



## SAFETY DATA SHEET

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 - Product Identifiers

Catalog Name: PCB-DUTCH7

Description: Dutch Seven PCBs Standard in Isooctane

#### 1.2 - Relevant Identified Uses of the Substance or Mixture

Laboratory Chemical Reference Material

#### 1.3 - Supplier Details

Company: AccuStandard, Inc.  
125 Market St.  
New Haven, CT 06513 USA

Telephone Number: 203-786-5290

Fax: 203-786-5287

Email: edocs@accustandard.com

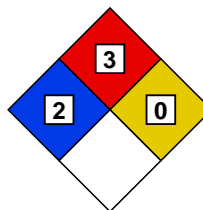
#### 1.4 - Emergency Telephone Number

Emergency Phone #: AccuStandard, Inc.  
1-203-502-7070 (USA)  
+001-203-502-7070 (International)

24 hours / 7 days a week

### SECTION 2 - HAZARDS IDENTIFICATION

#### 2.1 - GHS Label Elements



2	HEALTH
3	FLAMMABILITY
0	PHYSICAL HAZARD

**Signal Word:** Danger

#### **Hazard Codes:**

H225 - Highly Flammable (Flammable liquids, category 2)

H302 - Harmful if swallowed. (Acute toxicity, oral, category 4)

H304 - Aspiration hazard if swallowed - may be fatal if swallowed and enters airways. (Aspiration hazard, category 1)

H315 - Irritating to skin. (Skin corrosion/irritation, category 2)

H319 - Causes severe eye irritation. (Eye damage/irritation, category 2A)

H335 - May be irritating to mucous membrane and upper respiratory system. (Specific target organ toxicity, single exposure; Respiratory tract irritation, category 3)

H336 - Vapors may cause drowsiness and dizziness. (Specific target organ toxicity, single exposure; Narcotic effects, Category 3)

H400 - Very toxic to aquatic life.

**SECTION 2 - HAZARDS IDENTIFICATION** - continued**2.1 - GHS Label Elements** - continued

H413 - May cause long-term adverse effects in the aquatic environment.

**Precautionary Codes:**

P202 - This product should only be used by persons trained in the safe handling of hazardous chemicals.

P233 - Store in a tightly closed container. (P404)

P260 - Do not breathe vapor.

P262 - Do not get in eyes, on skin or clothing.

P264 - Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

P280 - Protective gloves must be worn to prevent skin contact.

P284 - Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

P331 - Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

P338 - Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

P352 - Skin contact: Wash thoroughly with soap and water. Get medical attention if irritation develops or persists.

**2.2 - Other Hazards****2.2.1 - Symptom of Exposure Health/Environment**

Highly Flammable (Flammable liquids, category 2)

Vapors may cause drowsiness and dizziness. (Specific target organ toxicity, single exposure; Narcotic effects, Category 3)

Aspiration hazard if swallowed - may be fatal if swallowed and enters airways. (Aspiration hazard, category 1)

Isooctane has produced kidney damage in rats in a subchronic oral laboratory study.

Very toxic to aquatic life. (H400)

May cause long-term adverse effects in the aquatic environment. (H413)

**2.2.2 - Potential Health Effects**

Causes severe eye irritation. (Eye damage/irritation, category 2A)

Irritating to skin. (Skin corrosion/irritation, category 2)

May be harmful if absorbed through the skin. (Acute toxicity, dermal, category 5)

May be irritating to mucous membrane and upper respiratory system. (Specific target organ toxicity, single exposure; Respiratory tract irritation, category 3)

May be harmful if inhaled. (Acute toxicity, inhalation, category 5)

Harmful if swallowed. (Acute toxicity, oral, category 4)

**2.2.3 - Routes of Entry**

Inhalation, ingestion or skin contact.

**2.2.4 - Carcinogenicity**

California Proposition 65 Warning: This product contains a component (or components) that may cause cancer and genetic effects in a concentration less than 0.1%.

**SECTION 2 - HAZARDS IDENTIFICATION** - continued**2.2 - Other Hazards** - continued**2.2.4 - Carcinogenicity** - continued

Contains one or more components that are classified (ACGIH, IARC, NTP, OSHA) as a possible cancer hazard in quantities less than 0.1%.

**SECTION 3 - COMPOSITION / ANALYTES DATA**

Description: Dutch Seven PCBs Standard in Isooctane

Analyte	CAS #	% Concentration	ACGIH -TLV (mg/m <sup>3</sup> )			OSHA -PEL (mg/m <sup>3</sup> )		
			TWA	STEL	Skin	TWA	STEL	Skin
2,4,4'-Trichlorobiphenyl	7012-37-5	0.001						
2,2',5,5'-Tetrachlorobiphenyl	35693-99-3	0.001						
2,2',4,5,5'-Pentachlorobiphenyl	37680-73-2	0.001						
2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	0.001	0.5	1.0				
2,2',3,4,4',5'-Hexachlorobiphenyl	35065-28-2	0.001						
2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	0.001						
2,2',3,4,4',5,5'-Heptachlorobiphenyl	35065-29-3	0.001						
Isooctane	540-84-1	99.993						

**SECTION 4 - FIRST AID MEASURES****4.1 - First Aid Procedures - General**

Get medical assistance for all cases of overexposure.

**4.2 - Eye Contact**

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. (P338)

**4.3 - Skin Contact**

Skin contact: Wash thoroughly with soap and water. Get medical attention if irritation develops or persists. (P352)

**4.4 - Inhalation**

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

**4.5 - Ingestion**

Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. (P331)

**SECTION 5 - FIRE FIGHTING MEASURES****5.1 - Flammable Properties**

Dangerous fire hazard.

Containers can build up pressure if exposed to heat.

**SECTION 5 - FIRE FIGHTING MEASURES** - continued**5.1 - Flammable Properties** - continued

Vapors can travel to a source of ignition and flash back.

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**5.2 - Extinguishing Media**

Use alcohol foam, carbon dioxide, dry chemical, or water spray when fighting fires involving this material.

**5.3 - Protection of Firefighters**

As in any fire, wear self-contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES****6.1 - Spill Response**

Wear suitable protective equipment listed under Exposure Controls / Personal Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if this can be done without risk. Dispose as hazardous waste. Comply with Federal, State and local regulations.

**SECTION 7 - HANDLING AND STORAGE**

Store in a tightly closed container. (P404)

Store in a cool area away from ignition sources and oxidizers.

Do not breathe vapor. (P260)

Use with adequate ventilation.

Do not get in eyes, on skin or clothing. (P262)

Avoid prolonged or repeated exposure.

Electrically ground all equipment when handling this product.

This product should only be used by persons trained in the safe handling of hazardous chemicals. (P202)

**SECTION 8 - EXPOSURE CONTROLS****8.1 - Engineering Controls/PPE**

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available. (P264)

**8.2 - General Hygiene Considerations**

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

Material must be handled or transferred in an approved fume hood or with equivalent ventilation.

Protective gloves must be worn to prevent skin contact. (P280)

(Nitrile or equivalent)

Use eye protection tested and approved under the appropriate government standards such as NIOSH (US) or EN 166 (EU).

**SECTION 8 - EXPOSURE CONTROLS** - continued**8.2 - General Hygiene Considerations** - continued

All recommendations are advisory only and must be evaluated by an industrial hygienist and/or safety officer familiar with the specific situation of anticipated use, such as concentration and amount of the substance in the workplace. Any recommendation should not be construed as offering an approval for any specific use of the product.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Clear liquid

Odor: Mild odor

Odor Threshold: N/A

pH: N/A

Melting Point: -107.3 °C

Boiling Point: 99.2 °C

Flash Point: 10.4 °F (-12 °C) (cc)

Evaporation Rate (Butyl Acetate=1): >1

Flammability Class: N/A

Lower Flammability Level: 1.00

Upper Flammability Level: 6.00

Vapor Pressure: 41 mmHg (21 °C)

Vapor Density (Air = 1): 3.93

Specific Gravity: 0.691 g/cm<sup>3</sup>

Solubility in Water: Insoluble

Partition Coefficient: N/A

Autoignition Temperature: 396 °C

Decomposition Temperature: N/A

Viscosity: N/A

VOC Content: N/A

Percent Volatile: 99+

**SECTION 10 - STABILITY AND REACTIVITY**

Stability: Stable

Materials to Avoid: Oxidizers

Hazardous Decomposition: Oxides of carbon

Hazardous Polymerization: Will not occur

Condition to Avoid: Heat; Contact with ignition sources

**SECTION 11 - TOXICOLOGICAL INFORMATION****Human Health Toxicity**

See section 2 for specific toxicological information for the ingredients of this product.

LD50 (Oral): N/A

LD50 (Dermal) : N/A

LC50 (Inhalation): N/A

**SECTION 11 - TOXICOLOGICAL INFORMATION** - continued

Aspiration hazard if swallowed - may be fatal if swallowed and enters airways. (Aspiration hazard, category 1)

WARNING: This product contains chemical(s) known to the state of California to cause cancer and to cause birth defects or other reproductive harm.

No other information related to the toxicological properties of this product is available at this time.

**SECTION 12 - ECOLOGICAL INFORMATION****Environmental Toxicity**

By complying with sections 6 and 7 there should be no release to the environment.

LC50 (Fish): 0.11 mg/L 96H

EC50 (Aquatic Invertebrate): 0.4 mg/L 48H

BCF: N/A

Not readily biodegradable

No other information related to the ecological properties of this product is available at this time.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

**SECTION 14 - TRANSPORT INFORMATION**Transportation Information (DOT/IATA)

UN Number: UN1262

Class: 3

Packing Group: II

Proper Shipping Name: Octanes

Poison by Inhalation: No

Marine Pollutant: No

**SECTION 15 - REGULATORY INFORMATION**

All components are listed on the TSCA Inventory.

WARNING: This product contains chemical(s) known to the state of California to cause cancer and to cause birth defects or other reproductive harm.

**For laboratory, research and development use only. Not for manufacturing or commercial purposes.**

In addition to federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

**SECTION 16 - OTHER INFORMATION**

This document has been designed to meet the requirements of OSHA, ANSI, GHS and CHIPs regulations. Chemicals are classified using the Globally Harmonized System for Classification and Labeling of Chemicals and CLP Regulation (EC) No. 1272/2008.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. The manufacturer will not assume any liability for the accuracy and completeness of this information. Final determination of the suitability of the material is the responsibility of the user. Although certain hazards are described herein, the user should not presume that these are the only hazards that exist. Since conditions and manner of use are outside of the manufacturers control, we make

**NO WARRANTY OF MERCHANTABILITY, EXPRESSED OR IMPLIED, AND ASSUME NO LIABILITY  
RESULTING FROM ITS USE.**

Legend : N/A = Not Available    ND = Not Determined    NR = Not Regulated

Alteration of any information contained herein without written permission from the manufacturer is strictly prohibited.

**HMIS/NFPA HAZARD INDEX**

- 0 - Minimal
- 1 - Slight
- 2 - Moderate
- 3 - Serious
- 4 - Severe

\* - Additional Hazard

**GHS HAZARD INDEX**

Category 1 - Most Severe  
Category 5 - Least Severe

\*\*\*\* End of Document \*\*\*\*