



SIGMA-ALDRICH

Material Safety Data Sheet

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Version 1.40

Section 1 - Product and Company Information

Product Name POLYAROMATIC HYDROCARBONS MIXTURE FOR CLP QTM STATEMENT OF WORK
Product Number 47930-U
Brand Supelco Chemical

Company Sigma-Aldrich
Street Address 3050 Spruce Street
City, State, Zip, Country SAINT LOUIS, MO 63103 US
Technical Phone: 800-325-5832
Fax: 800-325-5052

Emergency Phone: 314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	OSHA	SARA 313	EC no	Annex I Index Number
QTM PAH MIX	None	Yes	Yes		
Ingredient Name	CAS #	Percent	OSHA	SARA 313	
DICHLOROMETHANE	75-09-2	>= 97.000 % <= 100.000 %	Yes	Yes	
BENZ(E)ACEPHENANTHRYLENE	205-99-2	0.200 %		Yes	
BENZO(A)PYRENE	50-32-8	0.200 %		Yes	
CHRYSENE	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	
FLUORANTHENE, PESTANAL	206-44-0	0.200 %		Yes	
PHENANTHRENE	85-01-8	0.200 %		Yes	
NAPHTHALENE	91-20-3	0.200 %		Yes	
1,2,5,6-DIBENZANTHRACENE	53-70-3	0.200 %		Yes	
ACENAPHTHYLENE	208-96-8	0.200 %		No	
2-BROMONAPHTHALENE	580-13-2	0.200 %			
ANTHRACENE	120-12-7	0.200 %		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.

Inhalation 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 and shoes. Call a physician.

Eye Exposure

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 Hazard(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 gloves. Wear 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

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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Storage**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**Respiratory**

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).

Hand

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**Appearance****Physical State**

Liquid

Molecular Weight N/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

Flash Point °C N/A

Explosion Limits N/A

Flammability N/A

Autoignition Temp N/A

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.

Eye 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 body. Target 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 which increases and sustains carboxyhemoglobin levels in the blood, reducing the oxygen carrying 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 irritation, CNS depression, Paresthesia, Somnolence, Convulsions, Conjunctivitis, Pulmonary edema. Effects may 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, ACGIH/NTP, or EPA classification.

Chronic Exposure - Teratogen

Result: Possible risk of congenital malformation in the fetus.

Chronic Exposure - Reproductive Hazard

Result: May cause reproductive disorders.

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 environmental regulations.

Section 14 - Transport Information

DOT

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: III

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.

Safety Statements S: 53 45 61

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.

Safety Statements

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 advice immediately (show the label where possible).

US Statements

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 Remarks

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

Disclaimer

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

Warranty

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 state of 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. SigmaAldrich Inc., shall not be held liable for any damage resulting from handling or form contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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