



MATERIAL SAFETY DATA SHEET

Manufacturer: Strem Chemicals, Inc
7 Mulliken Way
Newburyport, MA 01950-4098 U.S.A.
www.strem.com

Strem Customer Service (978) 499-1600
CHEMTREC (Emergency Only) (800) 424-9300
Poison Center (800) 562-8236

Section 1: Product Identification

Chemical Name: n-Dodecylphosphonic acid, min. 97%
Product Number: 15-1835
CAS Registry Number: 5137-70-2
Formula: CH₃(CH₂)₁₁P(O)(OH)₂
EINECS Number: 225-897-8
Chemical Family: organic phosphonic acid
Synonym: 1-Dodecanephosphonic acid

Section 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title compound	5137-70-2	100%	no data	no data

Section 3: Hazards Identification

Emergency Overview: Irritating to skin, eyes and respiratory tract.
Primary Routes of Exposure: Inhalation, skin, eyes
Eye Contact: Dust causes moderate to severe irritation of the eyes.
Skin Contact: Causes irritation to the skin
Inhalation: Causes irritation to the nose, mucous membranes and respiratory tract
Ingestion: No information on the physiological effects of ingestion. May be harmful if swallowed.
Acute Health Affects: Irritating to skin, eyes and respiratory tract.
Chronic Health Affects: No information available on long-term chronic effects
NTP: No
IARC: No
OSHA: No

SECTION 4: First Aid Measures

Eye Exposure: Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.
Skin Exposure: Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
Inhalation: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
Ingestion: Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.



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SECTION 5: Fire Fighting Measures

Flash Point: no data
Autoignition Temperature: no data
Explosion Limits: no data
Extinguishing Medium: carbon dioxide, dry chemical or foam
Special Fire Fighting Procedures: If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.
Hazardous Combustion and Decomposition Products: If involved in a fire, this material may emit irritating organic fumes
Unusual Fire or Explosion Hazards: No unusual fire or explosion hazards

SECTION 6: Accidental Release Measures

Spill and Leak Procedures: Small spills can be mixed with vermiculite, sodium carbonate or other suitable non-combustible adsorbent and swept up.

SECTION 7: Handling and Storage

Handling and Storage: Store in a tightly sealed container in a cool, dry place.

SECTION 8: Exposure Controls and Personal Protection

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin Protection: Wear protective clothing and gloves. Consult with glove manufacturer to determine the proper type of glove.
Ventilation: It is imperative that this material be handled in an efficient fume hood.
Respirator: If ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.
Ventilation: It is imperative that this material be handled in an efficient fume hood.
Additional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties

Color and Form: white to off-white powder
Molecular Weight: 250.31
Melting Point: 96-98°
Boiling Point: no data
Vapor Pressure: no data
Specific Gravity: no data
Odor: not determined
Solubility in Water: insoluble

SECTION 10: Stability and Reactivity

Stability: air and moisture stable
Hazardous Polymerization: no hazardous polymerization
Conditions to Avoid: none
Incompatibility: oxidizing agents
Decomposition Products: carbon dioxide, carbon monoxide and organic fumes

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SECTION 11: Toxicological Information

RTECS Data: Intraperitoneal(mouse); LDLo: 500mg/kg.
Carcinogenic Effects: no data
Mutagenic Effects: no data
Tetratogenic Effects: no data

SECTION 12: Ecological Information

Ecological Information: No information available

SECTION 13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations

SECTION 14: Transportation

Shipping Name (CFR): Non-hazardous
Hazard Class (CFR): NA
Additional Hazard Class (CFR): NA
Packaging Group (CFR): NA
UN ID Number (CFR): NA
Shipping Name (IATA): Non-hazardous
Hazard Class (IATA): NA
Additional Hazard Class (IATA): NA
Packaging Group (IATA): NA
UN ID Number (IATA): NA

SECTION 15: Regulatory Information

TSCA: Listed in the TSCA inventory
SARA (Title 313): Title compound not listed
Second Ingredient: none
Third Ingredient: none

SECTION 16: Other Information

Disclaimer: The information herein is believed to be accurate and reliable as of the date compiled. However, Strem Chemicals, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information.

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