

**Weiss Associates**

5500 Shellmound Street, Emeryville, CA 94608-2411

Environmental and Geologic Services

Fax: 510-547-5043 Phone: 510-547-5420

FAX TRANSMITTAL**CONFIDENTIALITY NOTICE**

This facsimile transmission contains confidential information intended only for use by the individual or entity named below. If you are not the intended recipient, you are hereby notified that any disclosure, copying, distribution or action taken in reliance on the contents of this transmission is strictly prohibited. If you have received this transmission in error, please call us immediately to arrange for the return of the original document.

TO: Mr. Paul Smith**FAX PHONE:** (510) 569-4757**COMPANY:** Alameda County Department
of Environmental Health**BUSINESS PHONE:** 271-4320**DATE:** May 12, 1993**FROM:** John Duey**PROJECT #:** 84-486-01**SUBJECT:** 458-46th Avenue, Oakland**# OF PAGES:** 7
(including this cover)**X Hard copy to follow if checked****COMMENTS & ACTIONS REQUIRED:**

Attached is the Site Safety Plan for the subsurface investigation at the subject site (The Learner Company). Please call if you have any questions.

Site Safety Plan

Date 5/12/93
Job # 84-428-01**A. Site Description**

Client: The Learner Company - 2711 Navy Drive, Stockton, California
 Location 700 - 48th Avenue at Coliseum Way, Oakland, California

Area affected yd x yd [X] 1.9 acres

Surrounding land use Residential Agricultural [X] Industrial Commercial

Topography Flat Hilly Open Excavation [X] Paved Unpaved

Weather conditions expected to be sunny and warm, not to exceed 80 degrees F.

B. Work to be Performed Drill soil borings to about 25 ft depth, collect soil samples, install ground water wells**C. On-Site Control** [X] A safe perimeter has been established. Its boundaries are defined by
 tape traffic cones [X] other Chain link fence around property
[X] The contamination reduction zone is designated as follows:
A steam cleaner will be set up north of the "seal house", about mid-site
[X] The support zone is designated as follows: In front of the drill rig if needed**D. Hazard Evaluation**

Concentration range in water (mg/l) and soils (mg/kg) are as shown.

Dust of 10 mg/m³ may have the indicated air concentrations in mg/m³ if generated from site soils.

Substance	Free-Phase	Ground Water	Soil	Air Conc.	TLV-TWA	IDLH
Petroleum Hydrocarbons	not found	not tested	28,000 ppm	TLV=200 ppm for baseline to IDLH est.		
Lead	not found	not tested	5,220 ppm	0.053-dust	0.10	700
Zinc	not found	not tested	6,620 ppm	0.068-dust	10	NA
PCBs	not found	not tested	25.2 ppm	0.00025-dust	0.001	5

Material Safety Data Sheets (MSDS) for the substances at the site are attached.

Air concentrations may exceed 10% of the Lower Explosive Limit (LEL).

Air concentrations may exceed OSHA Permissible Exposure Levels (PEL) 8 hour Time Weighted Average (TWA) for the following substances: lead if a dust concentration greater than 10 mg/m³ is generated by wind

General Safety Hazards

Underground utilities and/or process lines have been identified. A line detector survey is required.

Nitrogen cylinders or tanks will be used. Safety and operating instructions have been reviewed.

Personnel are aware of safety hazards associated with lifting heavy items, moving machinery parts, slipping, falling and operating or working near electrical equipment.

Confined space entry is required. All personnel have reviewed confined space entry procedures. A confined space entry checklist has been completed and it is attached to this plan.

E. Air Monitoring

The following air monitoring instruments shall be used on site at the specified intervals:

Combustible Gas Indicator _____

Oxygen Indicator _____

Organic Vapor Meter every 10 minutes during drilling

Color Tubes (Refer to Attached Flow Chart): _____

Substance	Concentration Range	Permit Standard
-----------	---------------------	-----------------

F. Personal Protective Equipment

The required personal protection level is D notes if visible dust is formed from wind, Level C.

Protective clothing materials for the involved substances are Nitrile gloves, long-sleeved shirt, steel-toed boots (sneakers if dusty).

Respiratory protection shall consist of Half-face respirator if winds create visible dust Protection Factor = 10.

The required respiratory cartridge is Organic Vapor/Acid Gas with High-Efficiency particulate filter.

This cartridge is expected to provide adequate protection for 8 hours.

All personnel at the site have been trained in the proper use and care of protective equipment.

G. Decontamination Procedures

Personnel and equipment leaving the site shall be decontaminated as follows:

Personnel: shower with soap and warm water same day. Equipment - steam-cleaned onsite

H. Heat Stress Monitoring

The expected air temperature will be 80° F. Adjusted air temperature

[Tad] = Tair(F) + (1.3 x % sunshine)] is not expected to exceed 85° F.

- A Health Alert Warning (air temperature likely to exceed 85° F) has [not] been issued by the weather service.
- Workers are trained to recognize heat stress symptoms.
- The Site Safety Officer will monitor pulse rate and temperature of workers showing signs of heat stress and modify the work schedule accordingly. A disposable oral thermometer is part of the field kit. No team member will work if his/her oral temperature exceeds 100.6° F.
- Drinking water and disposable cups are available during work.

I. Emergency Procedures

Personal Injury: The Site Safety Officer and Project Team Leader will evaluate the nature of the injury and contact an ambulance and the designated medical facility if required. An incident report form will be filed.

Fire/Explosion: The fire department shall be alerted if necessary. All personnel shall be moved to a safe distance from the involved area. There is not an alarm system at the facility. [] The client has explained to us the procedures to be followed if their alarm is activated.

Oral communications are possible at all times. [] A [horn] megaphone will be used to issue emergency signals.

Emergency escape routes have been identified as follows:

Southward through the gate at 50th Avenue

J. Emergency Medical Care

Hospital: Hurley General Hospital, at 1411 West 5th Street or 14th Avenue, Oakland (off Interstate 580), phone (415) 594-8055 is located 15 minutes from this location. A map of alternative routes to this facility is attached. First-aid equipment is available on site at the following locations:

<u>First-aid kit</u>	<u>In Weiss Associates vehicle</u>
<u>Emergency eye wash</u>	<u>In Weiss Associates vehicle</u>
<u>Other</u>	

List of emergency phone numbers:

<u>Agency/Facility</u>	<u>Phone #</u>	<u>Contact (if applicable)</u>
Police	911	
Fire	911	
Client	1-800-948-3188	Jack Necht

Any injuries sustained while working are covered under Worker's Compensation insurance. Any injured WA employee must inform the medical care facility that this is a worker's comp claim and that our policy is Fireman's Fund #8 CS WZP 5053 17 61. Copies of the Doctor's report on injury should be forwarded to our carrier Fireman's Fund, P.O. Box 1700, Belmont Park, CA 94007-2202. WA employees must also notify Brooke Abdelnoor at WA (510-462-8181) the same day so that this claim can be filed properly.

Any injured sub-contractor employee must be covered under their employer's policy. If they do not know their information, WA has certificates on file of the insurance policy for all approved sub-contractors.

Emergency medical information is presented in the attached MSDS.

All site personnel have read the plan and are familiar with its provisions. The following personnel are designated to carry out job functions at the site:

	<u>Name</u>	<u>Signature</u>
Project Team Leader	<u>Scott Nelson</u>	
Site Safety Officer	<u>Scott Nelson</u>	
Field Team Leader	<u>Scott Nelson</u>	
Field Team Member		
Field Team Member		
Field Team Member		
WA Office Advisor	<u>Robert Devany</u>	

I have read the attached Weiss Associates Safety Plan and am familiar with its provisions. I agree that any employee of this firm who enters this site will be notified of these provisions and procedures; and our firm will be responsible for making sure they abide by these provisions and procedures.

Subcontractor Acknowledgment

Firm Name: _____
 By: _____
 Title: _____
 Date: _____

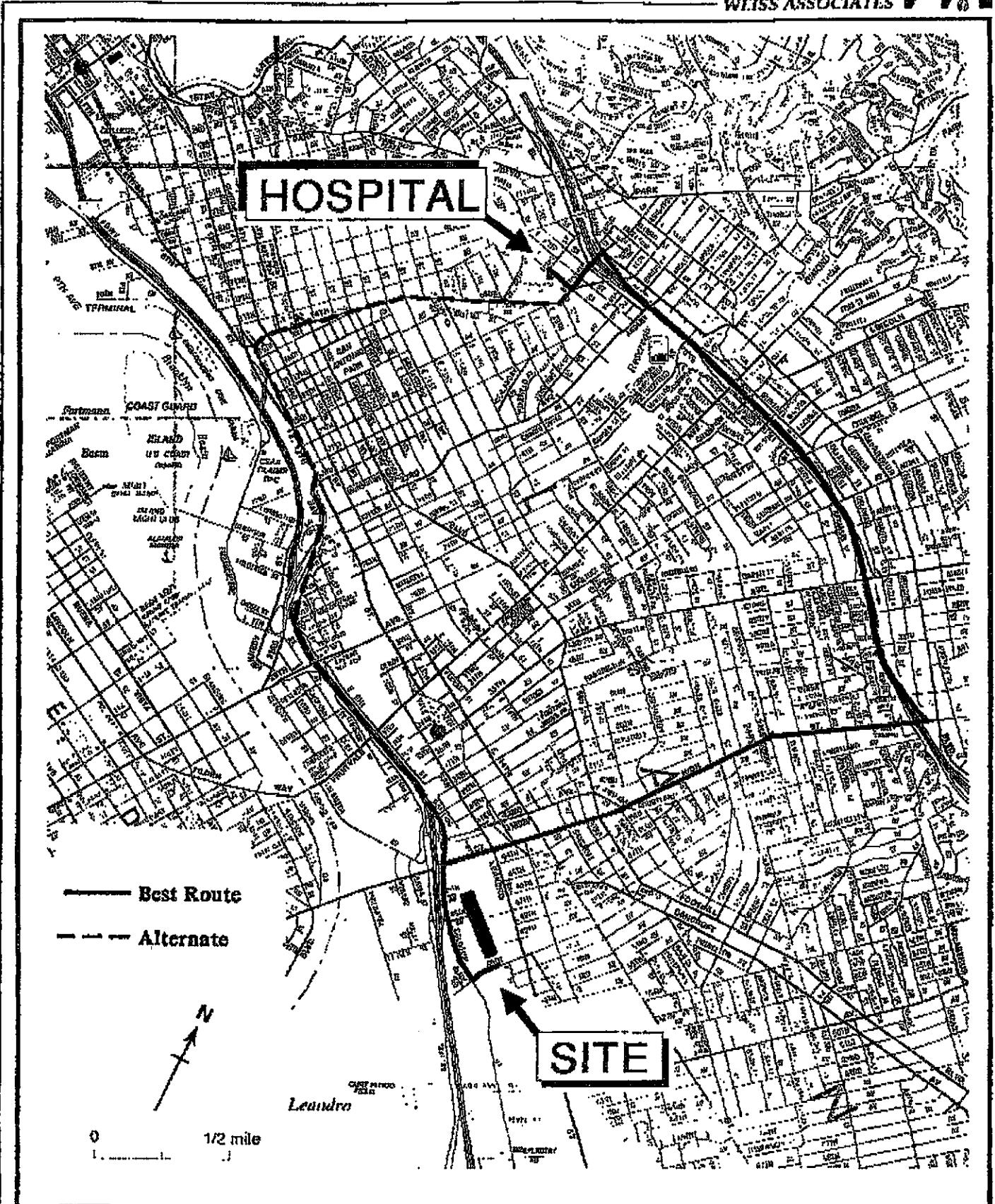


Figure 1. Hospital Route Map - The Learner Company, 768-46th Avenue, Oakland, California

GASOLINES: AUTOMOTIVE (<4.23g lead/gal)

GAT

Common Spontaneous Metal spkt Petrol	Water-soluble Flammable on water. Flammable, irritating vapor is produced.	Colorless to pale brown or pink	Gasoline odor		
Stop discharge if possible. Keep people away. Shut off ignition sources and call fire department. Stay upwind and take shelter away from "knock down" vapor. Ignite and remove charged material. Notify local health and pollution control agencies.					
FLAMMABLE					
Flashpoint above vapor and very near. Vapor may become flammable in air at room temp. Combustible with dry limestone, lime, or carbon dioxide. Water may be ineffective on fire. Cool exposed containers with water.					
Fire					
CALL FOR MEDICAL AID					
INHALATION: Irritating to eyes, nose and throat. If inhaled, will cause constriction, bronchitis, difficult breathing or loss of consciousness. Move fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. SKIN: Irritating to skin and eyes. If contaminated, will cause irritation or vomiting. Remove contaminated clothing and shoes. Pour water over affected area. DO NOT USE LIQUID SOAP. If on LYES, hold eyelids open and flush with plenty of water. IF SWALLOWED: and water is CONSCIOUSNESS, have victim drink water or milk. DO NOT INDUCE VOMITING.					
HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if it enters water bodies. Notify local health and wildlife officials. Notify operators of nearby water intakes.					
1. EXPOSURE TO DISCHARGE Gasoline Mixture (nonaromatic Isobutane/High Octane/Alky Emissions Only) Deposits and fish		2. DILUTE Category: Flammable liquid Class: 3			
3. CHEMICAL DESIGNATIONS 3.1 CG Compatibility Class: Noncombustible Hydrocarbon Mixtures 3.2 Formula: Alkane of hydrocarbons 3.3 DPGAIN Designation: 0.1/1953 3.4 DOT ID: 1002 3.5 IATA Regency: 900 Data not available					
4. OBSERVABLE CHARACTERISTICS 4.1 Physical State (as shipped): Liquid 4.2 Color: Colorless to brown 4.3 Odor: Gasoline					
5. HEALTH HAZARDS 5.1 Personal Protective Equipment: Protective glasses, gloves. 5.2 Symptoms Following Exposure: Irritation of mucous membranes and stimulation followed by depression of central nervous system. Irritation of vapor may also cause dizziness, headache, and unconsciousness or, in more severe cases, bronchitis, cough, and respiratory arrest. If liquid enters lungs, it will cause severe irritation, coughing, gagging, pulmonary edema, and, after signs of hydrocephalus and pneumonia, drowning may cause longer survival. 5.3 Treatment of Exposure: Inhalation: remove exposure and administer oxygen. Inhaler and rest if liquid is in lungs. INGESTION: DO NOT induce vomiting; stomach should be lavaged by doctor or HOSPITALIST rapidly or emesis should be induced. EYES: wash with copious quantity of water. SKINS: wipe off and wash with soap and water. 5.4 Threshold Limit Value: 800 ppm. 5.5 Short Term Inhalation Limits: 600 ppm for 30 min. 5.6 Toxicity by Ingestion Grade: 2 LD ₅₀ = 0.5 to 5 g/kg. 5.7 Skin Irritancy: None. 5.8 Vapor (Gas) Inhalation Characteristics: Vapor causes a slight irritation of the eyes or respiratory system if present in high concentrations. The effect is temporary. 5.9 Liquid or Solid Irritancy Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause staining and discoloring of the cloth. 5.10 Odor Threshold: 0.23 ppm. 5.11 IR/MS: Data not available.					

A. FIRE HAZARDS 6.1 Flash Point: -30°F C.G. 6.2 Flammable Limits in Air: 1.4%-7.4% 6.3 Fire Extinguishing Agents: Foam, carbon dioxide, dry chemical		B. HAZARD ASSESSMENT CODE (See Hazard Assessment Handbook) A-T-U-V-W		
C. REACTIVITY CLASSIFICATIONS				
11.1 Class of Reaction: Inert/Inert Explosive Agent Special Hazard of Combustion Products: None			D. TRANSPORTATION INFORMATION	
Transportation Category				
11.2 UN Number: 1280 Radioactive: No Health: 3 Vapor Inhibit.: 1 Liquid or Solid Inhibit.: 1 Poison: 2			E. WATER POLLUTION	
11.3 IATA Number: 1280 Category: Corrosive Classification: 1 Health Hazard (Skin): 1 Flammability (Peroxidable): 2 Reactivity (Vapors): 0				
F. CHEMICAL REACTIVITY				
7.1 Reactivity with Water: No reaction 7.2 Reactivity with Common Oxidizers: No reaction				
7.3 Stability: Stable 7.4 Neutralizing Agents for Acids and Bases: Not required				
7.5 Polymerization: Not polymerized 7.6 Initiator of Polymerization: Not perform				
7.7 Autoxidation: Susceptible to Peroxide: Data not available				
7.8 Sensitivity: Susceptible to Impact: 33				
G. PHYSICAL AND CHEMICAL PROPERTIES				
12.1 Physical State at 17°C and 1 atm: Liquid				
12.2 Molecular Weight: Not pertinent Boiling Point at 1 atm: 140-200°F = 60-93°C = 133-97°C				
12.3 Freezing Point: Not pertinent Critical Temperature: Not pertinent Critical Pressure: Not pertinent Specific Gravity: 0.7521 at 20°C (Liquid)				
12.4 Heat of Combustion: -10,700 Kcal/mole = 45,300 KJ/mole at 20°C				
12.5 Heat of Fusion: 40-51 dyne/cm = 0.040-0.051 KJ/m at 20°C				
12.6 Heat of Vaporization: 120-150 KJ/m = 28-35 Kcal/mole = 3.0-3.8 x 10 ⁴ J/kg				
12.7 Heat of Condensation: -10,700 Kcal/mole = -45,300 KJ/mole at 20°C				
12.8 Heat of Decomposition: Not pertinent Heat of Solution: Not pertinent				
12.9 Heat of Polymerization: Not pertinent Heat of Fusion: Data not available				
12.10 Melting Point: Heat of Fusion: Data not available Heat of Vaporization: 7.4 psu				
H. SHIPPING INFORMATION				
12.11 Grades of Particulate: Various grades ranging: military specifications				
12.12 Shipping Temperature: Ambient Heat of Atmosphere: Not pertinent				
12.13 Venting: Open (Burro canister) & 200°F/70°C maximum				
NOTES				

NO LEAD SULFATE SUSPECTED ON SITE - LEAD OXIDE,

METALLIC LEAD

LEAD SULFATE

NOTE: INFO ON HEALTH EFFECTS ARE

CONTRIBUTED TO METALLIC LEAD

LSF

<p>CURRENT SYNONYMS</p> <p>Anglissite Lead oxide II Pb white Pb oxide white lead Lanthanite Lead bottome; milk white</p> <p>Solid powder</p> <p>STATE</p> <p>DESCRIPTION</p> <p>Avoid contact with eyes and mouth. Keep people away. Wear respirator, well-ventilated breathing apparatus and rubber gloves. Stop discharge of granular. Handle and transport discharged material. Notify local health and pollution control agencies.</p> <p>Water</p> <p>Not flammable.</p> <p>Exposure</p> <p>CALL FOR MEDICAL AID. DUST OR FOG DIOXINIC ACID POISONOUS IF INGESTED. Inhalation by eyes. If swallowed will cause abdominal pain, nausea, vomiting, headache and respiratory difficulties. Move to fresh air. IF IN EYES, hold eyelids open and flush with plenty of water. Flush affected areas with plenty of water. IF INHALATION: Hold nose CONSCIOUS, have person drink water or tea and induce vomiting.</p> <p>Water Pollution</p> <p>HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if enter water bodies. Notify local harbors and wildlife officials. Notify operators of nearby waste waters.</p>											
<p>1. RESPONSE TO INHALATION (See Response Methods Handbook)</p> <p>Inhalation - wear respirator, coveralls, respirator mask. Should be removed. Chemical and physical treatment.</p>	<p>2. LABEL</p> <p>2.1 Category: Corrosive 2.2 Class: 6</p>	<p>3. PHYSICAL PROPERTIES</p> <p>3.1 Physical State (as shipped): Solid</p> <p>3.2 Color: White</p> <p>3.3 Odor: None</p>	<p>4. OSMOTIC CHARACTERISTICS</p> <p>4.1 Physical State (as shipped): Solid</p> <p>4.2 Color: White</p> <p>4.3 Odor: None</p>								
<p>5. HEALTH HAZARDS</p> <p>5.1 Personal Protective Equipment: Wear approved fiber mask, rubber gloves, and safety glasses. Symptoms: Irritating. Exposure: INHALATION: Jolt and muscle pain, headache, dizziness and myopia. Withdrawal: Impairment of function, muscle cramps, tremors or stiffness, blisters. Heavy concentrations: Skin damage. Steps: Progressing to coma - with or without convulsions, other death. Inhibition, confusion, and muscle tone changes. Overdose: pressure may be increased. S7280: Exposed & yielded patient remains and general intelligence of the victim may decrease. Absorption: skin, lungs, intestine, mucous membranes, bone of epiphyses, muscular weakness, tremors, fits due to gaseous irritant tests, reflexes and vomiting.</p> <p>5.2 Treatment of Exposure: Get medical aid. INHALATION: Remove from source of exposure and keep quiet. RINSE: Wash with running water. EYES: Wash with soap and water. INGESTION: Wash mouth, give emetics from syringe until (at greater or hot water); get medical attention. Threshold Limit Value: 0.13 mg/m³</p> <p>5.3 Short Term Inhalation Limit: 0.45 mg/m³.</p> <p>5.4 Toxicity by ingestion: Grade 3 LD50 = 50 to 500 mg/kg.</p> <p>5.5 Lethal Toxicity: Irritating, irritating, irritability, nervousness, incoordination, vague pains in the arm, legs, joints, and abdomen. Sensory disturbances of extremities, impaired or extensive loss of arms and legs with wrist and foot drop. Disturbance of menstrual cycle, and diarrhea. Periods of stupor or lethargy, unconsciousness (with visual disturbances), elevated blood pressure, convulsions, mental status psychosis, delusions, hallucinations, and coma.</p> <p>5.6 Vapor (Gas) Inerted Characteristics: Data not available</p> <p>5.7 Liquid or Solid Inerted Characteristics: Data not available</p> <p>5.8 Skin Irritation: Data not available</p> <p>5.9 H2H Value: Data not available</p>	<p>6. FIRE HAZARDS</p> <p>6.1 Flash Point: Not performed</p> <p>6.2 Flammability Limits in Air: Not determinable</p> <p>6.3 Fire Extinguishing Agents: Not performed</p> <p>6.4 Fire Extinguisher Agents Not to be Used: Not performed</p> <p>6.5 Special Hazards of Combustion Products: Product: Data not available</p> <p>6.6 Deflagration: Fire: Not performed</p> <p>6.7 Ignition Temperature: Not performed</p> <p>6.8 Electrical Firebreak: Not required</p> <p>6.9 Burning Rate: Not determinable</p> <p>6.10 Autoignition Temperature: Data not available</p> <p>6.11 Blackpowder: Air to Fuel Ratio: Data not available</p> <p>6.12 Flame Temperature: Data not available</p>	<p>II. HAZARD ASSESSMENT CODE (See Hazard Assessment Handbook)</p> <p>63</p>	<p>II. HAZARD CLASSIFICATIONS</p> <p>II.1 Code of Federal Regulations: Corrosive material</p> <p>II.2 NBS Hazard Rating for Bulk Water Transportation: Not listed</p> <p>II.3 NFPA Hazard Classification</p> <table> <thead> <tr> <th>Category</th> <th>Classification</th> </tr> </thead> <tbody> <tr> <td>Health Hazard (Hazard)</td> <td>4</td> </tr> <tr> <td>Flammability (F+)</td> <td>0</td> </tr> <tr> <td>Reactivity (R+)</td> <td>0</td> </tr> </tbody> </table>	Category	Classification	Health Hazard (Hazard)	4	Flammability (F+)	0	Reactivity (R+)	0
Category	Classification										
Health Hazard (Hazard)	4										
Flammability (F+)	0										
Reactivity (R+)	0										
<p>7. CHEMICAL REACTIVITY</p> <p>7.1 Reactivity with Water: No reaction</p> <p>7.2 Reactivity with Common Materials: Data not available</p> <p>7.3 Stability During Transport: Data not available</p> <p>7.4 Neutralizing Agents for Acids and Bases: Data not available</p> <p>7.5 Polymerization: Data not available</p> <p>7.6 Initiator of Polymerization: Data not available</p> <p>7.7 Water Solubility (Relative to Product): Data not available</p> <p>7.8 Reactivity Groups: Data not available</p>	<p>8. PHYSICAL AND CHEMICAL PROPERTIES</p> <p>8.1 Physical State at 10°C and 1 atm: Solid</p> <p>8.2 Molecular Weight: 303.29</p> <p>8.3 Boiling Point at 1 atm: Data not available</p> <p>8.4 Freezing Point: 1130°F = 593.2°C = 1461.2°F</p> <p>8.5 Critical Temperature: Data not available</p> <p>8.6 Critical Pressure: Data not available</p> <p>8.7 Specific Gravity: 0.8 at room temperature</p> <p>8.8 Liquid Surface Tension: Not performed</p> <p>8.9 Liquid Viscosity: Intermediate Transition: Not performed</p> <p>8.10 Vapor (Max) Specific Gravity: 10.48 (calculated)</p> <p>8.11 Rate of Specific Heats of Vapor (Data): Not performed</p> <p>8.12 Latent Heat of Vaporization: Data not available</p> <p>8.13 Heat of Sublimation: Not performed</p> <p>8.14 Heat of Decomposition: Data not available</p> <p>8.15 Heat of Solution: Data not available</p> <p>8.16 Heat of Polymerization: Data not available</p> <p>8.17 Heat of Fusion: 31.8 cal/g</p> <p>8.18 Limiting Oxygen: Data not available</p> <p>8.19 Heat of Vaporization: Data not available</p>	<p>9. SHIPPING INFORMATION</p> <p>9.1 Codes of Practice: GHS to 20.7% PDI</p> <p>9.2 Storage Temperature: Data not available</p> <p>9.3 Inert Atmosphere: Data not available</p> <p>9.4 Venting: Data not available</p>	<p>NOTES</p>								

POLYCHLORINATED BIPHENYL

PCB

Common Synonyms PCB Chlorinated biphenyl Aroclor Aroclor 1016 Poly-chlorobiphenyl		Oil liquid or solid powder Solen in water.	Light yellow liquid, or white powder	Weak odors	
		Stop discharge if possible. Keep people away. Avoid contact with liquid and solid. Call fire department. Isolate and contain discharged material. Notify local health and pollution control agencies.			
Fire		Combustible. Fibers ignitable with water, heat, dry chemical, or carbon dioxide.			
Exposure		CALL FOR MEDICAL ADVICE Liquid on skin: Wash immediately with plenty of water. If in eyes, hold eyelids open and flush with plenty of water.			
Water Pollution		HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if enters water bodies. Notify local health and wildlife officials. Notify operators of nearby water intakes.			
1. RESPONSE TO DISCHARGE (See Response Methods Handbook) In case of water contamination: Should be removed Chemical and physical treatment		2. LABEL 2.1 Category: None 2.2 Class: Not pertinent			
3. CHEMICAL DESIGNATIONS		4. OBSERVABLE CHARACTERISTICS			
3.1 CG Compatibility: Class Not Rated 3.2 Formula: (C ₁₂ H ₁₀) _n 3.3 IEC/UN Designation: Not Rated 3.4 DOT ID No.: 2015 3.5 CAS Registry No.: 1266-59-0		4.1 Physical State (as shipped): Liquid or solid 4.2 Color: Poly yellow (light); colorless (solid) 4.3 Odor: Practically odorless			
5. HEALTH HAZARD		6. WATER POLLUTION			
6.1 Personal Protective Equipment: Gloves and protective garments. Symptoms Following Exposure: Agonizing skin contact. Treatment of Exposure: Rinse with soap and water. 6.2 Threshold Limit Value: 0.0 to 1.0 mg/m ³ . Short Term Tolerance Limits: Data not available. 6.3 Toxicity by Ingestion: Grade 2 oral LD ₅₀ > 3000 mg/kg. 6.4 Lethal Dose: Causes chloroformated monomeric in rats, both adults & kids. 6.5 Vapor (Gas) Inhalation: Chlorobiphenyl vapors cause severe irritation of eyes and throat and cause eye and lung injury. They cannot be tolerated even at low concentrations. 6.6 Liquid or Solid Ingestion Characteristics: Contact with skin may cause irritation. 6.7 Other Threshold Data: not available. 6.8 LD ₅₀ Values: 0 to 10 mg/kg.		6.1 Aquatic Toxicity: 0.270 ppm/96 hr./mg/L/T _{1/2} = 1000 water 0.005 ppm/24h-1000 mg/L/T _{1/2} = 1000 water 6.2 Bioaccumulation Factor: LD ₅₀ 2000 ppm (methyl chlo) 6.3 Biological Oxygen Demand (BOD): Very low 6.4 Fugacity Concentration Potential: High			
7. FIRE HAZARD		7.1 Flash Point: > 200°F Flammable Limits in Air: Data not available 7.2 Fire Extinguishing Agents: Water, foam, dry chemical, or carbon dioxide.			
8. EXPLOSIVE HAZARD		7.3 Fire Extinguishing Agents: Not to be used. Upset fire fighters 8.1 Special Hazards of Combustion: Products containing gases are generated in fire. 8.2 Detonation in Fire: Not pertinent 8.3 Ignition Temperature: Data not available 8.4 Flammability: Not pertinent 8.5 Burning Rate: Data not available 8.6 Autoignition Temperature: Data not available 8.7 Stochiometric Air to Fuel Ratio: Data not available 8.8 Flame Temperature: Data not available			
9. REACTIVITY		9.1 Reactivity with Water: No reaction 9.2 Reactivity with Common Materials: No reaction 9.3 Stability During Transport: Stable 9.4 Neutralizing Agents for Acids and Bases: Not pertinent 9.5 Polymerization: Not pertinent 9.6 Initiator of Polymerization: Not pertinent 9.7 Molar Ratio (Reactants to Products): Data not available 9.8 Flammability Groups: Data not available			
10. HAZARD ASSESSMENT CODE (See Hazard Assessment Handbook)		10.1 Code of Federal Regulations: OTSG-E 10.2 KAS Hazard Rating for Bulk Water Transportation: Not listed 10.3 NFPA Hazard Classification: Not listed			
11. HAZARD CLASSIFICATIONS		11.1 Code of Federal Regulations: OTSG-E 11.2 KAS Hazard Rating for Bulk Water Transportation: Not listed 11.3 NFPA Hazard Classification: Not listed			
12. PHYSICAL AND CHEMICAL PROPERTIES		12.1 Physical State at 25°C and 1 atm: Solid 12.2 Molecular Weight: Not pertinent 12.3 Boiling Point at 1 atm: Very high 12.4 Freezing Point: Not pertinent 12.5 Critical Temperature: Not pertinent 12.6 Critical Pressure: Not pertinent 12.7 Specific Gravity: 1.0-1.0 at 20°C (liquid) 12.8 Liquid Surface Tension: Not pertinent 12.9 Liquid Water Interfacial Tension: Not pertinent 12.10 Vapor (Gas) Specific Gravity: Not pertinent 12.11 Ratio of Specific Gravity of Vapor (Gas): Not pertinent 12.12 Latent Heat of Vaporization: Not pertinent 12.13 Heat of Combustion: Not pertinent 12.14 Heat of Detonation: Not pertinent 12.15 Heat of Solution: Not pertinent 12.16 Heat of Polymerization: Not pertinent 12.17 Heat of Fusion: Data not available 12.18 Unloading Volume: Data not available 12.19 Total Vapor Pressure: Data not available			
13. SHIPPING INFORMATION		13.1 Grades of Purity: 11 grades (from liquid, semi-solid) which differ primarily in chlorobiphenyl content (20%–60% by weight) 13.2 Storage Temperature: Ambient 13.3 Inert Atmosphere: No requirement 13.4 Venting: Open			
NOTES					