ThermoFisher SCIENTIFIC

SAFETY DATA SHEET

Revision Date 09-Jun-2016

Revision Number 1

	1. Identification
Product Name	Thayer Martin, Modified Medium
Cat No. :	R01880, R01881, R01882, R10310
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

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 %
Vitamin B12	68-19-9	Trace
Iron(III) nitrate nonahydrate	7782-61-8	Trace
Hydrogen chloride	7647-01-0	Trace

1 0 0 N/A 6. Accidental release measures N/A Personal Precautions Ensure adequate ventilation. Use personal protective equipment. See Section 12 for additional ecological information. Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for dispose Up 7. Handling and storage					
attendance. Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lem: continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a p immediately. Skin Contact Consult a physician. Wash off immediately with soap and plenty of water while remo- contaminated clothes and shoes. Inhalation Immediate medical attention is required. Move to fresh air. If not breathing, give ariti- respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the sub give aritifical respiration with the aid of a pocket mask equipped with a one-way valu other proper respiratory medical device. Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately. Nev anything by mouth to an unconscious person. Drink plenty of water. Most important symptoms/effects No information available. Treat symptomation available. Flash Point No information available Method - No information available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Mechanical Impact No information available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No informati		4. First-ai	d measures		
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Handling Ensure adequate ventilation.	Handling	Ensure adequate ventila	tion.		

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
Vitamin B12		(Vacated) TWA: 5 mg/m ³	IDLH: 25 mg/m ³
Iron(III) nitrate nonahydrate	TWA: 1 mg/m ³	(Vacated) TWA: 1 mg/m ³	TWA: 1 mg/m ³
Hydrogen chloride	Ceiling: 2 ppm	Ceiling: 5 ppm Ceiling: 7 mg/m ³ (Vacated) Ceiling: 5 ppm (Vacated) Ceiling: 7 mg/m ³	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m ³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Vitamin B12	Ceiling: 10 ppm Ceiling: 11 mg/m³ Skin	TWA: 5 mg/m ³	
Iron(III) nitrate nonahydrate	TWA: 1.0 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³
Hydrogen chloride	Ceiling: 5 ppm Ceiling: 7.5 mg/m ³	Ceiling: 5 ppm Ceiling: 7 mg/m ³	CEV: 2 ppm

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	Tightly fitting safety goggles.
Skin and body protection	Impervious gloves. impervious clothing.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

9. Physical and chemical properties					
Physical State	Solid Gel Consistency				
Appearance	No information available				
Odor	No information available				
Odor Threshold	No information available				
pH	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				
lammability (solid,gas) No information available					
Flammability or explosive limits					
Upper	No data available				
Lower	No data available				
Vapor Pressure	No information available				
·					

Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity

No information available No information available No information available No data available No information available No information available 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	I						
Oral LD50		Based on ATE da	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.				
Dermal LD50		Based on ATE da	ata, the class	sification cr	riteria are not m	et. ATE > 2000 m	g/kg.
Mist LC50		Based on ATE da	ata, the class	sification cr	riteria are not m	et. ATE > 5 mg/l.	
Vapor LC50		Based on ATE da	ata, the clas	sification cr	riteria are not m	et. ATE > 20 mg/l	
Component Informa	tion						
Componen	t	LD50 Oral		LD	LD50 Dermal LC50 Inhalation		
Iron(III) nitrate nona	ahydrate	LD50 = 3250 mg/kg	(Rat)	Ν	ot listed	N	ot listed
Hydrogen chlo	ride	LD50 238 - 277 mg/kg	(Rat)	LD50 > 501	0 mg/kg (Rabbit) LC50 = 1.6	8 mg/L (Rat)1 h
Toxicologically Syn Products Delayed and immed	-	No information a		short and le	ong-term expo	sure_	
Irritation		No information a	vailable				
Sensitization		No information a	vailable				
Carcinogenicity		The table below	indicates wh	ether each	agency has list	ed any ingredient	as a carcinogen.
Component	CAS-N	o IARC	NTF	>	ACGIH	OSHA	Mexico
Vitamin B12	68-19-	9 Not listed	Not lis	ted	Not listed	Not listed	Not listed
Iron(III) nitrate nonahydrate					Not listed	Not listed	Not listed
Hydrogen chloride	drogen chloride 7647-01-0 Not listed Not listed Not listed Not listed Not listed						Not listed
Mutagenic Effects No information available							
Reproductive Effect	No information a	vailable.					
Developmental Effects		No information a	No information available.				

Teratogenicity No information available.

STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delaved	No information available
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		
Hydrogen chloride	Not listed	LC50: = 282 mg/L, 96h static (Gambusia affinis)	Not listed	Not listed		
Persistence and Degrada	bility No informat	ion available				
Bioaccumulation/ Accum	ulation No informat	ion available.	n available.			
Mobility	No informat	ion available.				
	13. D	isposal considera	ations			
Waste Disposal Methods	Should not	pe released into the environr	nent.			
	14.	Transport informa	ation			
DOT	Not regulate	ed				
TDG	Not regulate	ed				
IATA Not regulated						
IMDG/IMO	Not regulate	ed				
	15. F	Regulatory inform	ation			

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
Vitamin B12	Х	Х	-	200-680-0	-		Х	-	Х	Х	Х
Iron(III) nitrate nonahydrate	-	-	-	-	-		Х	-	Х	Х	-
Hydrogen chloride	Х	Х	-	231-595-7	-		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 %
Vitamin B12	68-19-9	Trace	1.0
Iron(III) nitrate nonahydrate	7782-61-8	Trace	1.0
Hydrogen chloride	7647-01-0	Trace	1.0

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
ſ	Vitamin B12	-	-	Х	Х
ſ	Hydrogen chloride	X	5000 lb	-	-

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Vitamin B12	Х		-
Hydrogen chloride	X		-

OSHA Occupational Safety and Health Administration

OSHA - United States Occupational Safety and Health Administration

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Hydrogen chloride	-	TQ: 5000 lb

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
Hydrogen chloride	5000 lb	5000 lb

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

U.S. State Right-to-Know Regulations

Acgulations					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Vitamin B12	-	Х	Х	Х	Х
Iron(III) nitrate nonahydrate	-	Х	Х	Х	Х
Hydrogen chloride	Х	Х	Х	Х	Х

U.S. Department of Transportation

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

U.S. Department of Homeland Security

This product contains the following DHS chemicals:

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Component DHS Chemical Facility Anti-Terrorism Standard
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Hydrogen chloride	0 lb STQ (anhydrous); 11250 lb STQ (37% concentration or
	greater)

Other International Regulations

Mexico - Grade

No information available

Non-controlled

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

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	16. Other information
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Revision Date	09-Jun-2016
Print Date	09-Jun-2016
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 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