

Material Safety Data Sheet

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Urea Phosphate**

Product Number: D9013

Brand: Dando

Supplier: Dando Chemicals US LLC

Address: 551 E 11 Mile Rd Suite 3B, Madison Heights, MI 48071 USA.

Telephone: 248-629-9434

Emergency Phone # (For both supplier and manufacturer): +1 (313) 520 1328

Email: info@dandochem.us

Preparation Information: Dando Chemicals US LLC

2. HAZARDS IDENTIFICATION

Emergency Overview

May cause burns. Avoid contact and inhalation.

NFPA Ratings HMIS Ratings

Health : 1 Health : 1

Flammability : 0

Reactivity : 1 Reactivity : 1

Special : Corrosive

Potential Health Effects

Inhalation : Inhalation of dust may irritate the mucous membranes and respiratory tract.

Ingestion : May be harmful.

Skin Contact : May cause irritation and burns.

Eye Contact : May cause irritation and burns.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula: $(\text{NH}_2)_2\text{CO}\cdot\text{H}_3\text{PO}_4$

Molecular Weight : 158.0

Component Concentration

Urea Phosphate

CAS No. : 4861 – 19 – 2

EINECS No. : 225 – 464 – 3

4. FIRST AID MEASURES

General advice

In case of adverse effects consult a physician.

Specific Measures

Inhalation : Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion : Rinse mouth with water and drink plenty of water. Never give anything by mouth (oral) to an unconscious person. Seek medical attention.

Skin Contact : Wash with copious amount of water. Remove contaminated clothing.

Contact a physician if necessary.

Eye Contact : Flush eyes with plenty of water for 15 minutes, lifting lower and upper eyelids occasionally. Contact an ophthalmologist.

5. FIREFIGHTING MEASURES

Fire : Non flammable.

Suitable extinguishing media

Any mean suitable for extinguishing surrounding fire.

Special Protective :

Equipment

Use self contained breathing apparatus. Wear protective clothing. The product emits toxic fumes under fire conditions (ammonia and carbon dioxide).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Ventilate the area. Take precautions to minimize contact with the substance. Use personal protective equipment (Section 8).

Environmental Precautions:

Do not discharge into drains. Avoid surface and ground water contamination.

Methods for Cleaning :

Up/Taking Up

Pick up the dry product mechanically and store in suitable containers for recovery or disposal. Avoid raising dust.

7. HANDLING AND STORAGE

Handling

Minimize dust generation. Avoid contact with eyes and skin.

Incompatible with bases due to acid behaviour when dissolved in water.

Storage

Special Requirements : Reseal carefully any opened container and set upright to avoid leakages. Keep the product in the original containers.

Storage Conditions : Keep tightly closed, in well ventilated and cool place. Segregation from other dangerous goods required, specially from bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Values

Suggested according to US regulations : 15 mg/m³

(total dust) ; 5 mg/m³

(respirable fraction)

Exposure Controls

Local exhaust ventilation to keep low dust environment.

Personal Protective Equipment

Respiratory : Dust mask if necessary (filter type P2).

Eyes : Safety goggles required all the time.

Hands : Nitrile rubber gloves, over 0.11 mm thickness, > 480 min breakthrough time.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Crystalline solid

Colour : White

Odour : Odourless

pH : 2.75 (0.05% aqueous solution)

Melting Point : 116 - 117 °C

Boiling Point : not available

Flash Point : not applicable

Flammability : no data available

Autoignition temperature: it does not ignite

Explosion limits : not applicable

Water Solubility : 96 g/100 mL (20 °C)

Bulk Density : 1000 Kg/m³

10. STABILITY AND REACTIVITY

Stability: Stable under normal storage and temperature conditions.

Conditions to avoid: Contact with strong oxidizing agents, strong reducing agents, bases.

Avoid high temperatures.

Hazardous

Decomposition Products: Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia.

11. TOXICOLOGICAL INFORMATION

Oral Rat Toxicity (LD₅₀) : 5840 mg/Kg (Source:U.S. National Library of Medicine)

To the best of our knowledge, the toxicological properties of this substance have not been deeper investigated.

12. ECOLOGICAL INFORMATION

Do not discharge into drains and water or public depositories.

No ecotoxicological data available.

Potentially local effect to aquatic organisms due to pH lowering of water.

Bioaccumulation not expected, since it produces urea and phosphoric acid in water.

13. DISPOSAL CONSIDERATIONS

Product:

Allocation of a waste code number, according to the European Waste catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Contaminated packaging:

Empty containers may be reused after appropriate cleansing.

Packaging that cannot be cleaned should be disposed in agreement with the regional waste disposal company.

14. TRANSPORT INFORMATION

Rail & Road (ADR/IRD) – Sea (IMDG Code) – Air (IATA)

Proper Shipping Name Corrosive Solid, n.o.s. (Urea Phosphate)

UN Number 1759

Class 8

Packaging Group II

Hazard Label Corrosive

Marine Pollutant No

EmS F-A; S-B

15. REGULATORY INFORMATION

US Classification

Indication of Danger Corrosive.

Risk statements May cause burns

Safety Statements Avoid contact and inhalation.

SARA Not listed

TSCA Urea and Phosphoric Acid are listed

California Prop.65 Not listed

Labelling according to EC Directives

Hazard Symbol C Corrosive

R phrases 34 Causes burns (*)

S phrases

2 Keep out of reach of children

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

39 Wear eye/face protection

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

(*) main primary risk is irritation. More sensitive individuals may suffer burns.

16. OTHER INFORMATION

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. Dando Chemicals and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.