# **Material Safety Data Sheet**

Date Printed: 09/12/2008 Date Updated: 02/03/2006 Version 1.40

## Section 1 - Product and Company Information

Product Name Product Number Brand POLYAROMATIC HYDROCARBONS MIXTURE FOR CLP QTM STATEMENT OF WORK

Emergency Phone:

47930-U

Supelco Chemical

Company Street Address City, State, Zip, Country Sigma-Aldrich

3050 Spruce Street SAINT LOUIS, MO 63103 US

Technical Phone:

800-325-5832 800-325-5052 314-776-6555

## Section 2 - Composition/Information on Ingredient

Substance Name	CAS#	<u>OSHA</u>	SARA 313	EC no	Annex I Index Number
QTM PAH MIX	None	Yes	Yes		HAIIBAL
Ingredient Name	CAS#	Perc			3
DICHLOROMETHANE	75-09-2	>= 97 <= 100	.000 % Yes	Yes	
BENZ(E)ACEPHENANTHRYLENE	205-99-2	0	200 %	Yes	
BENZO(A)PYRENE	50-32-8	0	200 %	Yes	
CHRYSÈNE	218-01-9	0	200 %	Yes	
1,2-BENZANTHRACENE	56-55-3	0	200 %	Yes	
FLUORENE	86-73-7	0	200 %		
ACENAPHTHENE	83-32-9	0	.200 %	No	
1-12-BENZOPERYLENE	191-24-2	0	200 %	Yes	
FLUORANTHEN, PESTANAL	206-44-0	0	200 %	Yes	
PHENANTHRENE	85-01-8	0	200 %	Yes	
NAPHTHALENE	91-20-3		200 %	Yes	
1,2:5,6-DIBENZANTHRACENE	53-70-3		200 %	Yes	
ACENAPHTHYLENE	208-96-8		200 %	No	
2-BROMONAPHTHALENE	580-13-2		200 %		
ANTHRACENE	120-12-7	-	200 %	Yes	
PYRENE	129-00-0	0	200 %	Yes	

Formula Synonyms

## Section 3 - Hazards Identification

#### **Emergency Overview**

Toxic.

May cause cancer, May cause sensitization by skin contact Irritating to eyes, respiratory system and skin. Toxic by inhalation, in contact with skin and if swallowed. May cause harm to the unborn child May impair fertility.

Confirmed Carcinogen (US) OSHA carcinogen. Readily absorbed through skin. Target organ: heart because methylene chloride is converted to carbon monoxide in the body. Target organ: central nervous system because of possible dizziness, headache, loss of consciousness and death at high concentrations.

HMIS Rating Health: 2\*

Flammability: 1

Reactivity: 1

**NFPA Rating** 

Health: 2 Flammability: 1

Reactivity: 1

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

#### Section 4 - First Aid Measures

#### **Oral Exposure**

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

#### Inhelation Exposure

If inhaled, remove to fresh air, If not breathing give artificial respiration. If breathing is difficult, give oxygen.

#### Dermal Exposure

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing anshoes. Call a physician.

#### Eve Exposur

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers, Call a physician.

## Section 5 - Fire Fighting Measures

**AutoIgnition Temp:** 

N/A

## **Extinguishing Media**

#### Suitable

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be effective. Cool all affected containers with flooding quantities of water.

## Firefighting

### Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

#### Specific Hezard(s)

Emits toxic fumes under fire conditions.

## Section 6 - Accidental Release Measures

## Procedure to be Followed in Case of Leak or Spill

Evacuate area,

## Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloved/Vear disposable coveralls and discard them after use.

#### Methods for Cleaning Up

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

## Section 7 - Handling and Storage

## Handling

Page 2

## User Exposure

Do not breathe vapor Do not get in eyes, on skin, on clothing Avoid prolonged or repeated exposure For protection and handling requirements consult CFR title 29 part 1910.1052.

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Suitable

Keep tightly closed. Store in a cool dry place. Store under nitrogen. Store at 2-8°C

Special Requirements

Heat sensitive

## Section 8 - Exposure Controls / PPE

### **Engineering Controls**

Use only in a chemical fume hood Safety shower and eye bath,

#### Personal Protective Equipment

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU) Use supplied-air or SCBA respirators. Europe permits the use of type AXBEK fullface cartridge respirators (EN 14387).

Compatible chemical-resistant gloves

Eye

Chemical safety goggles.

### General Hygiene Measures

Wash contaminated clothing before reuse Wash thoroughly after handling.

### Section 9 - Physical/Chemical Properties

NI/A

N/A

N/A

N/A

N/A

#### Appearance

Physical State

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Liquid

Molecular Weight	N/A
	NI/A
pH	N/A
BP/BP Range	N/A
MP/MP Range	N/A
Freezing Point	N/A
Vapor Pressure	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
SG/Density	N/A
Bulk Density	N/A
Odor Threshold	N/A
Volatile%	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Partition Coefficient	N/A
Decomposition Temp.	N/A
Flash Point °F	N/A

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Solubility

N/A

N/A = not available

## Section 10 - Stability and Reactivity

### Stability

Stable

Stable

Conditions to Avoid

Heat

Materials to Avoid

Alkali metals, Aluminum,

## Hazardous Decomposition Products

**Hazardous Decomposition Products** 

Carbon monoxide, Carbon dioxide, Hydrogen chloride gas, Phosgene gas

#### Hazardous Polymerization

Hazardous Polymerization

Will not occur.

## Section 11 - Toxicological Information

## Route of Exposure

Skin Contact

Causes skin irritation.

Skin Absorption

May be harmful if absorbed through the skin.

**Eve Contact** 

Causes eye irritation.

Inhalation

May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract,

Ingestion

Harmful if swallowed.

## Target Organ(s) or System(s)

Target organ: heart because methylene chloride is converted to carbon monoxide in the bodyTarget organ: central nervous system because of possible dizziness, headache, loss of consciousness and death at high concentrations liver. Pancreas.

## Signs and Symptoms of Exposure

Dichloromethane is metabolized in the body producing carbon monoxide with increases and sustains carboxyhemoglobin levels in the blood, reducing the oxygencarrying capacity of the blood. A simple asphyxiant, exposure can cause anesthetic action, difficulty in breathing, headache, and dizziness. Prolonged or repeated contact with skin can cause defatting and dermatitis. Contact with eyes can cause redness, tearing, and blurred vision. Ingestion may cause gastrointestinal irritationCNS depression. Paresthesia. Somnolence. Convulsions. Conjunctivitis. Pulmonary edema. Effectsmay be delayed Irregular breathing. Ingestion can cause gastrointestinal disorders, nausea, and vomiting. Increased liver enzymes. Drowsiness.

## Conditions Aggravated by Exposure

Existing data suggests that methylene chloride may be a weak mutagen in mammalian systems.

RTECS Number: N/A

#### Chronic Exposure - Carcinogen

Result: This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGINTP, or EPA classification.

## Chronic Exposure - Teratogen

Result: Possible risk of congenital malformation in the fetus.

#### Chronic Exposure-Reproductive Hazard

Result: May cause reproductive disorders.

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Page 4

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Page 3

Flash Point °C

Flammability

**Explosion Limits** 

Autoignition Temp

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

### Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material Observe all federal, state, and local environmentalregulations.

#### Section 14 - Transport Information

Proper Shipping Name: Dichloromethane

UN#: 1593 Class: 6.1

Packing Group: Packing Group III Hazard Label: Toxic Substance

PIH: Not PIH

#### IATA

Proper Shipping Name: Dichloromethane

IATA UN Number: 1593 Hazard Class: 6.1 Packing Group: |||

## Section 15 - Regulatory Information

## **EU Additional Classification**

Symbol of Danger: T Indication of Danger

Toxic.

**Risk Statements** 

R: 45 52/53

May cause cancer, Harmful to aquatic organisms, may cause longterm adverse effects in the aquatic environment,

S: 53 45 61 Safety Statements

Restricted to professional users. Attention- Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) Avoid release to the environment. Refer to special instructions/safety data sheets.

#### **US Classification and Label Text**

Indication of Danger

Toxic.

### Risk Statements

May cause cancer. May cause sensitization by skin contact. Irritating to eyes, respiratory system and skin. Toxic by inhalation, in contact with skin and if swallowed. May cause harm to the unborn child. May impair fertility.

Avoid exposure - obtain special instructions before use. Do not breathe vapor. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advicemmediately (show the label where possible).

Confirmed Carcinogen (US). OSHA carcinogen. Readily absorbed through skin. Target organ: heart because methylene chloride is converted to carbon monoxide in the body. Target organ: central nervous system because of possible dizziness, headache, loss of consciousness and death at high concentrations

#### United States Regulatory Information

SARA Listed: Yes

Notes: This product is or contains a component that is subject to SARA313 reporting requirements.

OSHA regulated - see CFR title 29 part 1910.1052.

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## United States - State Regulatory Information

California Prop - 65

This product is or contains chemical(s) known to the state of California to cause cancer.

#### Canada Regulatory Information

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

### Section 16 - Other Information

For R&D use only. Not for drug, household or other uses.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present stated our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigm@ldrich Inc., shall not be held liable for any damage resulting from handling or forn contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.



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Page 6

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Page 5