

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2015/830,
According to REGULATION (EC) No 1272/2008
AMMONIUM POLYPHOSPHATE

Version 1.0

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Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: AMMONIUM POLYPHOSPHATE
Additional identification: Polyphosphoric acids, ammonium salts
Identification of the product: CAS# 68333-79-9 EC# 269-789-9
Index Number: Not available
REACH registration No.: Monomers:
Diammonium hydrogenorthophosphate : 01-2119490974-22-0081
Diphosphorus pentoxide : 01-2119489912-25-0036

1.2 Relevant identified uses of the substance or mixture and uses advised against:

1.2.1 Identified uses:

COATING.

1.2.2 Uses advised against:

No uses advised against are identified.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): Chemical Inspection & Regulation Service Limited
Supplier(Manufacturer): SHIFANG TAIFENG NEW FLAME RETARDANT CO.,LTD
Address: TINGJIANG INDUSTRIAL PARK, HEFENG TOWN, SHIFANG CITY, SICHUAN
CHINA
Contact person(E-mail): lucy@taifeng-fr.com
Telephone: 86-28-84721008
Fax: 86-28-84721009

1.4 Emergency telephone Number:

+353 41 6871874 (Only available during office hours (9:00a.m.-17:30p.m))

Available outside office hours? YES NO

Section 2 Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 Classification:

The substance is classified as following according to REGULATION (EC) No 1272/2008:

| REGULATION (EC) No 1272/2008 | |
|----------------------------------|------------------|
| Hazard classes/Hazard categories | Hazard statement |
| Acute Tox. 4 | H302 |
| Eye Irrit. 2 | H319 |

For full text of H- phrases: see section 2.2.

2.2 label elements:

Hazard Pictograms:**Signal Word(S):**

Warning

Hazard Statement:

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

Precautionary statement:

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330: Rinse mouth.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P501: Dispose of contents/container in accordance with local regulations.

2.3 Other hazards:

Not applicable.

Section 3 Composition/information on ingredients

Substance/Mixture:

Substance

Ingredient(s):

| Chemical Name | Registration No. | CAS No. | EC No. | Concentration |
|------------------------|--|------------|-----------|---------------|
| AMMONIUM POLYPHOSPHATE | Monomers: Diammonium hydrogenorthophosphate : | 68333-79-9 | 269-789-9 | 99.5% |
| | 01-2119490974-22-0081 | | | |
| | Diphosphorus pentaoxide : | | | |
| | 01-2119489912-25-0036 | | | |

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Assure fresh air breathing. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration. If symptoms persist call a doctor.

4.1.2 In case of skin contact:

Wash immediately with plenty of soap and water. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse.

4.1.3 In case of eyes contact:

In case of eye contact, immediately rinse with clean water for 10-15 minutes. If symptoms persist call a doctor.

4.1.4 In case of ingestion:

Call a doctor. Do not induce vomiting. Immediately rinse mouth with water. Give nothing to drink. Seek medical advice if symptom persists.

4.2 Most important symptoms and effects, both acute and delayed:

Harmful if swallowed. Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: CO2 powder or water spray.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

When heated to decomposition, emits toxic fumes.

5.3 Advice for firefighters:

Self-contained breathing apparatus with full-face mask and full protective clothing (standard wear).

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Personal protective equipment (see exposure controls / personal protection)

6.1.2 For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

6.2 Environmental Precautions:

Try to prevent the material from entering drains or water courses. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

6.3 Methods and material for Containment and Cleaning up:

Stop or confine leakage. Transfer the material to appropriate tanks or containers. Solution can be reused, recycled or disposed. Wash thoroughly after handling.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothing and shoes. Wash clothing before re-using.

7.1.2 Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Storage area should be cool, dry, well ventilated, out of direct sunlight.

7.3 Specific end use(s):

Not applicable.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available.

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values:

| | | |
|--|-------------------------------------|-------------------------------|
| Workers - Hazard via inhalation route | Systemic effects-Long term exposure | DNEL= 18.06 mg/m ³ |
| General Population - Hazard via inhalation route | Systemic effects-Long term exposure | DNEL= 4.45 mg/m ³ |
| General Population - Hazard via oral route | Systemic effects-Long term exposure | DNEL=1.28mg/kg bw/day |

8.2 Exposure controls:

Exposure limits:

AMMONIUM POLYPHOSPHATE: No occupational exposure limits established.

- 8.2.1 Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
- 8.2.2 Individual protection measures, such as personal protective equipment:**
- Eye/face protection:** Safety glasses with side shields. Wear chemical goggles or face shield if splashing are generated when handling this material. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
 - Hand protection:** Wear chemical protective gloves.
 - Body protection:** Protective clothing (with elasticated cuffs and closed neck).
 - Respiratory protection:** No protection equipment under normal conditions of use. In case of ammonia emissions, use a facial mask with complete K2 filtrating cartridge.
 - Thermal hazards:** Wear suitable protective clothing to prevent heat.
- 8.2.3 Environmental exposure controls:** Avoid discharge into the environment. According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

| | |
|---|---|
| Appearance: | Powder |
| Colour: | White |
| Odour: | Not available |
| Odour threshold: | Not available |
| pH: | 6-8 |
| Melting point/range (°C): | >200°C |
| Boiling point/range (°C): | Not available |
| Flash point (°C): | Not available |
| Evaporation rate: | Not available |
| Flammability limit - lower (%): | Not available |
| Flammability (solid, gas): | Not applicable |
| Ignition temperature (°C): | Not available |
| Upper/lower explosive limits: | Not available |
| Vapour pressure: | 0.076Pa, 20 °C |
| Vapour density: | Not available |
| Density: | About 1.9 g/m ³ |
| Bulk density (kg/m³): | Not available |
| Water solubility (g/l): | <1.5% |
| n-Octanol/Water (log Po/w): | Not available |
| Auto-ignition temperature: | Not available |
| Decomposition temperature: | Not available |
| Viscosity, dynamic (mPa.s): | <50 mPa.s |
| Explosive properties: | Not available |
| Oxidising properties: | Not available |
| Molecular Formula: | (NH ₄) _n +2PnO _{3n+1} |
| Molecular Weight: | Not available |

9.2. Other information:

| | |
|--|---------------|
| Fat solubility(solvent-oil to be specified) | Not available |
| etc: | |
| Surface tension: | Not available |

| | |
|--------------------------------------|---------------|
| Dissociation constant in water(pKa): | 9.25(25 °C) |
| Oxidation-reduction Potential: | Not available |

Section 10 Stability and reactivity

| | |
|---|---|
| 10.1 Reactivity: | The substance is stable under normal storage and handling conditions. |
| 10.2 Chemical stability: | Stable at room temperature in closed containers under normal storage and handling conditions. |
| 10.3 Possibility of hazardous reactions: | No dangerous reactions known. |
| 10.4 Conditions to avoid: | Incompatible materials. Moisture. Extremely high temperatures. |
| 10.5 Incompatible materials: | Corrosive to brass, bronze, copper and aluminium. zinc. |
| 10.6 Hazardous decomposition products: | Toxic vapours. (NO, NO2). |

Section 11 Toxicological information

| | |
|---|-----------------------------------|
| 11.1 Information on toxicological effects: | |
| Acute toxicity: | |
| LD50(Oral, Rat): | >= 300 - <= 2 000 mg/kg bw female |
| LD50(Dermal, Rabbit): | Not available |
| LC50(Inhalation, Rat): | > 4.85 mg/L air (analytical) 4h |
| Skin corrosion/Irritation: | Not classified |
| Serious eye damage/irritation: | Causes serious eye irritation. |
| Respiratory or skin sensitization: | Not classified |
| Germ cell mutagenicity: | Not classified |
| Carcinogenicity: | Not classified |
| Reproductive toxicity: | Not classified |
| STOT- single exposure: | Not classified |
| STOT-repeated exposure: | Not classified |
| Aspiration hazard: | Not classified |

Section 12 Ecological information

| | |
|---|----------------|
| 12.1 Toxicity: | |
| Acute (short-term) toxicity: | |
| LC50(96h, Fish): | > 100 mg/L |
| EC50(48h, Crustacea): | > 100 mg/L |
| EC50(72h, Algae/aquatic plants): | > 97.1 mg/L |
| Chronic (long-term) toxicity: | |
| NOEC(Fish): | Not available |
| NOEC(Crustacea): | Not available |
| NOEC (Algae/aquatic plants): | 97.1 mg/L |
| 12.2 Persistence and degradability: | Not available |
| 12.3 Bioaccumulative potential: | Not available |
| 12.4 Mobility in soil: | Not available |
| 12.5 Results of PBT and vPvB assessment: | Not available |
| 12.6 Other adverse effects: | Not available. |

Section 13 Disposal considerations

13.1 Waste treatment methods:

Dispose of in accordance with all applicable local and national regulations. Use recovery/recycling where feasible, otherwise incineration is the recommended method of disposal. Empty containers may contain hazardous residues. Do not cut, puncture or weld on or near to the container. Labels should not be removed from containers until they have been cleaned. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

Section 14 Transport information

| | Land transport (ADR/RID) | Inland waterways (ADN) | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|--|-----------------------------|---------------------------|-------------------------|--|
| UN number | Not regulated | Not regulated | Not regulated | Not regulated |
| UN Proper shipping name | Not regulated | Not regulated | Not regulated | Not regulated |
| Transport hazard Class(es) | Not regulated | Not regulated | Not regulated | Not regulated |
| Packing group | Not regulated | Not regulated | Not regulated | Not regulated |
| Environmental hazards | No | No | No | No |
| Special precautions for user | See section 2.2 | See section 2.2 | See section 2.2 | See section 2.2 |
| Transport in bulk according to Annex II of Marpol and the IBC Code | Not regulated | Not regulated | Not regulated | NOT RESTRICTED AS PER IATA DGR 61TH EDITION. |

Section 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

15.2 Chemical safety assessment

YES NO

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by (EU) 2015/830

16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation for rail International transportation of Dangerous goods

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: Code international maritime dangerous goods code

ICAO-TI: International Civil Aviation Organization The International Civil Aviation Covenant

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

LC50: median lethal concentration

EC50: The effective concentration of substance that causes 50% of the maximum response.

NOEC: No Observed Effect Concentration

DNEL: derived no-effect level

PNEC: predicted no-effect concentration

16.3 Key literature references and sources for data

ECHA Registered substances data

16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

| Classification according to Regulation (EC) No. 1272/2008 | | Classification procedure |
|---|------|--------------------------|
| Acute Tox. 4 | H302 | On basis of test data |
| Eye Irrit. 2 | H319 | On basis of test data |

16.5 Relevant H-statements (number and full text):

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

16.6 Training instructions:

Not applicable.

16.7 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.8 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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