MATERIAL SAFETY DATA SHEET SUBSTANCE: - MAGNETITE FE304

	Supplier Details				
Supplier Name	phoenix amalgams pvt. Itd.	Emergency Telephone	+919823033705 +917798777721		
Address	N-39, MIDC, Hingna, NAGPUR 440016 INDIA	Email	paplnagpur@gmail.com info@phoenixamalgams.com		
Person Responsible for updating MSDS	Manager Environment & Occupational Hygiene	URL	www.phoenixamalgams.com		

1. Product Information

IRON OXIDE [MAGNETITE]	EC Number : 215-169-8
CAS No : 1309-38-2	REACH Registration Number : Exempt

2. Data Composition

Name	IRON OXIDE [Magnetite]
Chemical Formula	Fe304
Density	4.80 – 5.1

3. Physical & Chemical Properties

Boiling point	NA	Vapor pressure	1mm HG 20°C
Appearance	Black powder	Evaporation	NA
		Rate	
Odour	Odourless	Incompatibility	None
Chemical	Stable	% by weight	100%
properties	Substances		
Solubility in water	Insoluble	Melting point	2550 - 2900 F
Molecular Weight	231.53	pH	6-8 [in aqueous
_			suspension]

4. Stability & Reactivity

Reactivity	No Specific Reactivity Hazards associated with this
	product.
Chemical stability	Stable under normal temperature conditions.
Possibility of hazardous	Not relevant
reactions	
Conditions to avoid	No specific conditions are likely to result in a hazardous
	situation.
Incompatible materials	No specific or groups of materials are likely to react to
Materials to avoid	produce a hazardous situation.
Hazardous decomposition	None under normal circumstances.
products	
Hazardous polymerization	Will not occur.

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	5. Hazardous identification	
Emergency	Black powder may irritate respiratory tract.	
Overview		
Route (s) of Entry	Inhalation and ingestion.	
Acute Exposure	Not expected to be irritating to eyes and skin and essentially non- toxic by ingestion.	
Chronic Exposure	Prolonged, frequent and excessive exposure may result in siderosis (accumulation of iron within the lungs).	
Carcinogenicity	No	
(NTP)		
(IARC) (OSHA)		
Eye	Dust may irritate eyes through mechanical action.	
Skin contact	May irritate through mechanical action.	
Inhalation	May be irritating to the nose, throat and respiratory tract.	
Ingestion	None Expected	
Sign and symptoms	Irritation of nose, throat and respiratory tract which may result in sneezing, coughing and running nose.	
Carcinogenicity	This product is not listed as carcinogens by NTP, IARC, OSHA or ACGIH as magnetic.	
Agency's	Osha : Occupational Safety & Health Administration; TSCA Toxic Substances Control Act ; CERCLA : Comprehensive Environmental Response Compensation and Liability Act, NTP National Toxicology Program; IARC : Internation Agency for Research on Cancer; ACGIH : American Conference of Government Industrial Hygienist; RCRA : Resource Conservation and Recovery Act.	

5. Hazardous Identification

6. First Aid Measures

Check for and remove any contact lenses. Immediate flush eyes with	
running water for at least 15 minutes, keeping eyelids open. Cold	
water may be used.	
After contact with skin, wash immediately with plenty of water.	
Gently and thoroughly wash the contaminated skin with running	
water and non-abrasive soap. Cold water may be used. Cover the	
irritated skin with an emollient. If irritation persists, seek medical	
attention.	
t Wash with a disinfectant soap and cover the contaminated skin with	
an anti- bacterial cream. Seek medical attention.	
Allow the victim to rest in a well- ventilated area. Seek medical	
attention.	
Evacuate the victim to a safe area as soon as possible. Loosen tight	
clothing such as a collar, tie, belt or waistband. Seek medical	
attention.	
Do not induce vomiting. Loosen tight clothing such as a collar, tie,	
belt or waistband. Seek immediate medical attention.	
Not Available	

7. Fire measurers & explosion data

Flammability of the product	Non- Flammable
Auto-Ignition Temperature	Not Applicable. Flash points : Not
	applicable
Flammable limits	Not applicable
Products of Combustion	Not available
Fire hazardous in presence of Various	Not applicable
substances	
Explosion Hazards in presence of various	Not Applicable
Substances	
Risks of explosion of the product in	Not available
presence of mechanical impact	
Risks of explosion of the product in	Not available
presence of static discharge	
Fire Fighting media and Instructions	Not applicable. Special Remarks on fire
	Hazards not available
Special Remarks on explosion Hazards	Not available

8. Accidental Release Measures			
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container.		
Large spill	Stop leak. Prevent entry into sewers, basements or confined		
	areas.		
194	Call for assistance on disposal.		
Personal precaution,	Follow precaution for safe handling described in this safety		
productive equipment and	data sheet.		
emergency procedures			
Environmental precaution	The product should not be dumped in nature but collected and		
	delivered according to agreement with the local authorities.		
Methods and material for	Avoid dust formation. Remove spillage with vacuum cleaner.		
containment and cleaning	If not possible collect spillage with shovel, broom or the like.		
up	Transfer to a container for disposal.		
Reference to other sections	ns For personal protection see section 6 & for waste disposal see		
	section 13.		

8. Accidental Release Measures

9. Handling & Storage

Work Practices and Hygienic	Avoid contact with eyes and ingestion. Make sure that work areas have some form of ventilation or fresh air available.
Practices :	
Storage and handling	Store and handle in accordance with all current regulation and standards, store outside or in a detached building. Avoid crating dust, contact with
Practices	eye, skin and clothing.

10. Exposure Control / Personal Protection

Exposure Limits/Guidelines

Chemical Name	CAS#	ACGIH TWA	OSHA TWA	SWA	NIOSH
Magnetite,	1309-38-2	5mg/m3	6mg/m3	Not Listed	5mg/m3
Ventilation and	Use with	Use with adequate ventilation to ensure exposure levels are maintained			
Engineering		below exposure limits. Use local exhaust ventilation to control airborne			
Controls	dust. Ens	dust. Ensure eyewash stations are available near where this material is			
	used.	used.			
Respiratory	A NIOSH	A NIOSH approved air purifying respirator with approved cartridge or			
Protection	canister 1	canister may be appropriate under extreme circumstances where air			
	borne con	borne concentrations are expected to exceed exposure limits.			
Eye Protection	Wear app	Wear appropriate splash resistant safety glasses.			
Hand Protection	Wear app	Wear appropriate chemical resistant gloves.			
Body Protection	Wear app	Wear appropriate chemical resistant clothing.			

11. Toxicological Information

Routes of entry	Absorbed through skin. Dermal contact, Eye		
	contact, Inhalation, Ingestion.		
Toxicity to animals	Not Available		
RAT LD 50			
LC 50	Not considered to be a carcinogen by		
	ACGIH, IARC, NTP, OSHA, MSHA, CA Prop65		
Chronic Effects on Humans	Not Available		
Other Toxic effects on Humans	Not Available		
Special remarks on Toxicity to animals	Not Available		
Special remarks on Chronic effects on	Not Available		
humans			
Special remarks on other Toxic effects on	Not Available		
Humans			

12. Ecological Data

	0		
Ecotoxicity	Not regarded as dangerous for the		
	environment. No harmful effects on human,		
	and is not toxic to fauna and flora. Non-		
	harmful to the marine environment.		
BOD5 and COD :	Not available		
Products of Biodegradation	Not available		
Toxicity of the products of	Not Available		
Biodegradation			
Special remarks on products of	Not Available		
Biodegradation			

13. Disposal consideration

Waste disposal	Waste must be disposal of in accordance with local environment control
	regulations & the local authorities.

14. Transport

DOT Classification	Not classed as Hazardous
Road Transport	Not classed as Hazardous
ADR/RID and GGVS/GGVE	UN-No: None / None Regulated
Sea Transport	UN-No: None / None Regulated
IMDG/GGV See	
Air Transport	UN-No: None / None Regulated
TCAO/IATA	

15. Regulatory Information

Risk Phrase R36/R 37/R38	Irritating to eyes, respiratory system and skin.
Safety phrase S26	In case of contact with eyes, rinse immediately with plenty of
	water.
Regulatory information	According to OSHA 29 CFR 1910.1200 Iron Oxide is Not
	"Extremely Hazardous or Toxic". Values are given for
	permissible exposure limits and threshold values for dusting
	and fumes. There are no toxic chemicals under SARA title iii
	section 313. This product is listed on TSCA inventory. This
	product has no reportable quantities (RQ) under CERCLA. It
	is not considered a hazardous waste under CERCLA or
	RCRA. This product in not listed on the Hazardous materials
	HM 181. Iron oxide does not appear on the Hazardous
	Substances List.

16. Disclaimer

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