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p-Dichlorobenzene,

SECTION 1 : Identification of the substance/mixture and of the supplier		
Product name :	p-Dichlorobenzene,	
Manufacturer/Supplier Trade name:		
Manufacturer/Supplier Article number: S25299A		
Recommended uses of the product and uses re	estrictions on use:	
Manufacturer Details:		
AquaPhoenix Scientific 9 Barnhart Drive, Hanover, PA 17331		
Supplier Details:		
Fisher Science Education 15 Jet View Drive, Rochester, NY 14624		

Emergency telephone number:

Fisher Science Education Emergency Telephone No.: 800-535-5053

SECTION 2 : Hazards identification

Classification of the substance or mixture:



Eye irrit. cat 2 Carc. 2 Aquatic AcTox. 1 Aquatic Chr. 1

Signal word :Warning

Hazard statements:

Causes serious eye irritation Suspected of causing cancer Very toxic to aquatic life Very toxic to aquatic life with long lasting effects **Precautionary statements**: If medical advice is needed, have product container or label at hand Keep out of reach of children Read label before use Obtain special instructions before use Do not handle until all safety precautions have been read and understood Page 1 of 8

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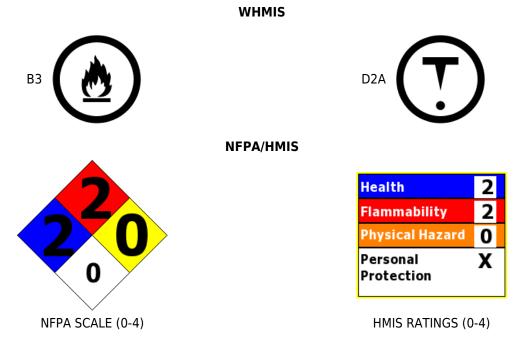
p-Dichlorobenzene,

Avoid release to the environment Do not eat, drink or smoke when using this product Wash skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection IF exposed or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing If eye irritation persists get medical advice/attention Collect spillage Store locked up Dispose of contents and container as instructed in Section 13

Combustible Dust Hazard: :

May form combustible dust concentrations in air (during processing).

Other Non-GHS Classification:



SECTION 3 : Composition/information on ingredients

Ingredients:		
CAS 106-46-7	p-Dichlorobenzene	100 %
Percentages are by weight		

SECTION 4 : First aid measures

Description of first aid measures

After inhalation: Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing difficult, give oxygen.

After skin contact: Wash affected area with soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if

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concerned.

After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

Most important symptoms and effects, both acute and delayed:

Irritation, Nausea, Headache, Shortness of breath.;

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.

SECTION 5 : Firefighting measures

Extinguishing media

Suitable extinguishing agents: If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Advice for firefighters:

Protective equipment: Use NIOSH-approved respiratory protection/breathing apparatus.

Additional information (precautions): Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.Use spark-proof tools and explosion-proof equipment.

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Transfer to a disposal or recovery container.Use spark-proof tools and explosionproof equipment.Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation.Keep away from ignition sources. Protect from heat.Stop the spill, if possible. Contain spilled material by diking or using inert absorbent.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13

Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures.Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor.Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Remove all sources of ignition. Provide ventilation.

Reference to other sections:

SECTION 7 : Handling and storage

Precautions for safe handling:

Minimize dust generation and accumulation. Wash hands after handling. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Follow good hygiene procedures when handling chemical materials. Do not eat, drink, smoke, or use personal products when handling chemical substances. If in a laboratory setting, follow Chemical Hygiene Plan.Use only in well ventilated areas.Avoid contact with eyes, skin, and clothing.

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p-Dichlorobenzene,

Conditions for safe storage, including any incompatibilities:

Store in a cool location. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents.Keep container tightly sealed.Store with like hazards

SECTION 8 : Exposure controls/personal protection





Control Parameters: Appropriate Engineering controls:	106-46-7, p-Dichlorobenzene, ACGIH 10 ppm TWA Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling.Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.Use under a fume hood. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
Respiratory protection:	Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable. Use adequate general or local exhaust ventilation keep airborne concentrations low. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.
Protection of skin:	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled.Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Eye protection:	Safety glasses with side shields or goggles.
General hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

SECTION 9 : Physical and chemical properties

Appearance (physical state,color):	White solid	Explosion limit lower: Explosion limit upper:	Not Determined Not Determined
Odor:	mothball - like - penetra ting odor	Vapor pressure:	1 mm Hg @ 25 deg C
Odor threshold:	Not Determined	Vapor density:	5.1

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pH-value:	Not Determined	Relative density:	1.458 @ 20°C
Melting/Freezing point:	53 C	Solubilities:	Insoluble in water
Boiling point/Boiling range:	174 C	Partition coefficient (n- octanol/water):	octanol/water: log Pow: 3.40
Flash point (closed cup):	65 C	Auto/Self-ignition temperature:	Not Determined
Evaporation rate:	Not Determined	Decomposition temperature:	Not Determined
Flammability (solid,gaseous):	Not Determined	Viscosity:	a. Kinematic:Not Determined b. Dynamic: Not Determined
Density: Not Determined			

SECTION 10 : Stability and reactivity

Reactivity:

Chemical stability:No decomposition if used and stored according to specifications.

Possible hazardous reactions:

Conditions to avoid:Store away from oxidizing agents, strong acids or bases.High temperatures, ignition sources, dust generation.

Incompatible materials: Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products: Hydrogen chloride, chlorine, carbon monoxide, carbon dioxide.

SECTION 11 : Toxicological information

Acute Toxicity:			
Oral:	2950 mg/kg	Oral LD50 Mouse	
Inhalation:	5.07 mg/kg	LC50 inhalation - rat	
Chronic Toxicity: No	additional information.		
Corrosion Irritation: No additional information.			
Sensitization:		No additional information.	
Single Target Organ (STOT):		No additional information.	
Numerical Measures:		No additional information.	
Carcinogenicity:		p-Dichlorobenzene: IARC: 2B - Group 2B: Possibly carcinogenic to humans. p-Dichlorobenzene: NTP: Reasonably anticipated to be a human carcinogen. p-Dichlorobenzene: OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	
Mutagenicity:		No additional information.	
Reproductive Toxicity:		No additional information.	

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SECTION 12 : Ecological information

Ecotoxicity

Pimephales promelas : 96 Hr LC50: 18 - 50 mg/L [static]
Pimephales promelas : 96 Hr LC50: 4 mg/L [flow-through]
Oncorhynchus mykiss : 96 Hr LC50: 1.05 - 1.2 mg/L [flow-through]
Oncorhynchus mykiss : 96 Hr LC50: 0.88 mg/L [static]
Lepomis macrochirus : 96 Hr LC50: 3.9 - 4.8 mg/L [static]
Persistence and degradability: Readily degradable in the environment.
Bioaccumulative potential:
Mobility in soil:
Other adverse effects:

SECTION 13 : Disposal considerations

Waste disposal recommendations:

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.

SECTION 14 : Transport information

UN-Number

3077

UN proper shipping name

Environmentally hazardous substance, solid, n.o.s. (1,4 - Dichlorobenzene)

Transport hazard class(es)

Class:

[®] 9 Miscellaneous dangerous substances and articles

Packing group:III Environmental hazard: Transport in bulk: Special precautions for user:

SECTION 15 : Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

Acute, Chronic

SARA Section 313 (Specific toxic chemical listings):

106-46-7 p-dichlorobenzene

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients are listed.

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CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

106-46-7 p-dichlorobenzene 100

Proposition 65 (California):

Chemicals known to cause cancer:

106-46-7 p-dichlorobenzene

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients is listed

SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.Note:. The responsibility to provide a safe workplace remains with the user.The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.The information contained herein is, to the best of our knowledge and belief, accurate.However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material.It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases:

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods PNEC: Predicted No-Effect Concentration (REACH) CFR: Code of Federal Regulations (USA) SARA: Superfund Amendments and Reauthorization Act (USA) RCRA: Resource Conservation and Recovery Act (USA) TSCA: Toxic Substances Control Act (USA) NPRI: National Pollutant Release Inventory (Canada) DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) Safety Data Sheet according to 29CFR1910/1200 and GHS Rev. 3

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HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) DNEL: Derived No-Effect Level (REACH)

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