

SAFETY DATA SHEET

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Version : 1.0
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HTF

1. Identification of the mixture and of the company

Product name: HTF

Product code: N/A

Company: ARK Resource co., Ltd.

Address: 383-2, Nakahara-machi, Nishi-ku, Kumamoto, 861-5271, Japan

Phone Number: +81-96-329-0880

Fax Number: +81-96-329-0882

Identified use: Research and development use only.

2. Hazard identification

Classification of the mixture: Not a hazardous substance or mixture according to Regulation of GHS.

Label elements: Not a hazardous substance or mixture according to Regulation of GHS.

Other Hazards: No data available.

3. Composition/information on ingredients

Substance/mixture: Mixture

Chemical identify or ingredient name (Synonyms)	Formula	Composition (%)	CAS RN	ENCS No.	ISHL No.
-	-	-	-	-	-

Impurities that contribute to the classification of GHS: None

4. Description of First-aid measures

If Inhaled: flesh air: Remove to fresh air and keep at rest. Call a doctor if necessary.

In case of skin contact: Rinse skin with plenty water/ shower. Call a doctor if necessary.

In case of eye contact: Rinse out with plenty of water. Remove contact lenses.

If swallowed: Rinse mouth with water. Call a doctor if necessary.

Precaution for first-aid persons: Wear rubber gloves and air-tight safety goggles.

5. Firefighting measures

Suitable extinguishing media: No data available

Unsuitable extinguishing media: No data available

Special hazards arising from the substance or mixture: No data available

Specific fire-fighting measures: No data available

Special protective equipment and precautions for fire-fighters: No data available

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6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

: Evacuate non-essential personnel. Wear appropriate protective clothing.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up: Collect, bind, and pump off spills.

Measures to prevent secondary disasters

: Clean areas and objects thoroughly in accordance with environmental regulations.

7. Handling and storage

Handling:

Countermeasure technique(s): Wear rubber gloves and air-tight safety goggles if necessary.

Precautions for safe handling: Do not shock, overturn, drop, or drag containers. Handle not to generate aerosol or dust.

Safety measures: Wear rubber gloves and air-tight safety goggles.

Storage:

Conditions for safe storage: No data available

Recommended container and packaging materials: Glass.

Prohibited substances of contact/mixture: No data available

8. Exposure control/personal protection

Control parameters: No data available

Exposure controls: No data available

Appropriate engineering controls: Keep source tightly closed or install local exhaust ventilation. Provide shower and vanity unit nearby and make clear the location of these.

Personal protective equipment:

Respiratory protection: Dust mask.

Hand protection: Impervious glove.

Eye protection: Protective eyeglasses or chemical safety goggles.

Skin and body protection: Impervious clothing such as apron, boots, or whole-body suits.

Hygiene measures: Do not eat, drink, or smoke when using, and wash your hands well after use.

9. Physical and chemical properties

Physical state

Color: clear

Form: liquid

Odor: No data available

Melting point/ freezing point: No data available

Initial boiling point and boiling range: No data available

Flammability: No data available

lower flammability or explosive limits: No data available

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Upper flammability or explosive limits: No data available

Flash point: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

pH: 7.5 to 8.0

Kinematic viscosity: No data available

Solubility in water: Soluble

Octanol/water partition coefficient: No data available

Vapor pressure: No data available

Density/relative density: No data available

Relative gas density (air=1): No data available

Particle characteristics: No data available

10. Stability and reactivity

Reactivity:

Chemical stability: This product is considered a stable material under normal and anticipated storage and handling conditions.

Possibility of hazardous reactions: This product is considered a stable material under normal and anticipated storage and handling conditions.

Conditions to avoid: No data available

Special hazards arising from the substance or mixture: No data available

Hazardous decomposition products: No data available

11. Toxicological information

Acute toxicity (oral): No data available

Acute toxicity (Dermal): No data available

Acute toxicity (Inhalation): No data available

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory sensitization: No data available

Skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenic effects: No data available

Specific target organ systemic toxicity (single exposure): No data available

Specific target organ systemic toxicity (repeated exposure): No data available

Aspiration hazard: No data available

12. Ecological information

Ecotoxicity: No data available

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13. Disposal considerations

Waste treatment methods: Contact a licensed professional waste disposal service to dispose of this material.

Comply with all country, national and local regulations.

14. Transport information

UN number: Not applicable

UN proper shipping name: Not applicable

UN class/ division: Not applicable

Subsidiary risk: Not applicable

Packing group: Not applicable

Marine pollutant: Not applicable

Transport hazard class: Not applicable

Marine regulation information: Not controlled under IMDG's regulations.

Aviation regulation information: Not controlled under ICAO/IATA's regulations

Land regulation information: Not controlled under ADR/RID's regulations.

15. Regulatory information

Compliance with national and local regulations is the responsibility of the user.

16. Other information

Disclaimer:

For R&D use only. Not for drug, household, or other uses.

Further information:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. ARK Resource Co. shall not be held liable for any damage resulting from handling or from contact with the above product.