



Ref **KH-FS-2026-08-SDS**

27 August 2026

Page 1 of 2

# SAFETY DATA SHEET - FLUORSPAR

## SECTION 1 - IDENTIFICATION

- Product name: Fluorspar (calcium fluoride, CaF<sub>2</sub>), powder and briquette grades.
- Recommended use: steelmaking flux, foundry, ceramics.
- Supplier: Kutlwano Holdings (Pty) Ltd, Minerals & Commodity Trading. Contact: [partnerships@kutlwanoholdings.co.za](mailto:partnerships@kutlwanoholdings.co.za).

## SECTION 2 - HAZARD(S) IDENTIFICATION

- Not classified as hazardous under GHS in mineral (solid, non-dust) form.
- Dust generated during handling may cause mechanical irritation to eyes, skin and respiratory tract.
- Not flammable, not explosive, not a reactivity hazard under normal conditions.

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

- Calcium fluoride (CaF<sub>2</sub>), CAS 7789-75-5, natural mineral (fluorspar/fluorite).
- Minor natural gangue: silica (SiO<sub>2</sub>), trace carbonates.

## SECTION 4 - FIRST-AID MEASURES

- Eyes: rinse with water for several minutes, remove contact lenses if present.
- Skin: wash with soap and water.
- Inhalation: remove to fresh air. Seek medical attention if irritation persists.
- Ingestion: rinse mouth, do not induce vomiting, seek medical advice.

## SECTION 5 - FIRE-FIGHTING MEASURES

- Non-combustible mineral. Not flammable.
- Use extinguishing media suited to the surrounding fire (water spray, foam, dry chemical, CO<sub>2</sub>).
- No specific hazards from the product itself in a fire.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Sweep or vacuum to minimise dust generation. Avoid dry sweeping where practical.
- Collect for reuse or disposal. No special environmental precautions for the solid mineral.

## SECTION 7 - HANDLING AND STORAGE

- Avoid breathing dust (P260). Use local exhaust ventilation where dust is generated.
- **Contact with strong acids liberates hydrogen fluoride (HF) gas, which is highly toxic and corrosive - keep away from strong acids.**
- Store in a dry, covered area. Bulk or bagged (1.0 / 1.25 MT jumbo bags).

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering controls: local exhaust ventilation / dust suppression where dust is generated.
- Respiratory protection: P95/N95 particulate respirator for dusty operations.
- Eye protection: safety glasses. Hand protection: work gloves. Skin: normal work clothing.



# SAFETY DATA SHEET - FLUORSPAR

Ref **KH-FS-2026-08-SDS**

27 August 2026

Page 2 of 2

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: crystalline mineral, colour varies (white to purple/green).
- Odour: none. Physical state: solid (powder or briquette).
- Solubility in water: low / practically insoluble.
- Melting point: approximately 1,418 °C.

## SECTION 10 - STABILITY AND REACTIVITY

- Stable under normal conditions of storage and handling.
- **Reacts with strong acids (e.g. sulphuric acid) to liberate hydrogen fluoride (HF) gas - a highly toxic and corrosive gas. Keep separate from strong acids.**
- Hazardous polymerisation does not occur.

## SECTION 11 - TOXICOLOGICAL INFORMATION

- Not classified as acutely toxic in mineral form.
- Dust may cause mechanical irritation to eyes, skin, and respiratory tract on prolonged exposure.
- No specific carcinogenic, mutagenic or reproductive toxicity classification for the mineral in this form.

## SECTION 12 - ECOLOGICAL INFORMATION

- Naturally occurring mineral with low water solubility and low mobility in the environment.
- No specific aquatic toxicity classification. Avoid unnecessary release to waterways.

## SECTION 13 - DISPOSAL CONSIDERATIONS

- Dispose of in accordance with local and national regulations.
- Not classified as hazardous waste in mineral form; confirm against local waste codes.

## SECTION 14 - TRANSPORT INFORMATION

- Not regulated for transport under IMDG/ADR/IATA in mineral (solid) form. UN number: not applicable.
- **Transportable Moisture Limit (TML) applies to powder cargoes exceeding 8% moisture, per the IMSBC Code - a TML certificate is required for such bulk shipments.**

## SECTION 15 - REGULATORY INFORMATION

- Not classified as hazardous under GHS in mineral form.
- Country-specific inventory/regulatory status to be confirmed against the destination market on request.

## SECTION 16 - OTHER INFORMATION

- Revision: 1. Date issued: 27 August 2026.
- This SDS is provided for general safety guidance. It does not replace a destination-market-specific SDS where one is required by local regulation.