardous Combustion Products lone known Protective Equipment and Precaution is in any fire, wear self-contained breat rotective gear. IFPA Health 1 Personal Precautions Invironmental Precautions Methods for Containment and Clean Ip landling Storage	hemical ay from heat and sources of ons for Firefighters athing apparatus pressure-d Flammability 0 6. Accidental rel Ensure adequate ventilatio See Section 12 for addition Soak up with inert absorbe sawdust). Keep in suitable, 7. Handling a Ensure adequate ventilatio Keep containers tightly close	emand, MSHA/NIOSH (approv Instability 0 ease measures n. Use personal protective equival ecological information. Int material (e.g. sand, silica ge closed containers for disposal and storage n.	Physical hazards N/A ipment. I, acid binder, universal binder, I.

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide	Ceiling: 2 mg/m ³	(Vacated) Ceiling: 2 mg/m ³ TWA: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³
Dihydrogen hydroxy[3,8,13,17-tetramethyl-7,12- divinyl-21H,23H-porphine-2,18-dipr opionato(4-)-N21,N22,N23,N24]ferr ate(2-)	TWA: 1 mg/m³	(Vacated) TWA: 1 mg/m ³	TWA: 1 mg/m³
Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV

Component	Quebec	MEXICO UEL (TWA)	
Sodium hydroxide	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	CEV: 2 mg/m ³
Dihydrogen hydroxy[3,8,13,17-tetramethyl-7,12- divinyl-21H,23H-porphine-2,18-dipr opionato(4-)-N21,N22,N23,N24]ferr ate(2-)		TWA: 1 mg/m³ STEL: 2 mg/m³	TWA: 1 mg/m ³

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	None under normal use conditions.	
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	No protective equipment is needed under normal use conditions.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

9. Physical and chemical properties

7.11195100	and chernical properties
Physical State	Liquid
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)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	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 Product	s 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 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 > 20 mg/l.		
Component Information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	Not listed	LD50 = 1350 mg/kg (Rabbit)	Not listed
Toxicologically Synergistic Products	No information available	l	
Delayed and immediate effects	as well as chronic effects from	n short and long-term exposure	·
Irritation	No information available		

Sensitization

No information available

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
Sodium hydroxide	1310-73-2	Not listed	Not listed	Not listed	Not listed	Not listed
Dihydrogen hydroxy[3,8,13,17-tetr amethyl-7,12-divinyl-2 1H,23H-porphine-2,18- dipropionato(4-)-N21,N 22,N23,N24]ferrate(2-)	15489-90-4	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effects	6	No information ava	ailable.			
Developmental Effec	ts	No information ava	ailable.			

Teratogenicity

STOT - single exposureNone knownSTOT - repeated exposureNone knownAspiration hazardNo 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
Sodium hydroxide	-	LC50: = 45.4 mg/L, 96h static (Oncorhynchus mykiss)	-	-
Persistence and Degradat	bility No information	on available		
Bioaccumulation/ Accumu	ulation No information	No information available.		

Mobility No information available.

	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

	ra. Iransport information
DOT TDG IATA	Not regulated
TDG	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
Sodium hydroxide	Х	Х	-	215-185-5	-		Х	Х	Х	Х	Х
Dihydrogen hydroxy[3,8,13,17-tetramethy I-7,12-divinyI-21H,23H-porphi ne-2,18-dipropionato(4-)-N21 ,N22,N23,N24]ferrate(2-)		-	-	239-518-9	-		-	-	-	-	-

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
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SARA 313 Not applicable

SARA 311/312 Hazard Categories	
Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Sodium hydroxide	Х	1000 lb	-	-

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component		Hazardous Substances RQs	CERCLA EHS RQs	
Sodium hydroxide		1000 lb	-	
Colifernia Dreposition CE				

California Proposition 65 This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know

Regulations			·		
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium hydroxide	Х	Х	Х	-	Х
Dihydrogen	-	-	-	-	Х
hydroxy[3,8,13,17-tetram					
ethyl-7,12-divinyl-21H,23					
H-porphine-2,18-dipropio					
nato(4-)-N21,N22,N23,N					
24]ferrate(2-)					

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

Non-controlled

16. Other information

Prepared By

Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com Revision Date Print Date Revision Summary 16-Mar-2016 16-Mar-2016 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 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 a 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 SDS