



Division of Vulcan Materials Company

MATERIAL SAFETY DATA SHEET

(ESSENTIALLY SIMILAR TO FORM OSHA-20)

SEE IMPORTANT NOTICE ON BOTTOM OF OTHER SIDE

24 Hour Emergency Phone (316) 524-5751

I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME AND ADDRESS

Vulcan Materials Company, Chemicals Division, P. O. Box 7689, Birmingham, AL 35253-0689

CHEMICAL NAME

Pentachlorophenol

CHEMICAL FORMULA

C_6Cl_5OH

TRADE NAME AND SYNONYMS

GLAZD® Penta, Block Penta, PCP

CHEMICAL FAMILY

Chlorinated Phenol

CAS REGISTRY NO.

87-86-5

DOT IDENTIFICATION NO.

NA 2020

II - HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT

Pentachlorophenol

Other Chlorinated Phenols

% (wt)

90

6

PEL (Units)

0.5mg/m³

III - PHYSICAL DATA

BOILING POINT (°F.)	527°F (275°C) (decomposes) 588°F (309°C)	SPECIFIC GRAVITY (H ₂ O=1)	flake bulk density = 70#/ft ³
VAPOR PRESSURE (mm Hg.)	0.00020 (20°C)	PERCENT, VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR=1)	9.2	EVAPORATION RATE	N/A
SOLUBILITY IN WATER	14ppm (20°C)	APPEARANCE AND ODOR	Light brown or tan solid; pungent odor when hot.

IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	Lower	Upper
		N/A		
EXTINGUISHING MEDIA	N/A			
SPECIAL FIRE FIGHTING PROCEDURES	Self-contained breathing equipment with full facepiece should be worn by personnel in the area.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	Exposure to fire may cause decomposition and produce hydrogen chloride, chlorine, and chlorinated hydrocarbons.			

V - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	None
INCOMPATIBILITY (Materials to avoid)	Strong oxidizers.		
HAZARDOUS DECOMPOSITION PRODUCTS	Hydrogen chloride, chlorine, chlorinated hydrocarbons.		
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

VI - HEALTH HAZARD DATA

OSHA PERMISSIBLE EXPOSURE LIMIT 0.5 mg/m^3 8 hour time weighted average (29 CFR Part 1910.1000)

ACGIH: 0.5 mg/m^3 8 hour TLV; 1.5 mg/m^3 15 min STEL.

EFFECTS OF OVEREXPOSURE

INHALATION:

Causes irritation to respiratory tract. Good warning properties at 0.3 mg/m^3 (coughing, sneezing). Painful at 1 mg/m^3 . May cause damage to liver, kidney and central nervous system.

SKIN CONTACT/ABSORPTION:

The dust causes irritation and may lead to chloracne. In solution, toxic amounts can be absorbed through the skin. It may be harmful to the liver, kidney and central nervous system.

INGESTION:

Toxic - symptoms may include: headache, high fever, dizziness, declining mental alertness. Persons with decreased liver or kidney functions are more susceptible to toxic effects.

EYES:

Burning sensation and irritation; continuous exposure can lead to corneal injury.

EMERGENCY AND FIRST AID PROCEDURES

EYES AND SKIN Flush with flowing water 15 minutes or more. Wash with mild soap and water. Recommend doctor examination. Remove contaminated shoes and clothes.

INHALATION Remove from exposure to fresh air. Use artificial respiration, if breathing stops. Get medical attention.

INGESTION If conscious, induce vomiting followed by gastric lavage with water and use of a saline cathartic. Send for a physician immediately.

VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Ventilate spill area. Use protective equipment when cleaning it up. Vacuum up dry penta and reuse if possible. Use inert absorbent for penta solution and put in non-leaking sealed containers. Toxic to fish and wildlife; do not allow to contaminate water.

WASTE DISPOSAL METHOD

Use hazardous waste landfill or EPA approved incineration. May have salvage value; contact manufacturer.

VIII - SPECIAL PROTECTION INFORMATION

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT Canister dust filter, MSHA- or NIOSH-approved. None needed
RESPIRATORY with adequate ventilation.

EYE Safety glasses-goggles-face shield. Do not wear contact lenses.

SKIN Solvent-resistant gloves, tightly woven full body covering.

OTHER Rubber suit and boots, protective headgear.

VENTILATION REQUIREMENTS

Sufficient to maintain below TLV and 90°F.

IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Protect containers from weather and keep dry. Contain runoff from product storage area and dispose of according to regulations. EPA recommended TWA of 0.4 mg/m^3 for manual dumping of containers. Periodic physical examinations are recommended.

OTHER PRECAUTIONS Keep dust and solution mist from contact with skin and eyes. Avoid breathing dust and mist. Report unusual health symptoms immediately.

DATE September 1982

VMC 3239

NOTICE: Vulcan Chemicals believes that the information contained on this Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all-inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements.

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