



HA International Chemicals Trading LLC – O.P.C

MATERIAL SAFETY AND DATA SHEET **(MSDS)**

1: PRODUCT IDENTIFICATION AND COMPANY DETAILS

Product Name : Fly Ash
Product Identifier : Coal Fly Ash, Pulverised Fuel Ash
Product Use : Cement Replacement, Industrial Use, Concrete Products.
HSN Code : 26 21 90 00
Company Detail : **HA International Chemicals Trading LLC**
Address : Khalifa Bin Zayed, Al Danah, Abu Dhabi - 25819
Mobile No. : +971 54 787 6666

2: PHYSICAL PROPERTIES AND CHEMICAL COMPOSITION

Sr. No	Characteristics	Results
1	Silicon Dioxide (SiO ₂) + Aluminium Oxide (Al ₂ O ₃) + Iron (Fe ₂ O ₃) Min %	70.50
2	Silicon Dioxide (SiO ₂) by % mass Min	39.13
3	Magnesium Oxide (MGO) Max %	8.67
4	Sulphur Trioxide (SO ₃) Max %	0.84
5	Moisture Content Max %	0.14
6	Loss On Ignition Max %	0.35
7	Available Alkalis as Sodium Oxide (Na ₂ O) Max %	1.24
8	Fineness % Retained on 45 Micron in Wet-Sieving Max%	< 20

3: HAZARDS IDENTIFICATION

Eyes : It may result in mild irritation, tearing, and redness.
Skin : May cause mild irritation.
Ingestion : Could lead to abdominal discomfort.
Inhalation : Irritating to nose, throat, causing coughing and sneezing.
Chronic Effects: Prolonged or repeated inhalation of dust containing high concentrations of fly ash may result in inflammation of the small airways in the lungs, leading to asthma-like symptoms or bronchitis.

4: FIRST AID MEASURES

Eyes : Flush eyes with plenty of water.
Skin : Wash skin immediately with soap and water.
Ingestion : Seek medical attention.
Inhalation : Move person to fresh air obtain medical if symptoms persist.



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5: FIRE FIGHTING MEASURES

- Extinguishing Media:** The product is non-flammable. Use standard fire fighting equipment and procedures.
- Fire Fighter Protection:** Fire fighters should wear full protective gear, including a positive pressure self-contained breathing apparatus.
- Special Hazard :** Not considered flammable.

6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions :** Refers to section 8.
- Environmental Precautions :** Prevent entry into sewers and public waterways.
- Vacuum :** Use a high-efficiency air vacuum or wet sweeping method.

7: HANDLING AND STORAGE

- Handling Precautions :** Avoid generating dust when handling in the dry state. When handled pneumatically, use appropriate dust filters and transfer vehicles to move material to silos.
- Storage Conditions :** Store in dry place. Protect from moisture.

8: PERSONAL PROTECTION AND EXPOSURE CONTROL

- Eye / Face Protection :** Safety glasses with side and brow protection should be worn at all times.
- During handling Fly Ash :** Goggles are preferred.
- Skin Protection :** Wear chemically resistant protective gloves and appropriate protective clothing. Boot covers are recommended.
- Respiratory Protection :** Use a NIOSH-approved respirator or self-contained breathing apparatus when exposure may surpass established occupational exposure limits.

9: PHYSICAL AND CHEMICAL PROPERTIES

Property: Value	Property: Value
Appearances: {Physical State, Colour, etc} Off - white	Upper / Lower flammability or explosive Limits: N/A
Odour: Odourless	Vapour Pressure (PA): N/A
Odour Threshold: N/A	Vapour Density: N/A
PH Level: 9-12°C	Specific Gravity or Relative Density: 2.3-2.7
Melting Point / Freezing Point(°C): N/A	Water Solubility: Not Soluble



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Initial Boiling Point and Boiling Range(°C): N/A	Partition Coefficient: N-Octane/Water: N/A
Flash Point(°C): Not Determined	Auto Ignition Temperature (°C): N/A
Evaporation Rate: N/A	Decomposition Temperature(°C): Not Determined
Flammability {Solid, Gas}: Not Consumable	Viscosity: N/A

10: STABILITY AND REACTIVITY

Stability :	The Product is considered to be stable.
Conditions To Avoid :	Avoid spreading dust and from moisture.
Hazardous Decomposition Products:	None.

11: TOXICOLOGICAL INFORMATION

Eyes :	If dust remains in contact with the eyes, it can react with moisture and cause irritation of the conjunctiva.
Skin :	Dry PFA has minimal impact on the skin. However, when moist, it is alkaline and prolonged or repeated contact can lead to abrasion and irritant dermatitis.
Ingestion :	There are no Known adverse effects following ingestion.

12: ECOLOGICAL INFORMATION

Toxicity :	No information is available.
Persistence and Degradability :	No information is available.
Bio-accumulative Potential :	No information is available.
Mobility in Soil :	No information is available.

13: DISPOSAL CONSIDERATION

Waste Disposal Recommendations :	For safe handling, use, and appropriate hygienic practices, refer to Sections 7 and 8 above. Dispose of all waste products and containers in accordance with local, regional, national, and international regulations.
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14: TRANSPORT INFORMATION

DOT :	Not regulated as a hazardous material.
IMDG :	Not regulated as a hazardous material.
IATA :	Not regulated as a hazardous material.
Additional Information:	In case of accidental exposure or contact during transport, refer to Section 3 & 4 (Composition / Information on Ingredients) for potential hazards and recommended precautions.



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15: REGULATORY INFORMATION

OSHA/MSHA Communication	:	This product is classified as hazardous by OSHA/MSHA and should be included in the employer's hazard communication program.
CERCLA/SUPERFUND	:	This product is not identified as a CERCLA hazardous substance.
EPCRA	:	This product has been evaluated according to EPASARA Title III: Hazard Categories under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 and is classified as a hazardous chemical with delayed health hazards.
EPRCA	:	This product does not contain any substances 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.
RCRA	:	If discarded in its purchased form, this product would not be classified as hazardous waste by either listing or characteristic. However, under RCRA, it is the responsibility of the product user to determine, at the time of disposal, whether any material containing or derived from the product should be classified as hazardous waste.
TSCA	:	Ash and crystalline silica are exempt from reporting requirements under the inventory update rule.

16: DISCLAIMER

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