

Material Safety Data Sheet
Tuesday, March 01, 2005
Alpha Alumina, Fused Aluminum Oxide
Champion Aviation P/N 91893
NSN 4910-00-845-1775 SAND, ABRASIVE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Alpha Alumina, Fused Aluminum Oxide

CHEMICAL FAMILY: Refractory Oxide

TRADE NAMES: Exolon, Fastblast, FW, RW, FW-SC, RW-SC, ESP&C, ESP&C-M1, #1 A.O., FHT, RHT, BCG, A/S, TA, AWP

MANUFACTURER: Exolon-ESK Co.
1000 E. Niagra Street
Tonawanda, NY 14150

EMERGENCY PHONE NUMBERS: (716) 693-4550
(Mon. - Fri., 8:00 a.m. - 4:30 p.m. EDT)

SYNONYMS: Alpha Alumina

DATE ISSUED: 1/10/2001

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME (CAS #)	Weight %	OSHA PEL (mg/m3)	TWA mg/m3
Alpha Alumina(Al2O2) 1344-28-1	96-100		
Total Dust		15	10
Respirable Fraction		5	5
Titanium Dioxide(TiO2) 13463-67-7	0-4		
Total Dust		5	5

NOTE: 1. PEL and TWA values given above are 8-hour time-weighted averages, unless otherwise specified.
2. Source of exposure limit data: ACGIH Threshold Limit Values: (OSHA Tables Z-1-A, Z-2, Z-3)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: White and/or brown granular or fine powder, no odor. Product does not pose significant fire or health hazards. Abrasive particulate may be irritation to the eyes and respiratory tract. Product is non-combustible and stable.

PRIMARY ROUTES OF ENTRY(for particulate):

INHALATION: YES
SKIN: NO
INGESTION: NO
OTHER: NO

POTENTIAL HEALTH EFFECTS:

ACUTE:

Eye Contact: Particulate may cause slight to moderate irritation. Abrasive action of dust can damage eyes.

Skin Contact: No evidence of adverse effects expected.

Inhalation: Inhalation of airborne particulate may cause slight to moderate irritation of mucous membranes.

CHRONIC: NONE

SIGNS AND SYMPTOMS:

Irritation, shortness of breath, decreased chest expansion, dry cough, fatigue

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE(to particulate):

Individuals with lung disorders should not be exposed to conditions where large airborne quantities of the nuisance dust exists

without precautions taken to alleviate the aggravated preexisting medical condition.

4. FIRST AID MEASURES

EYES: Immediately flush with large amounts of running water as needed. If symptoms persist, seek medical attention.

SKIN: If dust gets on skin, wash contaminated area with soap and water. Remove and wash contaminated clothing. If rash, irritation, or other symptoms persist, seek medical attention.

INGESTION: Leave decision to induce vomiting for a doctor, since particles may be aspirated into the lungs. Seek immediate medical attention.

INHALATION: Immediately remove victim from the adverse environment to fresh air and seek medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

FLAMMABLE LIMITS: Not applicable LEL: Not applicable UEL: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

GENERAL HAZARD: This abrasive product is non-combustible and does not pose fire or explosion hazards, and will not initiate or contribute to the intensity of a fire.

EXTINGUISHING MEDIA: As appropriate for surrounding fire.

FIRE FIGHTING INSTRUCTIONS: As appropriate for surrounding fire.

FIRE FIGHTING EQUIPMENT: As appropriate for surrounding fire.

HAZARDOUS COMBUSTION PRODUCT: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: If there is a spill of a product, the following precautions should be taken. Clean up using methods which avoid dust generation. If a vacuum is used, exhaust air should be filtered by a high-efficiency particulate air (HEPA) filter. Compressed air should not be used to clean up spills. During cleanup, skin and eye contact and inhalation of dust should be avoided as much as possible. When necessary, wear appropriate personal protective equipment (see Section 8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION MEASURES) during clean-up operations. Place material into a clean dry container with a clean shovel, and cover. Comply with Federal, State and Local regulations regarding reporting of spills and disposal.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE AND PRESSURE: Not applicable

GENERAL: Keep product in containers. Handle in such a way to minimize from becoming dispersed in the work environment. Store in containers indefinitely with no risk of health hazard. Utilize approved dust respirator when acute dustiness has occurred in work environment.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

ENGINEERING CONTROLS: Used local and/or general dilution ventilation, as needed, to reduce employee exposures to below applicable OSHA PEL's and ACGIH TLV's(see SECTION 2.0, COMPOSITION INFORMATION ON INGREDIENTS, for PEL's and TWA's

EYE/FACE PROTECTION: Safety Glasses and/or dust-proof safety goggles to prevent contact with abrasive dust.

PROTECTIVE GLOVES: As needed to prevent skin contact with abrasive dust.

RESPIRATORY PROTECTION: Use an appropriate NIOSH/MSHA-approved respirator if airborne contaminant concentration exceed applicable OSHA PEL or ACGIH TLV (see SECTION 2.0, COMPOSITION INFO. ON INGREDIENT, for PEL's and TWA's), or other industry standards or guidelines on exposure. If respiratory protection is required, all appropriate requirements as set forth in 29 CFR 1910.134 must be met.

OTHER PROTECTIVE CLOTHING/EQUIPMENT: Clothing which minimizes skin exposure to abrasive dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 3500 deg. C	FREEZING POINT: Not applicable
VAPOR PRESSURE(mm Hg): Not applicable	SPECIFIC GRAVITY(H2O=1): 3.97
VAPOR DENSITY(air=1): Not applicable	EVAPORATION RATE: Not applicable
MELTING POINT: 2000 deg. C	SOLUBILITY IN WATER: Insoluble
pH(H2O): Not applicable	MOLECULAR WEIGHT: 101.94
APPEARANCE, ODOR, AND PHYSICAL STATE: White and/or brown granular or fine powder, no odor..	

10. STABILITY AND REACTIVITY

STABILITY: Product is stable under normal ambient and anticipated conditions of temperature and pressure.

CONDITIONS TO AVOID: Contact with incompatible materials.

INCOMPATIBLE MATERIALS: Not applicable

HAZARDOUS DECOMPOSITION: Not applicable

HAZARDOUS POLYMERIZATION: Not applicable

11. OTHER INFORMATION

DISCLAIMER: All information, recommendations, and suggestions appearing herein concerning the product are based upon data believed to be reliable. It is the user's responsibility to determine the safety toxicity and suitability for their own use of the product described herein, and to comply with all applicable regulations. Since the actual use by others is beyond the MSDS developer's control, no guarantee, expresses or implied is made by the Exolon-ESK Co. as to the effects of such use, the results to be obtained, or the safety and toxicity of the product, nor does Exolon-ESK Co. assume any liability arising out of use by others of the product referred to herein. This MSDS is not intended as a license to operate under, or recommendation to infringe on, any patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.