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## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Product identifiers

Product Name : Manganese oxide, 97% Product Code: M 8901 CAS-No.: 1317-35-7

1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet
Company identification
OTTO CHEMIE PVT LTD
101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate,
Chinchpada, Vasai East, Waliv, Maharashtra 401208.
Email <u>info@ottokemi.com</u>

1.4. Emergency telephone number Phone no. : + 91 22 2207 0099 (9:00am - 6:00 pm)

### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture Reproductive toxicity, (Category2) H361d: Suspected of damaging the unborn child. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Warning Hazard Statements Suspected of damaging the unborn child. H361d Precautionary Statements Obtain special instructions before use. P201 P202 Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face P280 protection. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal plant. Supplemental Hazard none Statements 2.3 Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## **SECTION 3: Composition/information on ingredients**

3.1 Substances Synonyms : MnO.Mn2O3 Formula : Mn3O4 Molecular weight : 228,81 g/mol CAS-No. : 1317-35-7 EC-No. : 215-266-5 Component

Classification Concentration Trimanganese tetraoxide CAS-No. 1317-35-7 Repr. 2; H361d <= 100 % EC-No. 215-266-5

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

4.1 Description of first-aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled After inhalation: fresh air. Call in physician.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower. Consult a physician.

In case of eve contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact

lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section

2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

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

5.1 Extinguishing media Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given. 5.2 Special hazards arising from the substance or mixture Manganese/manganese oxides Not combustible. Ambient fire may liberate hazardous vapours. 5.3 Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. 5.4 Further information None

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

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

No special precautionary measures necessary.

6.3 Methods and materials for containment and cleaning up

Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of

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properly. Clean up affected area. Avoid generation of dusts. 6.4 Reference to other sections For disposal see section 13.

## SECTION 7: Handling and storage

7.1 Precautions for safe handling For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Tightly closed. Dry. Keep locked up or in an area accessible only to gualified or authorized persons. Storage class Storage class (TRGS 510): 11: Combustible Solids 7.3 Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated **SECTION 8: Exposure controls/personal protection** 8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses Skin protection This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L **Body Protection** protective clothing Respiratory protection required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P3 The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure No special precautionary measures necessary.

## **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties a) Physical state powder

 a) Filisical state
 powden

 b) Color
 brown

 c) Odor
 No data available

 d) Melting
 Melting point/freezing point: > 450 °C

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e) Initial boiling point and boiling range f) Flammability (solid,gas) g) Upper/lower flammability or explosive limits h) Flash point i) Autoignition temperature j) Decomposition temperature k) pH l) Viscosity

m) Water solubility A.6- slightly soluble n) Partition coefficient: n-octanol/water o) Vapor pressure p) Density Relative density q) Relative vapor density r) Particle characteristics s) Explosive properties t) Oxidizing properties 9.2 Other safety information No data available

#### **SECTION 10: Stability and reactivity**

10.1 Reactivity
No data available
10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature).
10.3 Possibility of hazardous reactions
Violent reactions possible with:
Strong oxidizing agents
10.4 Conditions to avoid
no information available
10.5 Incompatible materials
No data available
10.6 Hazardous decomposition products
In the event of fire: see section 5

# SECTION 11: Toxicological information

11.1 Information on toxicological effects Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals: Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant). Special Remarks on Toxicity to Animals: Not available. Special Remarks on Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

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#### No data available

No data available No data available

Not applicable No data available

No data available

No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available ca.0,00079 g/l at 20 °C - Regulation (EC) No. 440/2008, Annex,

Not applicable for inorganic substances

No data available 4,8 g/cm3 at 25 °C - lit. 4,79 at 22 °C - Regulation (EC) No. 440/2008, Annex, A.3

No data available

No data available none

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# **SECTION 12: Ecological information**

SECTION 12: Ecological information		
12.1 Toxicity		
Toxicity to fish semi-static test LC50 - 0	Oncorhynchus mykiss (rainbow tro	out) - > 100
mg/l - 96 h		
(OECD Test Guideline 203)		
Toxicity to daphnia		
and other aquatic		
invertebrates		
static test EC50 - Daphnia magna (Wa	ter flea) - > 100 mg/l - 48 h	
(OECD Test Guideline 202)	,	
Toxicity to algae static test ErC50 - De	smodesmus subspicatus (green al	lgae) - > 100
mg/l - 72 h		
(OECD Test Guideline 201)		
Toxicity to daphnia		
and other aquatic		
invertebrates(Chronic		
toxicity)		
semi-static test NOEC - Daphnia magr	a (Water flee) 100 mg/l 21d	
(OECD Test Guideline 211)	ia (Water fiea) - 100 filg/i - 210	
12.2 Persistence and degradability		
The methods for determining biodegrad	dahility are not applicable to inorga	
12.3 Bioaccumulative potential	dability are not applicable to morga	anic substances.
No data available		
12.4 Mobility in soil		
No data available		
12.5 Results of PBT and vPvB assessi	mant	
This substance/mixture contains no co		poreistant
bioaccumulative and toxic (PBT), or ve		
levels of 0.1% or higher.	iy persistent and very bloaccumula	
12.6 Endocrine disrupting properties		
Product:	loes not contain components	
Product: Assessment : The substance/mixture of		
Product: Assessment : The substance/mixture c considered to have endocrine disruptin	ig properties	
Product: Assessment : The substance/mixture c considered to have endocrine disruptin according to REACH Article 57(f) or Co	g properties	
Product: Assessment : The substance/mixture c considered to have endocrine disruptin according to REACH Article 57(f) or Co Delegated regulation (EU) 2017/2100 of	ng properties commission for Commission	
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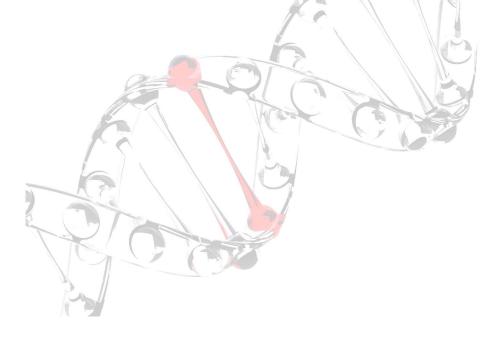
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## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Other regulations
Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.
Take note of Dir 94/33/EC on the protection of young people at work.
15.2 Chemical Safety Assessment
For this product a chemical safety assessment was not carried out

## Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.



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