Fertilisants - Fertilizers

NPK

DAP 18-46-0 | UREA 46-0-0

DACSO/CORP

Hong Kong - Paris - Bordeaux

Contents

DOCUMENT STRUCTURE

Product range

DAP 18-46-0

Diammonium Phosphate

UREA 46-0-0

Nitrogen fertilizer

Our shipment terms and capacity

Minimum Order qty: 500 tons




SHIPPING FORMATS

50 kgs Bags

Shipped in 50 kgs Bags in bulk vessels or containers.

Jumbo bags

Shipped in Jumbo bags one ton in containers or Bulk vessels.

Bulk vessel

Shipped in Bulk vessel - bulk load above 8,000 tons per shipment.

DAP: DIAMMONIUM PHOSPHATE (18-46-0)

DAP 18-46-0

Diammonium Phosphate

DAP 18-46-0 properties

TECHNICAL PROPERTIES

Property	Value
Total Nitrogen	18% min
Total P2O5	46% min
Moisture (H2O)	3% max
Particle size	2-4 mm

DESCRIPTION

A range of compound fertilizers with a combination of nitrogen, phosphorus and potassium (NPK) - the most essential plant nutrients - which help to maximize crop yield and quality is called Straight NPK Fertilizer. Each compound, whether in prill or granule form, is designed to meet the average crop requirements.

N - Nitrogen

Greens up plants.

UP

P - Phosphorus

Reaches down to the roots and helps produce blooms.

DOWN

K - Potassium

Promotes all around wellbeing.

ALL AROUND

DAP MATERIAL SAFETY DATA SHEET

SECTIONS 1-3

1. PRODUCT IDENTIFICATION

Field	Value
MSDS name	Di-ammonium phosphate (DAP)
Synonyms	Primary di-ammonium phosphate; Ammonium dihydrogen phosphate; Ammonium biphosphate; Phosphoric acid, monoammonium salt
CAS NO.	7783-28-0
Molecular Weight	132.06
Chemical Formula	(NH4)2HPO4

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS NO	Percent	Hazardous
Diammonium Phosphate	7783-28-0	98-100%	Yes

3. HAZARDS IDENTIFICATION

Emergency Overview

WARNING CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.
HARMFUL IF SWALLOWED OR INHALED.

Rating	Value
Health Rating	1 - Slight
Flammability Rating	0 - None
Reactivity Rating	1 - Slight
Contact Rating	2 - Moderate
Lab Protective Equip	GOGGLES; LAB COAT; PROPER GLOVES
Storage Color Code	Green (General Storage)

POTENTIAL HEALTH EFFECTS

Exposure	Effect
Inhalation	Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.
Ingestion	Symptoms may include nausea, vomiting and diarrhea.
Skin Contact	Causes irritation to skin. Symptoms include redness, itching, and pain.
Eye Contact	Causes irritation, redness, and pain.
Chronic Exposure	No information found.
Aggravation of Pre-existing Conditions	No information found.

DAP MATERIAL SAFETY DATA SHEET

SECTIONS 4-8

4. FIRST AID MEASURES

Exposure	Measures
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
Skin Contact	Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

5. FIRE FIGHTING MEASURES

Item	Information
Fire	Not considered to be a fire hazard. Fire may produce toxic fumes.
Explosion	Not considered to be a fire hazard.
Fire Extinguishing Media	Use any means suitable for extinguishing surrounding fire.
Special Information	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive-pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

7. HANDLING AND STORAGE

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Airborne Exposure Limits: None established.

DAP MATERIAL SAFETY DATA SHEET

SECTIONS 8-10

8. EXPOSURE CONTROLS / PERSONAL PROTECTION - CONTINUED

Ventilation System

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators

For conditions where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. For emergencies or unknown exposure levels, use a full-face positive-pressure, air-supplied respirator.

Skin Protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection

Use chemical safety goggles and/or full face shield where dusting or splashing is possible. Maintain eye wash and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Brilliant white crystals or granules or Dark brown / yellow / green color
Odor	Faint acid odor.
Solubility	1 g/2.5 ml water
Specific Gravity	1.619
PH	8%
Volatiles by volume @ 21C (70F)	0
Boiling Point	No information found.
Melting Point	155C
Vapor Density (Air=1)	No information found.
Vapor Pressure (mm Hg)	No information found.
Evaporation Rate (BuAc=1)	No information found.

10. STABILITY AND REACTIVITY

Item	Information
Stability	Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products	Burning may produce ammonia and oxides of phosphorus.
Hazardous Polymerization	Will not occur.
Incompatibilities	Sodium hypochlorite.
Conditions to Avoid	Incompatibles.

DAP MATERIAL SAFETY DATA SHEET

SECTIONS 11-16

11. TOXICOLOGICAL INFORMATION

No LD50/LC50 information found relating to normal routes of occupational exposure.

Ingredient	Known	Anticipated	IARC Category
DI-Ammonium Phosphate (7783-28-0)	No	No	None

12. ECOLOGICAL INFORMATION

Item	Information
Environmental Fate	No information found.
Environmental Toxicity	No information found.

13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

Not regulated.

15. REGULATORY INFORMATION

Item	Information
Chemical Weapons Convention	No
TSCA 12(b)	No
CDTA	No
SARA 311/312	Acute: Yes Chronic: No Fire: No Pressure: No
Reactivity	No (Pure/Solid)
Poison Schedule	None allocated
WHMIS	This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and contains the information required by the CPR.

16. OTHER INFORMATION

NFPA Ratings - Health: 3 Flammability: 0 Reactivity: 0
Reactivity: No (Pure/Solid)
Revision Information: No Changes.

UREA (46-0-0)

UREA 46-0-0

Nitrogen fertilizer

UREA 46-0-0 Properties

SOURCE TEXT

Urea is a carbonyl group with two C-bound amine groups. The commercially available fertilizer has an analysis of 46-0-0 (N-P2O5-K2O). It has a role as a flour treatment agent, a human metabolite, a Daphnia magna metabolite, a Saccharomyces cerevisiae metabolite, an Escherichia coli metabolite, a mouse metabolite and a fertilizer. It is a monocarboxylic acid amide and a one carbon compound. It is functionally related to a carbonic acid. It is a tautomer of a carbamimidic acid.

COMMERCIAL ANALYSIS

Property	Value
Fertilizer analysis (N-P2O5-K2O)	46-0-0
Nitrogen content	46%
Chemical formula	CO(NH2)2
CAS No.	57-13-6

High nitrogen content

46-0-0 analysis provides a concentrated nitrogen fertilizer format.

Granular product

The brochure presents urea as a fertilizer product in granule/prill form.

UREA MATERIAL SAFETY DATA SHEET

SECTIONS 1-3

1. PRODUCT IDENTIFICATION

Field	Value
MSDS name	UREA
Synonyms	Carbamide
CAS NO.	57-13-6
Molecular Weight	60.06
Chemical Formula	CO(NH2)2

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS NO	Percent	Hazardous
UREA	57-13-6	46%	Yes (health)

3. HAZARDS IDENTIFICATION

Emergency Overview

WARNING CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.
HARMFUL IF SWALLOWED OR INHALED.

Rating	Value
Health Rating	1 - Slight
Flammability Rating	0 - None
Reactivity Rating	1 - None
Contact Rating	2 - Moderate
Lab Protective Equip	GOGGLES; LAB COAT; PROPER GLOVES
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Chronic Exposure	No information found.
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UREA MATERIAL SAFETY DATA SHEET

SECTIONS 4-8

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Item	Information
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UREA MATERIAL SAFETY DATA SHEET

SECTIONS 8-10

8. EXPOSURE CONTROLS / PERSONAL PROTECTION - CONTINUED

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Hazardous Polymerization	Will not occur.
Incompatibilities	Sodium hypochlorite.
Conditions to Avoid	Incompatibles.

UREA MATERIAL SAFETY DATA SHEET

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CDTA	No
SARA 311/312	Acute: Yes Chronic: No Fire: No Pressure: No
Reactivity	No (Pure/Solid)
Poison Schedule	None allocated
WHMIS	This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and contains the information required by the CPR.

16. OTHER INFORMATION

NFPA Ratings - Health: 3 Flammability: 0 Reactivity: 0
Reactivity: No (Pure/Solid)
Revision Information: No Changes.

Contact Information

BUSINESS DEVELOPMENT

Field	Information
Company	DACSO/CORP
Locations	Hong Kong-Paris-Bordeaux
Reference	ERC 2952574 06-19
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