SAFETY DATA SHEET



1. Identification

KOCH.

maominoation	
Product identifier	Diammonium Phosphate
Other means of identification	
Product code	KFI_DAP_US_EN
Synonyms	Phosphoric acid, diammonium salt * Diammonium hydrogenorthophosphate * Diammonium hydrophosphate * DAP
Recommended use	Fertilizer.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/	Distributor information
Company Name	Koch Fertilizer, LLC
	4111 E 37th Street North
	PO Box 2219
	Wichita, KS, 67201-2219
	kochmsds@kochind.com
	1-316-828-7672
Emergency	For Chemical Emergency
	Call CHEMTREC day or night
	1.800.424.9300
	Mexico - 1.800.681.9531
	Outside USA/Canada
	1.703.527.3887
	(collect calls accepted)
2. Hazard(s) identification	
Physical hazards	Not classified.
Health hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The substance does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Not applicable.
3 Composition/informatio	n on ingradiante

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Diammonium phosphate		7783-28-0	100

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. This Safety Data Sheet is not a guarantee of product specification or NPK value(s). NPK content is on specified sales orders, customer invoices, or product specification sheets obtained from supplier. 4. First-aid measures Inhalation Move to fresh air. Call a physician if symptoms develop or persist. Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists. Eye contact Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists. Ingestion Rinse mouth. Get medical attention if symptoms occur. Most important Dusts may irritate the respiratory tract, skin and eyes. Exposure may cause temporary irritation, redness, or discomfort. Coughing. symptoms/effects, acute and delayed Indication of immediate Treat symptomatically. medical attention and special treatment needed General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials. None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk.
General fire hazards	The product is non-combustible.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.
	Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.
	Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged exposure. Practice good housekeeping.
Conditions for safe storage, including any incompatibilities	This product when stored in a confined, unventilated space/hold can give off ammonia or other odors and lead to the depletion of oxygen within this space and other confined spaces. Store in tightly closed container. Store in a cool, dry, well-ventilated place. Store away from incompatible

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000)			
Components	Туре	Value	Form
Dust	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

materials (see Section 10 of the SDS).

Components	Туре	Value	Form
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
ACGIH			
Components	Туре	Value	Form
Dust	TWA	10 mg/m3	Inhalable particles.
US. ACGIH Threshold Lim			
Components	Туре	Value	Form
Dust	TWA	3 mg/m3	Respirable particles.
ological limit values	No biological exposure limits noted for	r the ingredient(s).	
propriate engineering ntrols	Provide adequate general and local e minimize the risk of inhalation of dust		ccupational exposure limits an
lividual protection measure	s, such as personal protective equipm	ent	
Eye/face protection	Risk of contact: Wear dust goggles.		
Skin protection			
Hand protection	Risk of contact: Wear protective glove supplier.	es. Suitable gloves can be rec	commended by the glove
Skin protection			
Other	No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.		
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear air supplied respiratory protection exposure concentrations are unknown. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134 and ANSI Z88.2.		
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.	
neral hygiene nsiderations	Always observe good personal hygie and before eating, drinking, and/or sr		

9. Physical and chemical properties

	-	
Appearance	Granules. Granular.	
Physical state	Solid.	
Form	Solid.	
Color	Colorless. Off-white. White. Brown.	
Odor	Not available.	
Odor threshold	Not available.	
рН	7.7 - 8.1 (25°C)	
Melting point/freezing point	311 °F (155 °C)	
Initial boiling point and boiling range	Not available.	
Flash point	Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or explosive limits		
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	0.0006 mm Hg (68 °F (20 °C))	

Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	57.5% @ 50°F (10°C)	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Other information		
Density	1.619 g/cm3	
Explosive properties	Not explosive.	
Molecular formula	H9-N2-O4-P	
Molecular weight	132.06 g/mol	
Oxidizing properties	Not oxidizing.	

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Bases. Metals. Oxidizing material.
Hazardous decomposition products	Nitrogen oxides (NOx). Phosphorus oxides. Ammonia.

11. Toxicological information

Information on likely routes of exposure

Information on likely routes of e	xposure
Inhalation	Dust may irritate respiratory system.
Skin contact	Dust may irritate skin.
Eye contact	Dust may irritate the eyes.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Symptoms related to the physical, chemical and toxicological characteristics	Dusts may irritate the respiratory tract, skin and eyes. Exposed individuals may experience eye tearing, redness, and discomfort. Coughing.
Information on toxicological effe	ects
Acute toxicity	Not expected to be acutely toxic.
Skin corrosion/irritation	May cause irritation through mechanical abrasion.
Serious eye damage/eye irritation	May cause eye irritation.
Respiratory or skin sensitization	1
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not classified as a carcinogen.
Not listed. NTP Report on Carcinogens Not listed.	
USHA Specifically Regulate	d Substances (29 CFR 1910.1001-1053)

This product is not expected to cause reproductive or developmental effects.

Not listed.

Reproductive toxicity

Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged exposure may cause chronic effects.	
12. Ecological information		
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
Persistence and degradability	No data available.	
Bioaccumulative potential	No data available.	
Mobility in soil	This product is water soluble and may disperse in soil.	
Other adverse effects	No data available.	
13. Disposal considerations		

Disposal instructions	Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according toNot applicable.Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed. All components of the mixture on the TSCA 8(b) inventory are designated **Toxic Substances Control Act (TSCA)** "active". Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous No chemical

Chemical name		CAS number	% by wt.
Lead		7439-92-1	0-0.01
er federal regulations			
Clean Air Act (CAA) Section	112 Hazardous Air	Pollutants (HAPs) List	
Not regulated.			
Clean Air Act (CAA) Section	112(r) Accidental R	elease Prevention (40 C	FR 68.130)
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
state regulations			
US. Massachusetts RTK - Su	Ibstance List		
Not regulated.			
US. New Jersey Worker and	Community Right-to	o-Know Act	
Not listed.			
US. Pennsylvania Worker an	d Community Right	-to-Know Law	
Not listed.			
US. Rhode Island RTK			
Not regulated.			
California Proposition 65			
Not Listed			
Lead (CAS 7439-92-1)			
ational Inventories			

Australia	Inventory name	On inventory (yes/no)*
Canada	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Non-Domestic Substances List (NDSL)	No
Europe	Inventory of Existing Chemical Substances in China (IECSC)	Yes
_	European Inventory of Existing Commercial Chemical	Yes
Europe	Substances (EINECS)	No
Japan	European List of Notified Chemical Substances (ELINCS)	
Korea	Inventory of Existing and New Chemical Substances (ENCS)	Yes
New Zealand	Existing Chemicals List (ECL)	Yes
Philippines	New Zealand Inventory	Yes
Taiwan	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
	Taiwan Chemical Substance Inventory (TCSI)	Yes

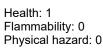
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	09-January-2014
Revision date	15-December-2023
Version #	03

Country(s) or region

NFPA ratings





References Disclaimer

IARC Monographs. Overall Evaluation of Carcinogenicity

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