

Material Safety Data Sheet

1 Identification of the substance/preparation and of the company/undertaking

.Product details

.Trade name: Anti- Radiation Coatings

.Application of the substance: Anti-radiation

.Manufacturer/Supplier: Anhui PMA Investment Co.,Ltd

Room 909-913, Building A. Second Stage. Fortune Square No.278 Sui xi Road, Hefei City, Anhui Province, PRC

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.Information in case of emergency: Anhui PMA Investment Co.,Ltd

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.Contact: Danny Pan

2 Composition/information on ingredients

.Description: Mixture of substances listed below with additions

.Components Name:	CAS No.	Weight Percent (%)
Graphite powder	7782-42-5	15~21%
Ferrite powder	-- -- --	10~14%
Carboxymethyl cellulose	9004-32-4	0.4~1.1%
Potassium silicate	1312-76-1	5~15%
Styrene-acrylic resin	-- -- --	8~14%
Ammonium hydroxide	1336-21-6	0.4~0.9%
Aqua(Water)	7732-18-5	25.6~34.5%

3 Hazards identificatio

.NFPA ratings (scale 0 - 4)



Health = 1; Fire = 0; Reactivity = 0

.HMIS-ratings (scale 0 - 4)

HEALTH	1
FIRE	0
REACTIVITY	0

Health = 1; Fire = 0; Reactivity = 0



.Hazard description:

Xi:Irritant
Xn:Harmful

.Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

.Routes of Entry: Eye contact, Ingestion.

.Potential Acute Health Effects:

.Eyes: Slightly hazardous by the following route of exposure: of eye contact (irritant) .

.Skin: No known acute effects of this product resulting from skin contact ,but it will irritant the damaged skin ,
However in light of good industrial hygiene, exposure to any chemical should be kept to a minimum.

.Inhalation: The volatile smell have a small amount of inhaled will be no risk to human , Much Inhalation will lead
dizziness, nausea, etc.

.Ingestion: The product is expected not a toxic to Ingestion. But directly swallowing the product is easy to irritate the
digestive system and will lead abdominal pain, diarrhea etc,and harmful if swallowed.

.Potential Chronic Health Effects:

.CARCINOGENIC EFFECTS: Not available.

.MUTAGENIC EFFECTS: Not available.

.TERATOGENIC EFFECTS: Not available.

.Medical Conditions Aggravated by Overexposure: There is no known effect from chronic exposure to this product. Repeated
or prolonged exposure is not known to aggravate any medical condition.

.Overexposure/ Signs/ Symptoms: No information available.

4 First aid measures

.After inhalation: If there have unwell feeling, supply fresh air; consult doctor in case of complaints.

.After skin contact: Timely wash with water and soap and rinse thoroughly.

.After eye contact: Immediately flush eyes with plenty of water for a few minutes, occasionally lifting the
upper and lower eyelids. If the symptoms can not be eased Get medical aid immediately.

.After swallowing: Gargle with water ,and to drink enough water or milk to emetic ,If symptoms persist consult doctor.

5 Fire-fighting measures

Protective equipment: Wear fully protective suit. Mouth respiratory protective device.Do not inhale explosion gases
or combustion gases.

.Extinguishing Media: CO2, sand, extinguishing powder...

.Flash point: Not Determined.

.Auto ignition Temperature: Not Applicable.

.Special fire & explosion hazards: None.

.Exiting using media: Dry Chemical, Carbon Dioxide, and Foam.

.Unusual Fire or Explosion Hazards: None.

6 Accidental release measures

- .Person-related safety precautions: Wear protective equipment.*
- . Measures for environmental protection: Do not allow much product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.*
- .Measures for cleaning/collecting*
- .Small leak: Mix absorb leaked material with (sand, diatomite, sawdust) then Cleaning and placed into a suitable container handling, and scrub the area with towel and water.*
- .Much leak: Isolation accident area to prevent the leak products to be contaminated ,And then to recycling collection the leak products..*

7 Handling and storage

- .Information for safe handling: Store in cool, dry place in tightly closed receptacles. Ensure good ventilation/exhaustion at the workplace.*
- .Information about fire - and explosion protection: Keep ignition sources away , Do not smoke.*
- .Requirements to be met by storerooms and receptacles: Store in a cool location.*
- .Information about storage in one common storage facility: Store away from flammable substances.*
- .Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.*

8 Exposure controls/personal protection

- .Ventilation and Engineering controls: No special ventilation and engineering controls are required.*
- .Respiratory Protection: No special respiratory protection is required for use of these products. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHS Standard, applicable U.S. State regulations, or the Canadian CSA standard.*
- .Body Protection: General protective clothing.*
- .Protective Gloves: Unnecessary, If use choose Rubber or plastic acid-resistant gloves with elbow-length gauntlet.*
- .Eye Protection: Unnecessary , When necessary wear chemical goggles or face shield.*

9 Physical and chemical properties

<i>.General Informatio</i>	
<i>Form:</i>	<i>Liquid</i>
<i>Color:</i>	<i>Black</i>
<i>Odor:</i>	<i>Odorless</i>
<i>.Change in condition</i>	
<i>Melting point/Melting range:</i>	<i>≤0 °C (Estimate)</i>
<i>Boiling point/Boiling range:</i>	<i>≥100 °C (Estimate)</i>
<i>.Flash point:</i>	<i>Not available</i>
<i>.Self-igniting:</i>	<i>Not</i>
<i>.Danger of explosion:</i>	<i>Product does not present an explosion hazard</i>
<i>.Density:</i>	
<i>.Relative density:</i>	<i>Not available</i>
<i>.Vapor density:</i>	<i>Not available</i>
<i>.Evaporation rate</i>	<i>Not available</i>

.Solubility in/Miscibility with	
Water:	Soluble
.PH-Value: Not available	
.Viscosity:	
Dynamic:	Not available

10 Stability and reactivity

.Chemical Stability: The product is stable.

.Hazardous Decomposition Products: The following combustion products may be generated: carbon dioxide, carbon monoxide, water vapor, nitrogen oxides and ammonia fumes and other irritant and toxic gases.

.Hazardous Polymerization: Hazardous polymerization will not occur.

11 Toxicological information

.Toxicity to Animals:

LD50: Not available.

LC50: Not available.

.Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified NONE by NTP, NONE by OSHA. 3 (Not classifiable for human.) by IARC.

.Other Toxic Effects on Humans: None

.on the skin: Irritating effect possible

.on the eye: Irritating effect possible

.Carcinogenicity: Not available.

.Mutagenicity: Not available.

.Teratogenicity: Not available.

12 Ecological information

.Information about elimination (persistence and degradability): Removable from water.

.Mobility and bioaccumulation potential: Not available

.Ecotoxicological effects: Harmful to aquatic organisms.

.Aquatic toxicity: Not available

.General notes: Water hazard class 1 (German Regulation) (Self-assessment): Slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

.Product: Must be disposed of in accordance with applicable Federal, state and local regulations.

.Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

.Uncleaned packaging: Recommendation Disposal must be made according to official regulations.

14 Transport information

.DOT Classification for Bulk Shipments (non bulk shipments may differ): Not a DOT controlled material (United States).

.DOT Proper Shipping Name: Not applicable.

.UN Number: Not applicable.

- .Packing Group: III.*
- .Marine Pollutant: Yes.*
- .Hazardous Substance Reportable Quantity: Not available.*
- .Special Provisions for Transport: Not applicable.*
- .ADR/RID Classification: Not controlled under ADR(Europe)*
- .ICAO/IATA Classification: Not controlled under IATA.*

15 Regulatory information

- .HCS Classification: This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.*
- .U.S. Federal Regulation*
- .TSCA inventory: All components are listed or exempted.*
- .SARA 301/302/303: No chemicals in this product are listed as extremely hazards substances in 40 CFR 355, Emergency Planning And Notification*
- .SARA 304: No chemicals in this product require reporting under the requirement of 40 CFR 355, Emergency Planning And Notification(SARA extremely hazardous substances listed in Appendix A to Part 355 or CERCLA hazardous substances listed in Table 302.4 of 40 CFR Part 302).*
- .SARA 313: This product contains no chemicals in excess of the applicable de minimis concentration that are 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 (Table 372.65).*
- .European/International Regulations: European Labeling in Accordance with EC Directives, Hazard Symbols(Xi,Xn)*
- . Risk phrases:*
 - 22 Harmful by swallowed.*
 - 36/37/38 Irritating to eyes, respiratory system and skin.*
- . Safety phrases:*
 - 2 Keep out of the reach of children.*
 - 25 Avoid contact with eye.*
 - 46 If swallowed, seek medical advice immediately and show this container or label.*

16 Other information

The contents and format of this MSDS are in accordance with ISO Commission Directive ISO11014-1:1994.

DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handing, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may be applicable.

- .Emergency Telephone Number: +86-551-5666 128*
- .Department issuing MSDS: Anhui PMA Investment Co.,Ltd*
- .Contact: Danny Pan*

*****The End*****