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| SECTION 1: Product Identification | | | | | |
|--|---|--------------|-----------------|----------------------|-----------------|
| Product name | Diethylchlorophosphine, 98% | | | | |
| CAS # | 686-69-1 | | | | |
| Catalog # | 0157600 | | | | |
| Chemical family | Halophosphine derivatives | | | | |
| SECTION 2: Composition, Information on Ingredients | | | | | |
| Component | % | CAS # | EINECS # | Hazard Symbol | R-Phrase |
| Diethylchlorophosphine | 98 | 686-69-1 | 211-689-4 | F C | 11 14 34 |
| SECTION 3: Hazard Identification | | | | | |
| Emergency overview | Highly flammable. Reacts violently with water. Causes burns. Air sensitive | | | | |
| Eye contact | Causes burns of the eyes. | | | | |
| Skin contact | Causes skin burns. | | | | |
| Inhalation | Causes chemical burns to the respiratory tract. | | | | |
| Ingestion | Causes gastrointestinal tract burns. | | | | |
| Chronic health effects | No information available. | | | | |
| SECTION 4: First Aid Measures | | | | | |
| Eye exposure | Immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately. | | | | |
| Skin exposure | Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists. | | | | |
| Inhalation | Remove from exposure to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, pain, etc. In such cases seek immediate medical assistance. | | | | |
| Ingestion | If victim is conscious, give 2-4 cupfuls of water. Get medical aid. | | | | |
| SECTION 5: Fire Fighting Measures | | | | | |
| General information | If this material is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing. Will burn if involved in a fire. Water Reactive. Material will react with water and may release a flammable and/or toxic gas. Flammable liquid and vapor. | | | | |
| Extinguishing media | DO NOT USE WATER! Use carbon dioxide, dry powder or foam | | | | |
| SECTION 6: Accidental Release Measures | | | | | |
| Spill and leak procedures | Small spills can be mixed with vermiculite or sodium carbonate and swept up. | | | | |

| SECTION 7: Handling and Storage | |
|---|---|
| Handling | Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood. |
| Storage | Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area. Store under nitrogen. |
| 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 gloves. |
| Ventilation | Handle the material in an efficient fume hood. |
| Respirator | If ventilation is not available a respirator should be worn. The use of respirators requires Respirator Protection Program to be in compliance with 29CFR 1910.134. |
| SECTION 9: Physical and Chemical Properties | |
| Appearance | Colorless to light yellow liq. |
| Odor | Pungent, acidic odor |
| Melting point | No data |
| Boiling point | 131-132 °C |
| Flash point | 18 °C (64.4 °F) |
| Specific gravity | 1.023 g/cm ³ |
| Molecular formula | C ₄ H ₁₀ CIP |
| Molecular weight | 124.55 |
| SECTION 10: Stability and Reactivity | |
| Stability | Air and moisture sensitive liquid. |
| Hazardous polymerization | No hazardous polymerization. |
| Conditions to avoid | Contact with ignition sources, air, moist, water. |
| Incompatibilities with other materials | Strong oxidizing agents, water. |
| Hazardous decomposition products | Carbon monoxide, carbon dioxide, phosphorus oxides, hydrogen chloride and organic fumes. |
| SECTION 11: Toxicological Information | |
| RTECS Data | No information available in the RTECS files. |
| Carcinogenic effects | No data available. |
| Mutagenic effects | No data available. |
| Tetratogenic effects | No data available. |
| SECTION 12: Ecological Information | |
| Ecological information | No information available. |
| SECTION 13: Disposal Considerations | |
| Dispose of in a manner consistent with federal, state, and local regulations. | |

| SECTION 14: Transport Information | |
|--|---|
| Shipping name (CFR) | WATER-REACTIVE LIQUID, CORROSIVE, N.O.S.* |
| Hazard class (CFR) | 4.3 |
| Additional hazard class (CFR) | 8 |
| Packing group (CFR) | II |
| UN ID number (CFR) | 3129 |
| Shipping name (IATA) | WATER-REACTIVE LIQUID, CORROSIVE, N.O.S.* |
| Hazard class (IATA) | 4.3 |
| Additional hazard class (IATA) | 8 |
| Packing group (IATA) | II |
| UN ID number (IATA) | 3129 |
| SECTION 15: Regulatory Information | |
| TSCA | Non listed in the TSCA inventory |
| SARA | Not reportable under SARA Title 313 |
| SECTION 16: Other Information | |
| Preparation date | 11.03.05 |
| Revision date | 20.03.12 |
| <p>The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.</p> | |