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TECHNO PHARMCHEM
An ISO 9001 : 2008 Certified Company
Registered Off. : 101-A, Deep Enclave, Pocket "D", Ashok Vihar, Phase-III, Delhi-110 052 (India)
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
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P - CRESOL

1. Product Identification
Synonyms: 4-methylphenol; 4-Cresol; 1-Hydroxy -4-Methylbenzene
CAS No.: 106-44-5
Molecular Weight: 108.14
Chemical Formula: CH_3C_6H4OH
Product Codes: 39317

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
p-Cresol	106-44-5	90 - 100%

3. Hazards Identification
Potential Health Effects

Inhalation: Breathing vapor, dust or mist results in digestive disturbances (vomiting, difficulty in swallowing, diarrhea, loss of appetite). Will irritate, possibly burn respiratory tract. Other symptoms listed under ingestion may also occur.
Ingestion: Poison. Symptoms may include burning pain in mouth and throat, abdominal pain, headache, dizziness, muscular weakness, irregular breathing, weak pulse, lung damage, liver damage, pancreas damage, kidney damage, coma, and possibly death from circulatory or cardiac failure.
Skin Contact: Corrosive. Causes severe pain followed by numbness. May be absorbed through the skin with systemic poisoning effects to follow. Discoloration and severe burns may occur.
Eye Contact: Vapors are irritating and may cause damage to the eyes. Contact may cause severe burns and permanent eye damage.
Chronic Exposure: Repeated exposure may cause symptoms described for acute poisoning as well as liver damage.
Aggravation of Pre-existing Conditions:
Persons with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of the substance.

4. First Aid Measures
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion: If swallowed, do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Skin Contact: Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures
Fire: Flash point: 86C (187F) CC Autoignition temperature: 559C (1038F) Flammable limits in air % by volume: lel: 1.1 Combustible Liquid and Vapor.
Explosion: Above flash point, vapor-air mixtures are explosive within flammable limits noted above.
Fire Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.
Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures
Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Solid Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container. Liquid Spills: Absorb with vermiculite, dry sand, earth or similar material and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer.

7. Handling and Storage
Keep in a tightly closed container. Store in a cool, dry, ventilated area away from sources of heat or ignition. Protect against physical damage. Store separately from reactive or combustible materials, and out of direct sunlight.

8. Exposure Controls/Personal Protection
Airborne Exposure Limits:
-OSHA Permissible Exposure Limit (PEL): 5 ppm (TWA) (skin), cresol, all isomers -ACGIH Threshold Limit Value (TLV): 5 ppm (TWA) (skin), cresol, all isomers
Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Respirators (NIOSH Approved): If the exposure limit is exceeded, a full facepiece respirator with organic vapor cartridge and dust/mist filter may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.
Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Eye Protection: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties
Appearance: Crystals or liquid becoming dark with age.
Odor: Phenolic odor.
Solubility: Slightly soluble in water.
Specific Gravity: 1.0178
pH: No information found.
% Volatiles by volume @ 21C (70F): 0
Boiling Point: 201C (394F)
Melting Point: 34.8C (95F)

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Vapor Density (Air=1): 3.72
Vapor Pressure (mm Hg): 1 @ 53C (127F)
Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity
Stability: Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products: May produce acrid smoke and irritating fumes when heated to decomposition.
Hazardous Polymerization: Will not occur.
Incompatibilities: Acids, bases, oxidizing agents.
Conditions to Avoid: Heat, flames, ignition sources and incompatibles.

11. Toxicological Information
Oral rat LD50: 207 mg/Kg;Inhalation rat LD50: >710 mg/m3; skin rabbit LD50: 301 mg/kg; investigated as a tumorigen, mutagen.

--------\Cancer Lists\----------

	---NTP Carcinogen---		
Ingredient	Known	Anticipated	IARC Category
p-Cresol (106-44-5)	No	No	None

12. Ecological Information
Environmental Fate: When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is not expected to evaporate significantly. When released into water, this material is expected to readily biodegrade. When released into water, this material is not expected to evaporate significantly. When released into the water, this material is expected to have a half-life between 1 and 10 days. This material has an experimentally-determined bioconcentration factor (BCF) of less than 100. This material has a log octanol-water partition coefficient of less than 3.0. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to be readily removed from the atmosphere by wet deposition. When released into the air, this material is expected to have a half-life of less than 1 day.
Environmental Toxicity: The LC50/96-hour values for fish are between 10 and 100 mg/l.

13. Disposal Considerations
Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information
Land

Proper Shipping Name: P - CRESOL
Hazard Class: 6.1 , 8
UN/NA: UN2076
Packing Group: II

Water

Proper Shipping Name: P-CRESOL
Hazard Class: 6.1, 8
UN/NA: UN2076
Packing Group: II

Air

Proper Shipping Name: P - CRESOL
Hazard Class: 6.1, 8
UN/NA: UN2076
Packing Group: II

15. Regulatory Information
SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No
Reactivity: No (Pure / Solid)

16. Other Information
Product Use:
Laboratory Reagent.