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## SECTION 1 - CHEMICAL PRODUCT AND IDENTIFICATION

Product Name:	MN Ore Fines
Trade Name:	Maco Corporation India Pvt. Ltd. 7 <sup>th</sup> Floor, 7A, Sukh Sagar, 2/5 Sarat Bose Road, Bhawanipur, Kolkata, West Bengal, Pin – 700020
Mob. Number:	9830024850
Email:	opatel@macocorporation.com
Visit us at:	www.macocorporation.com

## Section 2 - HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture Classification (EC 1272/2008) : Physical and chemical hazards: not classified. Human Health: not classified Environment: not classified

The full text for all R-Phrases and hazard statements are displayed in section 16.

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# SECTION 3: Composition/information on ingredients

## 3.1 Substances

Material	Chemical Ar (%)		-		Physical Analysis (%)	_	
	MnO	SiO2	+ 6mm	+ 3 mm	-3mm	-1mm	Bulk Density (approx.)
Mn Ore fines	30.69	26.46		60.06	39.94		0.6 to 0.8

## SECTION 4: First aid measures

## 4.1 Description of first aid measures

•	Description of hist aid measures	
	Inhalation:	Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
	Ingestion:	Rinse mouth thoroughly. Get medical attention if any discomfort continues.
	Skin contact	Wash skin with soap and water. Get medical attention if irritation persists after washing.
	Eye contact:	Make sure to remove any contact lenses from the eyes before rinsing. Rinse eye with water
		immediately. Get medical attention if any discomfort continues.

#### 4.2 Most important symptoms and effects, both acute and delayed

Inhalation: Ingestion:	Dust may irritate the respiratory system. No specific symptoms noted.
Skin contact	Prolonged exposure may cause skin irritation.
Eye contact:	Dust may irritate the eyes.

#### **4.3 Indication of any immediate medical attention and special treatment needed** Treat symptomatically

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# SECTION 5: Firefighting measures

5.1 Extinguishing media

This product is not flammable. Use fire extinguishing media appropriate for surrounding materials.

- 5.2 Special hazards arising from the substance or mixture Hazardous combustion products: None under normal conditions
- **5.3 Advice for firefighters** Special fire-fighting procedures:

No specific fire-fighting procedures given

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# SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Follow precautions for safe handling described in this safety data sheet

6.2 Environmental precautions and delivered

The product should not be dumped in nature but collected

According to agreement with the local authorities. Entry into watercoursesshould be avoided

### 6.3 Methods and material for containment and cleaning up

Avoid dust formation. Water spray to prevent airborne dust where possible. Avoid dry sweeping which creates dust if possible. Transfer to a container fordisposal.

6.4 Reference to other sections see section 13.

For personal protection see section 8. For waste disposal

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

7.1 Precautions for safe handling contact with skin and

Avoid handling which leads to dust formation. Avoid

eyes. Observe occupational exposure limits and minimize the risk of inhalation of dust. Use appropriate PPE. Handle in accordance with good industrial hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

May be stored in piles, does not require covered storage. If stored in stockpile at dry and windy weather keep slags moist to avoid dust formation. Keep awayfrom food and drinking water.

7.3 Specific end use(s) 1.2

The identified uses for this product are detailed in section

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# SECTION 8: Exposure controls / personal protection

## 8.1 Control parameters

Name	STD	TWA – 8hrs		STEL – 15mins	Notes
Dust		4 mg/m <sup>3</sup> respirable dust	10 mg/m³ total dust		

WEL = Workplace Exposure Limit

## 8.2 Exposure controls

Protective equipment



Engineering measures:

Respiratory equipment: protection must be used if

Hand protection: Eye protection:

Other protection: Hygiene measures: Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust. No specific recommendation made, but respiratory

The general level exceeds the recommended occupational exposure limit. Wear dust masks (FFP2 according the EN149) in dusty areas. Wear protective gloves. Wear eye protection with side protection (standard EN166 Eye Protection)where there is a danger of eye contact. Provide eyewash station. Wash hands at the end of each work shift and before eating, smoking andusing the toilet.

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

## 9.1 Information on basic and physical and chemical properties

Appearance:	Dust, granules (grain size 0 – 6.3mm)
Colour:	Grey-brown
Odour:	Odourless
Melting Point:	>1000°C
Solubility:	<1gl-1; not soluble in organic solvents
Relative Density:	@2.4- 3 gcm <sup>-3</sup>
Bulk Density:	0.6 to 0.8 gcm <sup>-3</sup>
pH-Value:	10-12
9.2 Other information	Not relevant

# SECTION 10: Stability and reactivity

10.1 Reactivity	No specific reactivity hazards associated with this product.
10.2 Chemical stability	Stable under normal temperature conditions.
10.3 Possibility of hazardous reactions	Not relevant
10.4 Conditions to avoid	Avoid generation of dust.
<b>10.5 Incompatible materials</b> Materials to avoid:	Acids.
10.6 Hazardous decomposition products decomposition	Under normal conditions of storage and use, hazardous
·	Products should not be produced

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# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

1.1 Information on toxicological effects	
Acute toxicity:	Not classified
Acute toxicity (Oral LD50):	Not classified (OECD Guideline
401)Acute toxicity (Dermal LE	050): Not classified (OECD
Guideline 402) Acute toxicity	(Inhalation LC50): Not classified
(OECD Guideline 403)	
Skin corrosion/irritation:	Not irritating (OECD Guideline 404)
Serious eye damage/irritation:	Not irritating. (OECD Guideline 405)
Skin sensitization:	Not sensitizing. (GLP guideline study)
Respiratory sensitization:	Not sensitizing. No data available.
Germ cell mutagenicity:	Not classified. (EU Method B.17 and OECD Guideline 474)
Carcinogenicity:	Not classified. (There is no evidence that the product can cause cancer)
Reproductive toxicity: reproduction)	Not classified (This substance has no evidence of toxicity to
STOT-single exposure:	Not classified as a specific target organ toxicant after a single
exposure STOT- repeated exposure:	Not classified as a specific target organ toxicant after repeated
exposureAspiration hazard: based on	Not classified (Not anticipated to present an aspiration hazard,

chemical structure)

## SECTION 12: Ecological information

12.1	Toxicity:	Not classified (OECD TG 201, 202, 203, 211)
12.2	Persistence and degradability	Not relevant.
12.3	Bio accumulative potential:	No significant accumulation.
12.4	Mobility in soil:	Not relevant, due to the form of the product.
12.5	Results of PBT and vPvB assessment:	No data available.

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12.6 Other adverse effects:

None known

# SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Dispose of waste and residues in accordance with local authority requirements.

# **SECTION 14: Transport considerations**

Road transport notes: Rail transport notes: Sea transport notes: Air transport notes:		Not classified Not classified Not classified Not classified	
14.1	UN Number:	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).	
14.2	DOT/IMO Label:	NA	
14.3	UN proper shipping name:	Not classified for transportation.	
14.4	Transport and hazard class (es):	Not classified for transportation.	
14.5	Packing group:	Not classified for transportation.	
14.6	.6 Environmental hazards Environmentally hazardous substances / marine pollutant: no		
14.7	Special precautions for user:	Not classified for transportation.	

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# **SECTION 14: Transport considerations**

14.1 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable



# **SECTION 15: Regulatory information**

### **15.1** Safety, health and environmental regulations / legislation specific for the substance or mixture Approved code of practice: Classification and labelling of substances and preparation

Classification and labelling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.

Guidance notes:

EU Legislation:

Workplace Exposure Limits EH40.

Regulation (EC) No 1907/2006 of the European Parliament and of the Councilof 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulations (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

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Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

#### 15.2 Chemical Safety Assessment:

Not applicable. No chemical safety assessment has been carried out.

## **SECTION 16: Other information**

Revision date: Revision: Document no: Risk phrases in full: 23/06/2020 2 12-02EN,20-06 NC – not classified OECD – Organization for Economic Co-operation and DevelopmentSTOT – Specific Target Organ Toxicity TG – Test Guidelines

Prepared By: Q.C. Executive

Approved By: Q.C. Manager

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