

SAFETY DATA SHEET

PHOS-4-FADE[®] ADSORPTIVE MEDIA

EMERGENCY TELEPHONE: (800) 424-9300

DATE PREPARED: JANUARY 2021

I. PRODUCT AND COMPANY IDENTIFICATION

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| PRODUCT NAME | Phos-4-Fade [®] Adsorptive Media |
| CHEMICAL NAME | Aluminum Oxide |
| CHEMICAL ABSTRACT SERVICE NO. | CAS #1344-28-1 |
| CHEMICAL FAMILY | Aluminum Oxide |
| FORMULA | Al ₂ O ₃ • nH ₂ O |
| SUPPLIER | Norweco, Inc. 220 Republic St. Norwalk, OH U.S.A. 44857 |
| EMERGENCY TELEPHONE NUMBER | (800) 424-9300 |
| TECHNICAL PHONE NUMBER | (800) NORWECO, (800) 667-9326 |

II. HAZARDOUS IDENTIFICATION

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| EMERGENCY OVERVIEW | Product dust may be irritating to eyes. |
| POTENTIAL ACUTE HEALTH EFFECTS | |
| INHALATION | Not available |
| INGESTION | No hazards anticipated |
| SKIN | Not available |
| EYES | Dust may irritate or burn eyes. |
| OVER EXPOSURE SIGNS/SYMPTOMS | |
| INHALATION | Not available |
| INGESTION | Not available |
| SKIN | Not available |
| EYES | Adverse symptoms may include the following: irritation or burning |
| MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE | Not available |

III. CONSUMPTION/INFORMATION ON INGREDIENTS

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|-------------------|---------|
| ALUMINUM OXIDE | ≥ 92% |
| SODIUM OXIDE | ≤ 0.4% |
| SILICATE DIOXIDE | ≤ 0.3% |
| IRON OXIDE | ≤ 0.02% |
| INERT INGREDIENTS | ≤ 7.28% |

THERE ARE NO ADDITIONAL INGREDIENTS PRESENT, WITHIN THE CURRENT KNOWLEDGE OF THE SUPPLIER AND IN THE CONCENTRATIONS APPLICABLE THAT ARE CLASSIFIED AS HAZARDOUS TO HEALTH OR THE ENVIRONMENT AND HENCE REQUIRE REPORTING IN THIS SECTION.

IV. FIRST AID PROCEDURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

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| EYE CONTACT | Flush immediately with water for 15 minutes. If easy to do, remove contact lenses. Seek medical attention. |
| SKIN CONTACT | Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists. |
| INHALATION | Remove victim to fresh air. |
| INGESTION | No hazards anticipated. If large quantities are ingested, seek medical attention. |
| NOTE TO PHYSICIAN | No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |

V. FIRE-FIGHTING MEASURES

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| FLAMMABILITY OF THE PRODUCT | Product is not flammable. |
| EXTINGUISHING MEDIA | |
| SUITABLE | Use any fire fighting agent appropriate for surrounding material; use water spray to cool fire-exposed surfaces. |
| NOT SUITABLE | Not applicable |
| SPECIAL EXPOSURE HAZARDS | None |
| HAZARDOUS COMBUSTION PRODUCTS | None |
| SPECIAL FIREFIGHTING PROCEDURES | NIOSH/MSHA - Approved, positive pressure, self-contained breathing apparatus with full face piece. |

VI. ACCIDENTAL RELEASE MEASURES

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| PERSONAL PRECAUTIONS | Wear appropriate personal protective equipment if required. |
| ENVIRONMENTAL PRECAUTIONS | None |
| LARGE SPILL | Vacuum up spilled product and place in a container for disposal or reproduction. |
| SMALL SPILL | Vacuum up spilled product and place in a container for disposal or reproduction. |
| REFERENCE TO OTHER SECTIONS | See Section I for emergency contact information. See Section VIII for information on appropriate personal protective equipment. See Section XIII for additional waste treatment information. |

VII. HANDLING AND STORAGE

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| HANDLING | Avoid dust formation in confined area. Avoid contact with the skin, eyes and clothing. Ensure adequate ventilation. |
| STORAGE | Keep container tightly closed in a cool, dry and well-ventilated place. |

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONSULT LOCAL AUTHORITIES FOR ACCEPTABLE EXPOSURE LIMITS

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|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RECOMMENDED MONITORING PROCEDURES | Per OSHA no permissible exposure limits have been established. |
| ENGINEERING MEASURES | Provide a local exhaust ventilation to control dust and maintain recommended P.E.L. |
| HYGIENE MEASURES | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION - continued

PERSONAL PROTECTION

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|-------------|-------------------------------------------------------------------------------------------|
| EYES | Safety glasses with side shields |
| HANDS | Chemical resistant gloves should be worn |
| GLOVES | Natural or synthetic rubber |
| RESPIRATORY | Wear NIOSH/MSHA approved particulate respirator following manufacturer's recommendations. |
| SKIN | Boots, aprons or chemical suits as required to prevent skin contact. |

ENVIRONMENTAL EXPOSURE CONTROLS

None

IX. PHYSICAL AND CHEMICAL PROPERTIES

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|----------------------------|--------------------------|
| PHYSICAL STATE | Granular beads |
| FLASH POINT | Non-flammable |
| COLOR | White |
| ODOR | Odorless |
| pH | 9.4 - 10.1 |
| BOILING/CONDENSATION POINT | 2980°C |
| MELTING/FREEZING POINT | 2050°C |
| BULK DENSITY (g/ml) | 0.66 - 0.79 g/ml (68° C) |
| SOLUBILITY | Insoluble |

X. STABILITY AND REACTIVITY

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|------------------------------------|----------------------------------------------------------|
| STABILITY | Stable under normal conditions. |
| CONDITIONS TO AVOID | Avoid moisture and high humidity. Avoid dust generation. |
| MATERIALS TO AVOID | Water and reducing agents. |
| HAZARDOUS DECOMPOSITION PRODUCTS | None |
| POSSIBILITY OF HAZARDOUS REACTIONS | None |

XI. TOXICOLOGICAL INFORMATION

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|-------------|---------------------------------------------------------------|
| PERMISSIBLE | No permissible exposure limits have been established by OSHA. |
| ACUTE | |
| INHALATION | Not available |
| EYE/SKIN | Dust may irritate eyes on contact. |
| INGESTION | No hazards anticipated. |
| CHRONIC | Not available |

XII. ECOLOGICAL INFORMATION

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|----------------------------|-----------------------------|
| ECOLOGICAL TOXICITY VALUES | No harm to the environment. |
| ENVIRONMENTAL EFFECTS | No harm to the environment. |
| BIODEGRADABILITY | No harm to the environment. |

XIII. DISPOSAL CONSIDERATIONS

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| WASTE DISPOSAL | Not rated a hazardous substance by USEPA. Recycle used material through cement and ceramic manufacturers. |
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XIV. TRANSPORTATION INFORMATION

Avoid damage to the packaging. Avoid loading weight on the material to prevent pulverization. SDOT, IMDG and IATA/CAO.

XV. REGULATORY INFORMATION

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| CHINA | Industrial standards HG/T 3927-2007, this product is classified as industrial activated alumina. |
| UNITED STATES | |
| REGISTRATION STATUS | Released/List |
| CHEMICAL | TSCA, US |
| OSHA | ACGIH TLV established |
| EPCRA | 311/312 (Hazard Categories) Acute |

XVI. OTHER INFORMATION

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| OTHER SPECIAL | Not applicable |
| DATE OF ISSUE | January 7, 2021 |