# Safety data sheet according to 1907/2006/EC, Article 31

CHEMICALS, INC.

SECTION 1:	Identification of the substance/mixture and of the company/undertaking
· 1.1 Product ide	ntifier
• Trade name: <u>Tr</u>	is(2,2,6,6-tetramethyl-3,5-heptanedionato)manganese(III), 99% [Mn(TMHD)3]
	5-5000 <b>ntified uses of the substance or mixture and uses advised against</b> ant information available.
v	e supplier of the safety data sheet Supplier: s, Inc. T, MA 01950
	ation obtainable from: Technical Department
EMERGENCY:	telephone number: CHEMTREC: + 1 (800) 424-9300 opening times: +1 (978) 499-1600
SECTION 2	Hazards identification
· Classification a	n of the substance or mixture ccording to Regulation (EC) No 1272/2008 s not classified according to the CLP regulation.
<ul> <li>Classification a The substance i.</li> <li>2.2 Label eleme</li> <li>Labelling according Hazard pictogra</li> <li>Signal word Vo</li> <li>Hazard stateme</li> <li>Precautionary s P262 P280</li> </ul>	<ul> <li>ccording to Regulation (EC) No 1272/2008</li> <li>a not classified according to the CLP regulation.</li> <li>nts</li> <li>ding to Regulation (EC) No 1272/2008 Void</li> <li>ums Void</li> <li>id</li> <li>nts Void</li> <li>tatements</li> <li>Do not get in eyes, on skin, or on clothing.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>838 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lense present and easy to do. Continue rinsing.</li> <li>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>Store in a well-ventilated place. Keep container tightly closed.</li> <li>Dispose of contents/container in accordance with local/regional/national/internati</li> </ul>
<ul> <li>Classification a The substance i.</li> <li>2.2 Label eleme</li> <li>Labelling accon</li> <li>Hazard pictogra</li> <li>Signal word Vo</li> <li>Hazard stateme</li> <li>Precautionary s P262 P280 P305+P351+P.</li> <li>P304+P340 P403+P233 P501</li> <li>2.3 Other hazar</li> </ul>	<ul> <li>cording to Regulation (EC) No 1272/2008</li> <li>a not classified according to the CLP regulation.</li> <li>nts</li> <li>ding to Regulation (EC) No 1272/2008 Void</li> <li>tms Void</li> <li>id</li> <li>nts Void</li> <li>tatements <ul> <li>Do not get in eyes, on skin, or on clothing.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> </ul> </li> <li>838 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lense present and easy to do. Continue rinsing.</li> <li>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>Store in a well-ventilated place. Keep container tightly closed.</li> <li>Dispose of contents/container in accordance with local/regional/national/internati regulations.</li> </ul> <li>ds <ul> <li>and vPvB assessment</li> <li>cable.</li> </ul></li>
<ul> <li>Classification a The substance i.</li> <li>2.2 Label eleme</li> <li>Labelling according Hazard pictogra</li> <li>Signal word Vo</li> <li>Hazard stateme</li> <li>Precautionary stateme</li> <li>P262 P280 P305+P351+P.</li> <li>P304+P340 P403+P233 P501</li> <li>2.3 Other hazard Results of PBT: Not applied</li> </ul>	<ul> <li>cording to Regulation (EC) No 1272/2008</li> <li>a not classified according to the CLP regulation.</li> <li>nts</li> <li>ding to Regulation (EC) No 1272/2008 Void</li> <li>tms Void</li> <li>id</li> <li>nts Void</li> <li>tatements <ul> <li>Do not get in eyes, on skin, or on clothing.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> </ul> </li> <li>838 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lense present and easy to do. Continue rinsing.</li> <li>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>Store in a well-ventilated place. Keep container tightly closed.</li> <li>Dispose of contents/container in accordance with local/regional/national/internati regulations.</li> </ul> <li>ds <ul> <li>and vPvB assessment</li> <li>cable.</li> </ul></li>
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<ul> <li>Classification a The substance i.</li> <li>2.2 Label eleme</li> <li>Labelling according</li> <li>Signal word Voide</li> <li>Hazard pictogray</li> <li>Signal word Voide</li> <li>Hazard stateme</li> <li>Precautionary signal</li> <li>P262</li> <li>P280</li> <li>P305+P351+P.</li> <li>P304+P340</li> <li>P403+P233</li> <li>P501</li> <li>2.3 Other hazardia</li> <li>Results of PBT</li> <li>PBT: Not applied</li> <li>vPvB: Not applied</li> <li>SECTION 3:</li> <li>3.1 Chemical cliptical</li> <li>CAS No. Description</li> </ul>	ccording to Regulation (EC) No 1272/2008 in not classified according to the CLP regulation. Its ding to Regulation (EC) No 1272/2008 Void tms Void id Ints Void id Ints Void tatements Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. 838 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lense present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/internati regulations. ds and vPvB assessment vable. cable. Composition/information on ingredients maracterisation: Substances ption (2,2,6,6-tetramethyl-3,5-heptanedionato)manganese(III),

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.07.2021

Revision: 16.07.2021

Trade name: Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)manganese(III), 99% [Mn(TMHD)3]

(Contd. of page 1)

#### **SECTION 4: First aid measures**

- 4.1 Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

#### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

#### **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13.
- · 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

#### **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling No special measures required.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

• Ingredients with limit values that require monitoring at the workplace: Not required.

• Additional information: The lists valid during the making were used as basis.

(Contd. on page 3)

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Printing date 16.07.2021

Revision: 16.07.2021

Trade name: Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)manganese(III), 99% [Mn(TMHD)3]

Cont. of pays 2)		
<ul> <li>Personal protective equipment:</li> <li>General protective equipment:</li> <li>The usual precautionary measures are to be adhered to when handling chemicals.</li> <li>Respiratory protection: Not required.</li> <li>Protection of hands:</li> </ul> Protective gloves Protective gloves The solution of the product of the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product the preparation. Due to missing tests no recommendation to the glove material can be given for the product the preparation. Due to missing tests no recommendation of the penetration times, rates of diffusion and the degradation • Material of gloves The selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves The selection of the substance/ the product and varies from manufacturer. • Penetration ime of glove material The selection of the substance of the substance/ the preparation. Puer test indicative to manufacturer. • Penetration ime of glove material The selection meanufacturer to manufacturer. • Penetration ime of glove material The selection: Stafety glasses • J. Information on basic physical and chemical properties • General Information • Appearance: <ul> <li>Form:</li> <li>Crystalline</li> <li>Colour:</li> <li>Black</li> <li>Odaur threshold:</li> <li>Not deplicable.</li> <li>• Change in condition</li> <li>Moti applicable.</li> <li>• Change in condition fungerse:</li> <li>25 °C</li> <li>• Thai ab loing romit:</li> <li>165 °C</li> <li>• Thia ib al oiling romit and boiling range:</li> <li>25 °C</li> <li>• Flash point:</li> <li>• Not applicable.</li> <li>• Change in condition fungerse:</li> <li>• Product is not flammable.</li> <li>• Jenition temperature:</li> <li>• Not determined.</li> <li>• Auto-ignition temperature:</li> <li>Not determin</li></ul>		(Contd. of page 2)
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.         Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.         Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation         • Material of gloves         The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.         • Penetration time of glove material         The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.         • Eye protection: Safety glasses         • 9.1 Information on basic physical and chemical properties         • General Information         • Appearance:         Form:       Crystalline         Colour:       Black         Odour threshold:       Not applicable.         • Change in condition       Mot applicable.         • Flash point:       Not applicable.         • Flash point:       Not determined.         • Jupicion temperature:       Not determined.         • Jupicion temperature:       Not determined.         • Jupicion temperature:       Not determined.         • General Information       Mot applicable.         • Flash point: <th><ul> <li>Personal protective equipment:</li> <li>General protective and hygienic measures are The usual precautionary measures are</li> <li>Respiratory protection: Not required.</li> </ul></th> <th></th>	<ul> <li>Personal protective equipment:</li> <li>General protective and hygienic measures are The usual precautionary measures are</li> <li>Respiratory protection: Not required.</li> </ul>	
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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.         Penetration time of glove material         The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.         Eye protection: Safety glasses         9.1 Information on basic physical and chemical properties         General Information         Appearance:         Form:       Crystalline         Colour:       Black         Odour threshold:       Not determined.         • Othour threshold:       Not applicable.         • Othour threshold:       Not applicable.         • Change in condition       Melting point/freezing point:         Melting point/freezing point:       165 °C         Initial boiling point and boiling range: 255 °C       *         • Flash point:       Not applicable.         • Flammability (sold, gas):       Product is not flammable.         • Jupicotion temperature:       Not determined.         • Auto-ignition temperature:       Not determined.         • Explosion limits:       Image: Not determined.         • Explosion limits:       Image: Not determined.         • Explosion limits:       Not determined.         • Wayour pressure:       Not de	Due to missing tests no recommendati chemical mixture. Selection of the glove material on cons	on to the glove material can be given for the product/ the preparation/ the
9.1 Information on basic physical and chemical properties         General Information         Appearance:         Form:       Crystalline         Colour:       Black         • Odour:       Undistinguishable.         • Odour:       Undistinguishable.         • Odour threshold:       Not determined.         • pH-value:       Not applicable.         • Change in condition       165 °C         Melting point/freezing point:       165 °C         Initial boiling point and boiling range: 255 °C          • Flash point:       Not applicable.         • Flammability (solid, gas):       Product is not flammable.         • Ignition temperature:       Not determined.         • Auto-ignition temperature:       Not determined.         • Explosive properties:       Product does not present an explosion hazard.         • Explosion limits:       Not determined.         Lower:       Not determined.         Vapour pressure:       Not applicable.         • Vapour pressure:       Not applicable.         • Auto-ignition temperature:       Not determined.         • Explosion limits:       Lower:         Lower:       Not determined.         • Vapour pressure:       Not applicable.	The selection of the suitable gloves doe varies from manufacturer to manufactu • <b>Penetration time of glove material</b> The exact break through time has to observed.	irer.
General InformationAppearance:Form:CrystallineColour:BlackOdour threshold:Not determined.• pH-value:Not applicable.• Change in condition Melting point/freezing point:165 °C Initial boiling point and boiling range:255 °C• Flash point:Not applicable.• Flash point:Not applicable.• Flammability (solid, gas):Product is not flammable.• Ignition temperature:Decomposition temperature:Not determined.• Explosion limits: Lower:Not determined.• Upper:Not determined.• Vapour pressure:Not determined.• Vapour pressure:Not determined.• Vapour densityNot determined.• Vapour densityNot determined.• Vapour densityNot determined.• Vapour densityNot applicable.	• • • • • •	
Form:CrystallineColour:BlackOdour:Undistinguishable.Odour threshold:Not determined.• pH-value:Not applicable.• Change in condition Melting point/freezing point:165 °C Initial boiling point and boiling range: 255 °C• Flash point:Not applicable.• Flash point:Not applicable.• Flammability (solid, gas):Product is not flammable.• Ignition temperature:Not determined.• Decomposition temperature:Not determined.• Explosive properties:Product does not present an explosion hazard.• Explosion limits: Lower: Upper:Not determined.• Vapour pressure:Not determined.• Vapour densityNot determined.• Vapour densityNot applicable.	· General Information	chemical properties
Colour:BlackOdour:Undistinguishable.Odour threshold:Not determined.• pH-value:Not applicable.• Change in condition Melting point/freezing point:165 °C Initial boiling point and boiling range: 255 °C• Flash point:Not applicable.• Flash point:Not determined.• Auto-ignition temperature:Not determined.• Explosive properties:Product does not present an explosion hazard.• Explosion limits: Upper:Not determined.• Vapour pressure:Not determined.• Vapour pressure:Not determined.• Vapour fuestingNot determined.• Vapour densityNot determined.• Vapour densityNot determined.		Crystalline
· Odour threshold:Not determined.· pH-value:Not applicable.· Change in condition Melting point/freezing point:165 °C 165 °C Initial boiling point and boiling range: 255 °C· Flash point:Not applicable.· Flash point:Not applicable.· Flammability (solid, gas):Product is not flammable.· Ignition temperature:Not determined.· Decomposition temperature:Not determined.· Explosive properties:Product does not present an explosion hazard.· Explosion limits: Lower: upper:Not determined.· Vapour pressure:Not applicable.· Density:Not determined.· Vapour densityNot determined.· Vapour densityNot determined.· Vapour densityNot determined.	Colour:	•
· pH-value:Not applicable.· Change in condition Melting point/freezing point:165 °C Initial boiling point and boiling range: 255 °C· Flash point:Not applicable.· Flash point:Not applicable.· Flammability (solid, gas):Product is not flammable.· Ignition temperature:Not determined.· Auto-ignition temperature:Not determined.· Explosive properties:Product does not present an explosion hazard.· Explosion limits: Lower: Upper:Not determined.· Vapour pressure:Not determined.· Vapour pressure:Not determined.· Vapour pressure:Not determined.· Vapour densityNot determined.· Vapour densityNot determined.· Vapour densityNot determined.· Vapour densityNot applicable.		8
• Change in condition Melting point/freezing point:       165 °C Initial boiling point and boiling range:         • Flash point:       Not applicable.         • Flash point:       Not applicable.         • Flammability (solid, gas):       Product is not flammable.         • Ignition temperature:       Not determined.         • Auto-ignition temperature:       Not determined.         • Explosive properties:       Product does not present an explosion hazard.         • Explosion limits:       Iower:         Iower:       Not determined.         • Vapour pressure:       Not applicable.         • Density:       Not determined.         • Vapour pressure:       Not determined.         • Vapour density       Not determined.         • Vapour density       Not determined.	· Odour threshold:	Not determined.
Meting point/freezing point:165 °C Initial boiling range:165 °C Initial boiling point and boiling range:255 °C• Flash point:Not applicable.• Flammability (solid, gas):Product is not flammable.• Ignition temperature:Not determined.• Decomposition temperature:Not determined.• Auto-ignition temperature:Not determined.• Explosive properties:Product does not present an explosion hazard.• Explosion limits: Lower: Upper:Not determined.• Vapour pressure:Not determined.• Density:Not determined.• Vapour densityNot determined.• Vapour densityNot determined.	· pH-value:	Not applicable.
• Flammability (solid, gas):       Product is not flammable.         • Ignition temperature:       Not determined.         Decomposition temperature:       Not determined.         • Auto-ignition temperature:       Not determined.         • Explosive properties:       Product does not present an explosion hazard.         • Explosion limits:       Image: Not determined.         • Lower:       Not determined.         • Vapour pressure:       Not applicable.         • Vapour pressure:       Not determined.         • Not determined.       Not determined.         • Vapour pressure:       Not determined.         • Vapour density       Not determined.	Melting point/freezing point:	
· Ignition temperature:       Not determined.         Decomposition temperature:       Not determined.         · Auto-ignition temperature:       Not determined.         · Explosive properties:       Product does not present an explosion hazard.         · Explosion limits:       Image: Not determined.         Lower:       Not determined.         Upper:       Not determined.         · Vapour pressure:       Not applicable.         · Density:       Not determined.         · Vapour density       Not determined.         · Vapour density       Not determined.	· Flash point:	Not applicable.
Decomposition temperature:Not determined.Auto-ignition temperature:Not determined.Explosive properties:Product does not present an explosion hazard.Explosion limits:Not determined.Lower:Not determined.Upper:Not determined.Vapour pressure:Not applicable.Density:Not determined.Kelative densityNot determined.Vapour densityNot applicable.	· Flammability (solid, gas):	Product is not flammable.
· Auto-ignition temperature:       Not determined.         · Explosive properties:       Product does not present an explosion hazard.         · Explosion limits:       Image: Comparison of the explosion hazard.         · Lower:       Not determined.         Upper:       Not determined.         · Vapour pressure:       Not applicable.         · Density:       Not determined.         · Relative density       Not determined.         · Vapour density       Not applicable.	· Ignition temperature:	
• Explosive properties:       Product does not present an explosion hazard.         • Explosion limits:       Not determined.         Lower:       Not determined.         Upper:       Not determined.         • Vapour pressure:       Not applicable.         • Density:       Not determined.         • Relative density       Not determined.         • Vapour density       Not applicable.	Decomposition temperature:	Not determined.
<ul> <li>Explosion limits: Lower: Not determined. Upper: Not determined.</li> <li>Vapour pressure: Not applicable.</li> <li>Density: Relative density Not determined. Not determined.</li> <li>Kelative density Not determined. Not applicable.</li> </ul>	• Auto-ignition temperature:	Not determined.
Lower:Not determined.Upper:Not determined.· Vapour pressure:Not applicable.· Density:Not determined.· Relative densityNot determined.· Vapour densityNot applicable.	· Explosive properties:	Product does not present an explosion hazard.
Upper:       Not determined.         · Vapour pressure:       Not applicable.         · Density:       Not determined.         · Relative density       Not determined.         · Vapour density       Not applicable.	· Explosion limits:	
· Vapour pressure:       Not applicable.         · Density:       Not determined.         · Relative density       Not determined.         · Vapour density       Not applicable.		
· Density:       Not determined.         · Relative density       Not determined.         · Vapour density       Not applicable.	Upper:	Not determined.
• Relative density     Not determined.       • Vapour density     Not applicable.	· Vapour pressure:	Not applicable.
• Vapour density Not applicable.		
· Evaporation rate Not applicable.		
	· Evaporation rate	<i>ואסו מףחוכמסו</i> פ.



# HEMICALS, INC.

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.07.2021

Revision: 16.07.2021

Trade name: Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)manganese(III), 99% [Mn(TMHD)3]

		(Contd. of page
· Solubility in / Miscibility with		
water:	Insoluble.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
VÕC (EC)	0.00 %	
Solids content:	100.0 %	
• 9.2 Other information	No further relevant information available.	

# **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- $\cdot$  10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- $\cdot$  Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- STOT-single exposure Based on available data, the classification criteria are not met.
- $\cdot \textit{STOT-repeated exposure Based on available data, the classification criteria are not met.}$
- · Aspiration hazard Based on available data, the classification criteria are not met.

# SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- $\cdot \textit{Additional ecological information:}$
- General notes: Not known to be hazardous to water.

(Contd. on page 5)

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(Contd. of page 4)

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

· 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation Disposal must be made according to official regulations.
- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number		
ADR, ADN, IMDG, IATA	not regulated	
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	not regulated	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	not regulated	
14.4 Packing group ADR, IMDG, IATA	not regulated	
14.5 Environmental hazards:		
Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Transport in bulk according to Ann	nex II of	
Marpol and the IBC Code	Not applicable.	
Marpol and the IBC Code	not applicable.	

## SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I Substance is not listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Technical Department.

· Contact: Technical Director

(Contd. on page 6)

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#### Trade name: Tris(2,2,6,6-tetramethyl-3,5-heptanedionato)manganese(III), 99% [Mn(TMHD)3]

#### · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic

*vPvB: very Persistent and very Bioaccumulative* 

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