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KAIDA YISHENG CO., LTD.

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原材料说明 MATERIAL SPECIFICATION

原材料 Material : AMMONIUM BIFLUORIDE

批号 Batch No : 2017121001 分子式 Formula : NH₄HF₂

分子量 Molecular Weight : 57.04

外观 Appearance : WHITE POWDER

包装 Package : IN 25KG PLASTIC WOVEN BAG

| Items | Standard Index | Results of Analysis% |
|---|----------------|----------------------|
| Ammonium Bifluoride (NH ₄ HF ₂)(Dry basis) | 98.00% MIN | 98.12% |
| Loss on drying | 3.0% MAX | 1.5% |
| Ignition Residue | 0.10% MAX | 0.07% |
| Sulphate (SO ₄) | 0.10% MAX | 0.052% |
| Fe | 0.01% MAX | 0.004% |
| Ammonium Fluorosilicate [(NH ₄) ₂ SiF ₆] | 0.50% MAX | 0.4% |

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MSDS FOR AMMONIUM BIFLUORIDE

Section 1. Identification of substance

Synonyms: Ammonium Hydrogen Fluoride; Ammonium Difluoride; Acid Ammonium Fluoride

MolecularWeight: 57.04

Chemical Formula: NH₄HF₂

CAS No.: 1341-49-7

UN NO.: 1727

Company Name:KAIDA YISHENG CO.,LTD.

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Section 2. Composition/Data on component

Ammonium Bifluoride

| Ingredient | CAS No | Percent | Einecs # | Hazardous |
|---------------------|-----------|---------|-----------|-----------|
| Ammonium Bifluoride | 1341-49-7 | 98%min | 215-676-4 | Yes |

Section 3. Hazards Identification

Hazard Symbols: T + C

Risk Phrases: 25 34

UNMajor hazard class: 8.0.

Danger! May be fatal if swallowed or inhaled. Affects Respiratory System, Heart, Skeleton, Circulatory System, Central Nervous System and Kidneys. Causes irritation and burns to skin, eyes and respiratory tract. Irritation and burn effects may be delayed. Harmful if absorbed through skin. Toxic if swallowed. Causes burns. Hygroscopic.

Potential Health Effects

Eye:

Causes eye burns.

Skin:

Causes skin burns. Contact with liquid is corrosive and causes severe burns and ulceration.

Ingestion:

Poison by ingestion. Causes gastrointestinal tract burns. Causes severe digestive tract burns with abdominal pain, vomiting, and possible death. May cause headache. May cause nausea and vomiting.

Inhalation:

May cause irritation of the respiratory tract with burning pain in the nose and throat,



coughing, wheezing, shortness of breath and pulmonary edema. Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Chronic:

Chronic inhalation and ingestion may cause chronic fluoride poisoning (fluorosis) characterized by weight loss, weakness, anemia, brittle bones, and stiff joints. May cause digestive tract disturbances.

Section 4. First-Aid Measures

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:

Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Section 5. Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products.

Extinguishing Media:

Use water spray to cool fire-exposed containers. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Section 6. Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

Section 7. Handling and Storage

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage:

Keep away from heat and flame. Store in a tightly closed container.

Store in a cool, dry, well-ventilated area away from incompatible substances.

Corrosives area.

Keep away from acids.

Keep away from strong bases.

Section 8. Exposure Controls/Personal Protection

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment:

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Safety phrases

S22 Do not inhale dust.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S37 Wear suitable gloves.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section 9. Physical and Chemical Properties

Physical State: rhombohedral crystal

Appearance: white

Odor: pungent odor

pH: Not available.

Vapor Pressure: 1 hPa @ 20 deg C

Viscosity: Not available.

Boiling Point: 239.5 deg C @ 760.00mm Hg

Freezing/Melting Point: 125 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition

Temperature: 630 G/L WATER (20°C)

Solubility in water

Specific Gravity/Density: (NH₄)HF₂

Molecular Formula: 57.04

MolecularWeight

Section 10. Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, moisture, temperatures above 300°C.

Incompatibilities with OtherMaterials:

Metals, acids, bases, glass.

Hazardous Decomposition Products:

Hydrogen fluoride, ammonia and/or derivatives.

Hazardous Polymerization:

Will not occur.

Section 11. Toxicological Information

LD50/LC50:

Not available.

Carcinogenicity:

Ammonium hydrogen difluoride -

ACGIH: A4 - Not Classifiable as a Human Carcinogen (as F) (listed

IARC: Group 3 carcinogen (listed as ** undefined **).

See actual entry in RTECS for complete information.

Section 12. Ecological Information

Ecotoxicity:

Fish toxicity:LC0 zebra-fish: 137 mg/L/96HBacteria toxicity:EC50 activated sludge:

2394 mg/L

Section 13. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14. Transport Information

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Shipping Name: AMMONIUM HYDROGEN DIFLUORIDE, SOLID

Hazard Class: 8

UN Number: 1727

Packing Group: II

IMO

Shipping Name: AMMONIUM HYDROGEN DIFLUORIDE, SOLID

Hazard Class: 8

UN Number: 1727

Packing Group: II

RID/ADR

Shipping Name: AMMONIUM HYDROGEN DIFLUORIDE, SOLID

Hazard Class: 8

UN Number: 1727

Packing group: II

Section 15. Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T + C

Risk Phrases:

R25 Toxic if swallowed.

R34 Causes burns.

Safety Phrases:

S22 Do not breathe dust.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 Wear suitable gloves.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section 16. Other Information

Department of making out:

Department of looking through:

LabelHazardWarning:

DANGER! MAY BE FATAL IF SWALLOWED OR INHALED. AFFECTS RESPIRATORY SYSTEM, HEART, SKELETON, CIRCULATORY SYSTEM, CENTRAL NERVOUS SYSTEM AND KIDNEYS. CAUSES IRRITATION AND BURNS TO SKIN, EYES AND RESPIRATORY TRACT. IRRITATION AND BURN EFFECTS MAY BE DELAYED. HARMFUL IF ABSORBED THROUGH SKIN.

Label Precautions:

Do not breathe dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing.

Label FirstAid:

In all cases call a physician immediately. First Aid procedures should be pre-planned for fluoride

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compound emergencies. If swallowed, administer milk, chewable calcium carbonate tablets or milk of magnesia. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give artificial respiration. In case of skin contact wipe off any excess material then immediately flush skin with large amounts of soapy water. Remove contaminated clothing and shoes. Wash clothing before re-use. Apply bandages soaked in magnesium sulfate. In case of eye contact, immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting upper and lower eyelids occasionally.

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

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