

1 - Product and Company Information

ProductName MONOMETHYL PHOSPHATE DI-MONOCYCLOHEXYL AMMONIUM CRYSTALLINE

2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Not hazardous according to Directive 67/548/EEC.

3 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I
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MONOMETHYL PHOSPHATE DI-MONOCYCLOHEXYLAMMONIUM	7023-27-0	None	None
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Ingredient Name	Percent	CAS #	EC no	Annex I
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THE FOLLOWING SUBSTANCES ARE PRESENT AS RESIDUAL COMPONENTS OF PRODUCTION.		None	None	None
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ETHYL ALCOHOL, <= 4 NON-DENATURED, 200 PROOF		64-17-5	200-578-6	None
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Symbols: F

R-Phrases: 11

Highly flammable.

METHANOL <= 1 67-56-1 200-659-6 603-001-00-X

Symbols: F-T

R-Phrases: 11-23/24/25-39/23/24/25

Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Formula	CH ₅ O ₄ P · 2C ₆ H ₁₃ N
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Molecular Weight	310.4 AMU
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4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Flush spill area with copious amounts of water.

7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep container closed.

Store at 2-8°C

SPECIAL REQUIREMENTS: Moisture sensitive.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

EXPOSURE LIMITS

Country Source	Type	Value
Poland	NDS	100 MG/M3
Poland	NDSCh	300 MG/M3
Poland	NDSP	-

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Use supplied-air or SCBA respirators. Europe permits the use of type AXBEK full-face cartridge respirators (EN 14387).

Special Protective Measures: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

9 - Physical and Chemical Properties

Appearance	Physical State: Solid
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Property	Value	At Temperature or Pressure
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pH	N/A
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BP/BP Range	N/A
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MP/MP Range	N/A
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Flash Point	N/A
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Flammability	N/A
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Autoignition Temp	N/A
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Oxidizing Properties	N/A
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Explosive Properties	N/A
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Explosion Limits	N/A
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Vapor Pressure	N/A
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Partition Coefficient	N/A
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Viscosity	N/A
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Vapor Density	N/A
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Saturated Vapor Conc.	N/A
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Evaporation Rate	N/A
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Bulk Density	N/A
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Decomposition Temp.	N/A
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Solvent Content	N/A
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Water Content	N/A
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Surface Tension	N/A
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Conductivity	N/A
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Miscellaneous Data	N/A
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Solubility	N/A
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	N/A
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10 - Stability and Reactivity

STABILITY

Stable: Stable.

Conditions to Avoid: Moisture.

Materials to Avoid: Oxidizing agents, Hydrogen peroxide, Acids, Acid chlorides, Alkali metals, Ammonia.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11 - Toxicological Information

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Gastro-intestinal disturbances. May cause convulsions. Can cause CNS depression. Narcotic effect. May damage to the heart.

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

TARGET ORGAN INFORMATION

Eyes. Kidneys. Liver. Heart. Central nervous system.

CHRONIC EXPOSURE - CARCINOGEN

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH,

NTP, or EPA classification.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with a federal, state, and local environmental regulations. Observe all federal, state, and local

14 - Transport Information

RID/ADR-hazardous for road transport

IMDG Non-hazardous for sea transport

IATA

Non-hazardous for air transport.

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

Classification: 22-24/25

Do not breath dust. Avoid contact with skin and eyes.

Not hazardous according to Directive 67/548/EEC.

Caution: Substance not yet fully tested (EU).

COUNTRY SPECIFIC INFORMATION

Germany

WGK-Classification

16 - Other Information

For R&D use only. Not for drug, household or other uses.

WARRANTY: 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 guaranteed of the product with regard to appropriate safety precautions. Appropriate safety precautions shall be taken. LookChem shall not be liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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