norweco®

SAFETY DATA SHEET
PHOS-4-FADE® ADSORPTIVE MEDIA

EMERGENCY TELEPHONE: (800) 424-9300

DATE PREPARED: JANUARY 2026

I. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	Phos-4-Fade® Adsorptive Media
CHEMICAL NAME	Aluminum Oxide
CHEMICAL ABSTRACT SERVICE NO.	CAS #1344-28-1
CHEMICAL FAMILY	Aluminum Oxide
FORMULA	$Al_2O_3 \bullet nH_2O$
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

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. COMPOSITION/INFORMATION ON INGREDIENTS

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.

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

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

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

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

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	
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

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

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

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

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

XIII. DISPOSAL CONSIDERATIONS

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

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

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

OTHER SPECIAL	Not applicable
DATE OF ISSUE	January 4, 2026

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