

Safety Data Sheet 9125357 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/29/2019 Version: 1.0

1.1. identification Product form Substance Substance name : Hexafluoroaccetylacetonato manganese(II) CAS No : 19648-86-3 Product code : 9125-5-7 Formula : C10H2F12MnO4 Synonyms : Manganese hexafluoroacetylacetonate Other means of dentification :: Microboxetylacetonate Other means of dentification :: Marcboxetylacetonate Other means of dentification :: Marcboxetylacetonate Stantance/mixture :: Laboratory chemicals Mauracture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet SynOuset Laboratories, Inc. PO-D 80x 300 Vo. Box 300 : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazzard(c) identification : 2.1. Classification of the substance or mixture Classification (GHS-US) : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazzard(c) identification : 2.1. Classification of the substance or mixture Classification (GHS-US) : (644) 523-4086 (3E Company - Account 10069) SECTION 2: Hazzard(c) identification : 2	
Substance name : Hexafluoroacetylacetonato manganese(II) CAS No : 19648-96-3 Product code : 19125-5-7 Formula : C1012F12MnO4 Synonyms : MECD00042513 12. Relevant identification : MECD00042513 12. Relevant identification : Laboratory rhemicals Manufacture of substances Scientific research and development 13. Details of the supplier of the safety data sheet SynOutes Laboratories, Inc. Pro. Box 309 Nachus, F1 32615 - United States of America Toge (42-078) F- (286) 462-078 Info@States of the substance or mixture 14.4 Energency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) Identification 21. Classification of the substance or mixture Consolidation of the substance or mixture Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) Identification 21. Classification of the substance or mixture Chessification (GHS-US) Acute Tox 4 (Ora) H302 - Harmful i avalowed Acute Tox 4 (Ora) H3132 - Harmful i avalowed Acute Tox 4 (Ora) H3132 - Harmful i avalowed Acute Tox 4 (Ora) H314 - Causes serious eye damage STOT SE 3 H335 - May cause respiratory irritation Ful text of H-phrases: see section 16 22. Label elements CHS-US labeling Hazard pictograms (GHS-US) : H332-H312+H332-Harmful i forvaliowed, in contact with skin or if inhaled H315 - Causes serious ere serioritory irritation H318 - Causes serious ere serioritory irritation Ful text of H-phrases: see section 16 24. Caesal caesan intration Pare-autonary statements (GHS-US) : P281 - Avoid breathing dust, mit, sproy P270 - Do not ext, dirik or senoke when using this product P270 - Do not ext, dirik or senoke when using this product P270 - Do not ext, dirik or senoke when using this product P271 - Use only outdoors or in a well-vernitiated res P280 - Ware is internation P272 - Do n	
CAS No : 19648-86-3 Product code : 9125-3-57 Formula : 101212/Mn04 Synonyms : Manganese hexafluoracatylacatonate Dther means of identification : MFCD00042513 1.2. Relevant identified uses of the substance or mixture and uses advised against Jace of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet SynOutest Laboratories, Inc. P.O. Box 309 Machata, FL 32615 - United States of America 1 (386) 462-0789 + F (386) 462-7097 Info gi synouestiables, com : www.synouestlabs.com 1.4. Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture Classification (GHS-US) Scuent Tox 4 (Oral) HB02 - Harmful if swallowed Acute Tox 4 (Dema) H312 - Harmful if onclast with skin Acute Tox 4 (Dema) H312 - Harmful if onclast with skin Acute Tox 4 (Dema) H312 - Harmful if onclast with skin Acute Tox 4 (Dema) H312 - Harmful if onclast with skin Acute Tox 4 (Dema) H312 - Harmful if onclast with skin Acute Tox 4 (Dema) H312 - Harmful if onclast with skin Acute Tox 4 (Dema) H312 - Harmful if onclast with skin Acute Tox 4 (Dema) H312 - Harmful if swallowed Acute Tox 4 (Dema) H312 - Harmful if swallowed Acute Tox 4 (Dema) H315 - Causes serious eye damage Stor Stor Stor May cause repriratory irritation Full text of H-phrases: see section 16 2.2. Label elements GHS-US habeling Hazard pictograms (GHS-US) : H332-H372+H332 - Harmful if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H316 - Causes skin irritation H318 - Causes s	
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Date means of identification : MFCD00042513 1.2. Relevant identified uses of the substance or mixture and uses advised against Jae of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet SynOuest Laboratories, Inc. *0. Box 309 Matchia, FL 32615 - United States of America (186) 462-0780 + F (386) 462-7097 (1869 ynduestification of the substance com 1.4. Emergency telephone number Emergency telephone number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(S) identification : 2.1. Classification of the substance or mixture Classification (GHS-US) : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(S) identification : Classification (GHS-US) : (843) 523-4086 (3E Company - Account 10069) Section 2: 4 (Inhalaton) H332 - Harmful if swallowed value Tox 4 (Demai) H315 - Causes sin iritiation Full text of H-phrases: see section 16 : : 22. Label elements : SHS-US flabeling Hazard pictograms (GHS-US) : Danger : value as skin intration H316 - Causes skin intration H316 - Causes skin intration H318 - Causes skin intration H318 - Causes skin intratio	
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Jase of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet SynQuest Laboratories, Inc. O. Box 309 Values, FL 32515 - United States of America (1984) 482-7384 - F1 3369, 482-7097 (fold synquestlabs.com - www.synquestlabs.com 1.4. Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) identification 21. Classification of the substance or mixture Classification (CHS-US) vote Tox 4 (Oral) H302 - Harmful if swallowed vote Tox 4 (Oral) Vate Tox 4 (Oral) H312 - Harmful if oral or and the substance or mixture Classification (CHS-US) vote Tox 4 (Inhalaton) H332 - Harmful if inhaled type damage Stor 15 - Clauses skin initiation ull text of H-phrases: see section 16 22. Label elements 23. H335 - May cause respiratory initiation H315 - Clauses skin initiation ull text of H-phrases: see section 16 24. Label elements 24. Label elements 24. Label elements 24. Label elements 24. Statements (GHS-US) : Danger + Lazard statements (GHS-US) : Danger + Lazard statements (GHS-US) : Danger + Lazard statements (GHS-US) : P261 - Avoid breathing dust, mist, spray P264 - Wash skin throrolyphyl after handling P270 - Do not eat, drink or smok when using this product P270 - Use only o	
Manufacture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet SynOuest Laboratories, Inc. PO. Box 300 Alachua, FL 32615 - United States of America (7.366) 462-0788 - F (386) 462-7097 Ind 82 synQuestals.com - www.synquestabs.com L4. Emergency telephone number Emergency public of the substance or mixture Classification (GHS-US) Acute Tox. 4 (Oral) H302 - Harmful if swallowed Acute Tox. 4 (Oral) H302 - Harmful if no contact with skin Acute Tox. 4 (Inhalation) H332 - Harmful if inhaled Skin Irit. 2 H315 - Causes serious eye damage STOT SE 3 H335 - May cause respiratory irritation FUIL text of H-phrases: see section 16 E 2.2. Label elements CHS-US bioling : Danger Hazard pictograms (GHS-US) : Danger -tazard statements (GHS-US) : P261 - Avoid breating dust, mist, spray Precautionary statements (GHS-US) : P261 - Avoid breating dust, mist, spray P264 - Wash skin thoroughy after handing P270 - Do not eat, dink for smoke when using this product P270 - Do not eat, dink for somoke when us	
SynQuest Laboratories, Inc. P.O. Box 309 Machua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 Info@ synquestibles.com - www.synquestibles.com 14. Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture Classification (OHS-US) Acute Tox. 4 (Derma) H312 - Harmful if swallowed Acute Tox. 4 (Derma) H312 - Harmful if contact with skin Acute Tox. 4 (Derma) H312 - Harmful if contact with skin Acute Tox. 4 (Derma) H313 - Causes serious eye damage SYOT SE 3 H335 - May cause respiratory irritation Full text of H-phrases: see section 16 E22. Label elements EMS-US GHS-US labeling : Danger Hazard pictograms (GHS-US) : H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H315 - Causes skin irritation H315 - Causes skin irritation Hazard pictograms (GHS-US) : Danger Hazard statements (GHS-US) : Pager H335 - May cause respiratory irritation H316 - Causes skin irritation H315 - Causes skin irritation	
P.O. Box 309 Alachus, FL 32615 - United States of America T (386) 492-0786 - F (386) 492-7097 Info@synquestlabs.com 1.4. Emergency telephone number Emergency number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(5) Identification 2.1. Classification of the substance or mixture Classification (GHS-US) Acute Tox 4 (Oral) H302 - Harmful if swallowed Acute Tox 4 (Demal) H312 - Harmful in contact with skin Acute Tox 4 (Demal) H312 - Harmful in contact with skin Acute Tox 4 (Demal) H312 - Harmful in contact with skin Acute Tox 4 (Inhalation) H332 - Harmful in contact with skin Skin Irit. 2 H315 - Causes serious eye damage STOT SE 3 H335 - May cause respiratory irritation Full text of H-phrases: see section 16 E 2.2. Label elements GHS-US labeling : Hazard statements (GHS-US) : Yazard statements (GHS-US) : Precautionary statements (GHS-US) : Precautionary statements (GHS-US) : Precautionary statements (GHS-US) :	
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lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/ physician P321 - Specific treatment (see supplemental first aid instructions on this label)	thing

Hexafluoroacetylacetonato manganese(II) Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.4. Unknown acute toxicity (GHS US) Not applicable SECTION 32: Composition/information on ingredients 3.1. Substance Substance type : Mone-constituent Name Product identifier % Classification (GHS Mane Product identifier % Classification (GHS Main construction (CAS No 1864/56-3 <= 100 Acute Tox: 4 (DBI, NOS) Main construction (CAS No 1864/56-3 <= 100 Acute Tox: 4 (DBI, NOS) Statistic: 183 Section 16 3.2. Mixture Not applicable SECTION 4: First ald measures First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the investing, give regination. Get immediate medical advice/attention. :: Remove person to fresh air and keep controtable for breathing, give regination. Get immediate medical advice/attention. First-aid measures after six contact : Wash with plenty of soap and water. Get immediate medical advice/attention. First-aid measures after six contact : Wash with plenty of soap and water. Get immediate medical advice/attention. First-aid measures after six contact : Wash with plenty of soap and water. Get immediate medical advice/attention. First-aid measures after six ocontact : W	P330 - Rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant							
Not applicable SECTION 3: Composition/information on ingredients 3.1 Substance Substance type : Mono-constituent Name Product identifier % Classification (CHS- Macube Tox 4 (CPa), H30 Name (CAS No) 19648-86-3 <= 100 Acute Tox 4 (CPa), H30 Hearling consequipacionation manganese(II) (CAS No) 19648-86-3 <= 100 Acute Tox 4 (CPa), H30 Full text of H-phrases: see section 16							ards	.3. Other hazard
Not applicable SECTION 3: Composition/information on ingredients 3.1. Substance Substance type i. Mono-constituent intervent								
SECTION 3: Composition/information on ingradients Substance Substance Substance type : Mono-constituent Mane Product identifier % Classification (CHS Acute Tor. 4 (Orm), H30 Acute Tor. 4 (Orm), H30 Acu						JS)	acute toxicity (GHS US	
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Substance type I: Mono-constituent Name Product identifier % Classification (CHS.) Idealing conservations of manganese (III) (CAS No) 18648-86-3 Call To A. (1078), H333. And To A. (1078), H333. And To A. (1078), H333. And To A. (1078), H333. Store To A. (1078), H					gredients	ation on ing	mposition/informa	ECTION 3: Comp
Name Product identifier % Classification (GHS- Acute Tox. 4 (Ora), H30 (Main constituent) Hexafluoroacerylacetonato manganese(II) (Main constituent) ICAS No) 19648-86-3 s= 100 Acute Tox. 4 (Ora), H30 STOT E 3, H335 Full text of H-phrases: see section 16 3.2 Mixture STOT E 3, H335 SECTION 4: First aid measures Explained STOT E 3, H335 First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the is where possible). Move the affected personnel away from the contaminated area. First-aid measures after inhalation : Remove person to frsh air and keep comotable for breathing, give respiration. Get immediate medical advice/attention. First-aid measures after eye contact : Wash with peny of soap and water. Get immediate medical advice/attention. First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact present and deay to do. Continue rinsing. Get immediate medical advice/attention. First-aid measures after ingestion : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. R mouth out with water. Get immediate medical advice/attention. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see s 2.2) and/or in sect							e	.1. Substance
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	breathe dust.	tilation. Do not bro	lequate air ver	nel. Ensure a	uate unnecessary person	: Evacu		
Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene.			1 1 1			<u> </u>		
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Safety Data Sheet

6.1.2. For emergency resp	onders
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental preca	utions
Avoid release to the environmer	t. Notify authorities if product enters sewers or public waters.
6.3. Methods and materia	al for containment and cleaning up
For containment	: Stop leak if safe to do so.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other s	ections
No additional information availal	ble
SECTION 7: Handling ar	nd storage
7.1. Precautions for safe	handling
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe s	torage, including any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Hygroscopic. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.

Storage area : Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties

.1. Information on basic physica	and chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 187 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=7) : No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 469.0394 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. **Other information**

No additional information available

SECTIO	ON 10: Stability and reactivity
10.1.	Reactivity
No additi	ional information available
10.2.	Chemical stability
The prod	luct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No additi	ional information available
10.4.	Conditions to avoid
Keep awa	ray from heat, sparks and flame.
10.5.	Incompatible materials
Strong ac	cids. Strong oxidizing agents.
10.6.	Hazardous decomposition products
Under no	ormal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of

fire, see Section 5.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity

: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

Hexafluoroacetylacetonato manganese(II) (19648-86-3)				
ATE US (oral)	500.000 mg/kg body weight			
ATE US (dermal)	1100.000 mg/kg body weight			
ATE US (gases)	4500.000 ppmV/4h			
ATE US (vapors)	11.000 mg/l/4h			
ATE US (dust, mist)	1.500 mg/l/4h			
Skin corrosion/irritation	: Causes skin irritation.			
Serious eye damage/irritation	: Causes serious eye damage.			
Respiratory or skin sensitization	: Not classified			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: Not classified			
Reproductive toxicity	: Not classified			
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.			
Specific target organ toxicity (repeated exposure)	: Not classified			
Aspiration hazard	: Not classified			

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECT	ION 12: Ecological information				
12.1.	Toxicity				
No addi	itional information available				
12.2.	Persistence and degradability				
No addi	itional information available				
12.3.	Bioaccumulative potential				
No addi	itional information available				
12.4.	Mobility in soil				
No addi	itional information available				
12.5.	Other adverse effects				
No addi	No additional information available				

SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.			
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.			
Additional information	: Recycle the material as far as possible.			

Department of Transportation (DOT)

SECTION 14: Transport information

In accordance with DOT Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

· · · · · ·		
Hexafluoroacetylacetonato manganese(II)	CAS No 19648-86-3	100%
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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 16: Other information

Full text of H-phrases:

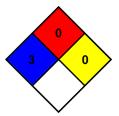
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation

NFPA	health	hazard
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: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard NFPA reactivity : 0 - Materials that will not burn.

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.