

Material Safety Data Sheet (MSDS)

Section 1: Chemical Product and Company Identification	
Product Name	Ammonium Dibutyl Dithiophosphate
CAS Number	53378-51-1
Chemical Formula	$(C_4H_9O)_2PSSNH_4$
Company Name	CAMACHEM (Part of CAMAL Group) 3F Jinlong East Beijing Station Road Chaoyang District, Beijing, China
Contact	sales@camachem.com
Company Website	www.camachem.com
Section 2: Composition and Information on Ingredients	
Name	Ammonium Dibutyl Dithiophosphate
CAS #	53378-51-1
% by Weight	>90
Section 3: Hazards Identification	
Emergency overview:	<p>Appearance and odor: white to pale grey powder, odourless, deliquescent in air, soluble in water, chemically stable.</p> <p>Statements of hazard: danger! causes burns of eyes and skin</p>
Potential health effects:	<p>Direct contact with this material may cause severe eye and skin irritation.</p> <p>Contact with acid may cause liberation of hydrogen sulfide. Hydrogen sulfide has a strong rotten-egg odor, however, some people are unable to smell the gas and exposure will deaden the sense of smell. Therefore, odor is an unreliable indicator of exposure. Overexposure to hydrogen sulfide gas may cause severe eye or respiratory tract irritation, rapid development of coma and respiratory failure. Low levels of hydrogen sulfide may cause headache, dizziness, staggering gait, neurological damage and gastritis.</p>

Section 4: First Aid Measures

Eye Contact:	Immediately irrigate with plenty of water for 15 minutes. Obtain medical attention without delay.
Skin Contact:	Remove contaminated clothing without delay. Wear impervious gloves. Cleanse skin thoroughly with soap and water. Do not omit cleaning hair or under fingernails if contaminated. Do not reuse clothing without laundering. Do not reuse contaminated leatherware.
Inhalation:	Material is not expected to be harmful if inhaled. If inhaled, remove to fresh air.
Ingestion:	Material is not expected to be harmful by ingestion. No specific first aid measures are required.

Section 5: Fire and Explosion Data

Flash point:	Not applicable.
Flammable limits(% by vol):	Not applicable.
Autoignition temp:	Not available.
Decomposition temp:	Not available.
Mechanical/static sensitivity:	Mixing with acids or aqueous solutions containing acids could result in release of toxic and explosive hydrogen sulfide gas.
Extinguishing media and fire fighting instructions:	Use water, carbon dioxide or dry chemical to extinguish fires. Wear self-contained, positive-pressure breathing apparatus and full firefighting protective clothing. Sulfur dioxide or oxides of phosphorus may be formed under fire conditions. Do not flush to sewer which may contain acid. This could result in generation of toxic and explosive hydrogen sulfide gas.

Section 6: Accidental Release Measures

Steps to be taken in case material is released or spilled:	Where exposure level is not known, wear approved, positive pressure, self-contained respirator. Where exposure level is known, wear approved respirator suitable for level of exposure. In addition to the protective clothing/equipment in Exposure Control (Exposure Controls/Personal Protection), wear rain suit. Cover spills with some inert absorbent material; sweep up and place in a waste disposal container. Flush area with water.
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Section 7: Handling and Storage

Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

Section 8: Exposure Controls/Personal Protection

Engineering controls and personal protective equipment (ppe):

Utilize a closed system process where feasible. Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking, wash face and hands with soap and water. Prevent eye and skin contact. For operations where eye or skin contact can occur wear the special protective equipment specified below. Prevent contamination of skin or clothing when removing protective equipment. Provide eyewash fountain and safety shower in close proximity to points of potential exposure. For operations where inhalation exposure can occur, a approved respirator recommended by an industrial hygienist may be necessary. A full face-piece respirator also provides eye and face protection. Special protective equipment - To prevent skin contact wear skin protection, such as impervious gloves, apron, workpants, long sleeve workshirt, or disposable coveralls. To prevent eye contact wear eye protection such as chemical splash proof goggles or face shield.

Section 9: Physical and Chemical Properties

Physical state and appearance:	White to pale grey powder.
Taste:	Not available.
Odor:	Odourless.
Color:	Yellowish.
Ph (1% soln/water):	7-9
Boiling point:	Not available.
Melting point:	Not available.
% Volatile (by wt):	~ 50; (water)
Specific gravity:	0.65
Vapor pressure:	Not available.
Vapor density:	Similar to water.
Evaporation rate:	Similar to water.
Solubility in water:	Complete.

Volatile organic content:		Not available.	
Section 10: Stability and Reactivity Data			
Stability:		Stable.	
Conditions to avoid:		Not available.	
Conditions of Instability:		Not available.	
Incompatibility with various substances:		This product contains a neutralized dithio-acid. Avoid contact with strong oxidizing agents and mineral acids.	
Hazardous decomposition/combustion products:		Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, hydrogen sulfide and/or oxides of sulfur and phosphorus.	
Polymerization:		Will not occur.	
Section 11: Toxicological Information			
Toxicological information on the WHMIS regulated components of this product:		Ammonium dibutyl dithiophosphate has estimated acute oral (rat) and dermal (rabbit) LD50 values of greater than 5000 mg/kg and 2000 mg/kg, respectively. Direct contact with ammonium dibutyl dithiophosphate can cause eye burns and skin corrosion. Acute overexposure to sodium hydroxide mists or dusts causes severe respiratory irritation. A solution of sodium hydroxide can produce irreversible damage to eyes and skin.	
Section 12: Ecological Information			
No additional information available.			
Section 13: Disposal Considerations			
Waste Disposal:		It is recommends that organic materials classified as hazardous waste according to the relevant local or national regulations be disposed of by thermal treatment or incineration at approved facilities. All local and national regulations should be followed.	
Section 14: Transport Information			
	D.O.T. Shipping Information	IMO Shipping Information	
Shipping name:	Corrosive solid,basic,organic, N.o.s.	Corrosive solid,basic,organic, N.o.s.	
Hazard class / Packing group:	8	8	

	II	II
Un number:	1759	1759
Imdg page:	Not applicable	
Dot hazzardous Substance:	(product reportable quantity) Not applicable	Not applicable
Transport label Required:	Corrosive	Corrosive
Section 15: Other Regulatory Information		
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and this Material Safety Data Sheet contains all the information required by the Controlled Products Regulations.		
CANADA DSL:	Components of this product have been reported to Environment Canada in accordance with subsection 25 of the Canadian Environmental Protection Act and are included on the Domestic Substances List. US TSCA: All components of this product are included on the TSCA Inventory in compliance with the Toxic Substances Control Act, 15 U. S. C. 2601 et. seq.	
EEC EINECS:	All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) in compliance with Council Directive 67/548/EEC and its amendments.	
Section 16: Other Information		
References:	None.	
Other Special Considerations:	None.	
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