

## SAFETY DATA SHEET

Preparation Date: 12/7/2017

Revision Date: 12/7/2017

Revision Number: G1

### 1. IDENTIFICATION

**Product identifier**

**Product code:** HE164  
**Product Name:** HEXACHLOROPHENE, USP

**Other means of identification**

**Synonyms:** 2,2',3,3',5,5'-Hexachloro-6,6'-dihydroxydiphenylmethane  
 2,2'-Dihydroxy-3,3',5,5',6,6'-hexachlorodiphenylmethane  
 2,2'-Dihydroxy-3,5,6,3',5',6'-hexachlorodiphenylmethane  
 2,2'-Methylenebis(3,4,6-trichlorophenol)  
 3,3',4,4',6,6'-Hexachloro-2,2'-methylendiphenol  
 Bis(2-hydroxy-3,5,6-trichlorophenyl)methane  
 Bis(3,5,6-Trichloro-2-hydroxyphenyl)methane  
 Hexachlorophen

**CAS #:** 70-30-4  
**RTECS #** SM0700000  
**CI#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1

**Label elements**

## Danger

### Hazard statements

Toxic if swallowed  
Harmful in contact with skin  
Fatal if inhaled  
Suspected of damaging fertility or the unborn child  
Causes damage to organs through prolonged or repeated exposure



### Hazards not otherwise classified (HNOC)

Not Applicable

### Other hazards

Very toxic to aquatic life with long lasting effects  
Very toxic to aquatic life

### Precautionary Statements - Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not breathe dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Wear respiratory protection

### Precautionary Statements - Response

IF ON SKIN: Wash with plenty of water  
Call a POISON CENTER or doctor/physician if you feel unwell  
Wash contaminated clothing before reuse  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Rinse mouth

### Precautionary Statements - Storage

Store locked up  
Store in a well-ventilated place. Keep container tightly closed

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Hexachlorophene	70-30-4	100

## 4. FIRST AID MEASURES

### First aid measures

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**General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. If skin irritation persists, call a physician.

**Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Toxic if swallowed. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**

- May cause skin irritation in sensitive individuals
- May cause increased sensitivity of skin to sunlight
- May cause eye irritation
- May cause irritation of respiratory tract
- Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea
- Abdominal pain
- May cause loss of appetite
- Dehydration
- Thirst
- Dryness of mouth
- Sweating
- Weakness
- May cause cyanosis
- May affect the liver
- It may affect the kidneys
- May cause central nervous system effects
- May affect the cardiovascular system
- May cause decreased urination
- May affect eyes/vision
- May cause pupillary constriction

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray mist or foam.

**Unsuitable Extinguishing Media:** No information available.

## Specific hazards arising from the chemical

**Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide. Hydrogen chloride.

**Specific hazards:** May be combustible at high temperatures.

## Special Protective Actions for Firefighters

**Specific Methods:** No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

#### **Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed. Keep in a well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

#### **Incompatible Materials:**

Strong oxidizing agents  
Bases

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

### National occupational exposure limits

#### United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Hexachlorophene	70-30-4	None	None	None	None

#### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Hexachlorophene	70-30-4	None	None	None	None

#### Australia and Mexico

Components	CAS-No.	Australia	Mexico
Hexachlorophene	70-30-4	None	None

### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

**Eye protection:** Safety glasses with side-shields or Goggles

**Skin and body protection:** Long sleeved clothing  
Chemical resistant apron  
Gloves

**Respiratory protection:** Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical state:

Solid

#### Appearance:

Crystalline powder.

#### Color:

White. Light Tan.

#### Odor:

Odorless. Slight phenolic.

#### Taste

Tasteless.

#### Formula:

C<sub>13</sub>H<sub>6</sub>Cl<sub>6</sub>O<sub>2</sub>

#### Molecular/Formula weight:

Product code: HE164

Product name:  
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406.90

**Flash Point Tested according to:**  
Not available

**Upper Explosion Limit (%):**  
No information available

**Boiling point/range(°C/°F):**  
No information available

**Specific gravity:**  
No information available

**Evaporation rate:**  
No information available

**Odor threshold (ppm):**  
No information available

**Miscibility:**  
No information available

**Flammability:**  
No information available

**Autoignition Temperature (°C/°F):**  
No information available

**Melting point/range(°C/°F):**  
164-165 °C/327.2-329 °F

**Bulk density:**  
No information available

**pH:**  
No information available

**Vapor density:**  
No information available

**Partition coefficient  
(n-octanol/water):**  
log Kow = 7.54

**Solubility:**  
Practically insoluble in water  
Soluble in Chloroform

**Flashpoint (°C/°F):**  
No information available.

**Lower Explosion Limit (%):**  
No information available

**Decomposition temperature(°C/°F):**  
No information available

**Density (g/cm3):**  
No information available

**Vapor pressure @ 20°C (kPa):**  
No information available

**VOC content (g/L):**  
No information available

**Viscosity:**  
No information available

## 10. STABILITY AND REACTIVITY

### Reactivity

No information available

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Avoid dust formation. Incompatible materials.

**Incompatible Materials:** Strong oxidizing agents  
Bases

**Hazardous decomposition products:** Carbon monoxide. Carbon dioxide. Hydrogen chloride.

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**  
Ingestion. Inhalation. Skin.

### Acute Toxicity

**Product code:** HE164

**Product name:**  
HEXACHLOROPHENE, USP

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## Component Information

Hexachlorophene	
CAS-No.	70-30-4

**LD50/oral/rat** = 56 mg/kg Oral LD50 Rat

**LD50/oral/mouse** = 67 mg/kg

**LD50/dermal/rabbit** = No information available

**LD50/dermal/rat** = 1840 mg/kg Dermal LD50

**LC50/inhalation/rat** = No information available

**LC50/inhalation/mouse** = No information available

**Other LD50 or LC50 information** = 250 mg/kg LDL oral Child; 200 mg/kg LDL oral Human

## Product Information

**LD50/oral/rat** =

**VALUE- Acute Tox Oral** = 56 mg/kg

**LD50/oral/mouse** =

**Value - Acute Tox Oral** = 67 mg/kg

**LD50/dermal/rabbit**

**VALUE-Acute Tox Dermal** = No information available

**LD50/dermal/rat**

**VALUE -Acute Tox Dermal** = 1840 mg/kg

**LC50/inhalation/rat**

**VALUE-Vapor** = No information available

**VALUE-Gas** = No information available

**VALUE-Dust/Mist** = No information available

**LC50/Inhalation/mouse**

**VALUE-Vapor** = No information available

**VALUE - Gas** = No information available

**VALUE - Dust/Mist** = No information available

## Symptoms

### **Skin Contact:**

May cause skin irritation. May cause skin irritation in sensitive individuals. In persons with highly sensitive skin, it may at times produce a reaction characterized by redness and/or mild scaling or dryness. May cause increased sensitivity of the skin to sunlight. May cause light sensitivity which appears as a skin rash when exposed to sunlight.

### **Eye Contact:**

May cause eye irritation.

### **Inhalation**

May cause irritation of respiratory tract.

### **Ingestion**

May cause loss of appetite. May cause gastrointestinal distress. May cause dehydration. May cause dry mouth, thirst. May cause abdominal pain. May cause vomiting. May cause diarrhea. May cause excessive sweating. May cause weakness. May cause cyanosis. May affect liver. May affect urinary system (kidneys). May affect behavior/central nervous system (convulsions/seizures). May affect behavior/central nervous system (somnolence). May affect behavior/central nervous system (dizziness, headache). May affect behavior/central nervous system (lethargy, fatigue). May affect behavior/central nervous system (confusion). It may affect behavior/central nervous system (irritability). It may

cause twitching or tremors/trembling. May cause fainting. May cause blurred or foggy vision. May affect eyes (pupillary constriction). May affect cardiovascular system (hypotension, cardiac arrhythmias). May affect respiration (respiratory depression).

**Ingestion:** May cause decreased urination, lightheadedness, cold clammy skin, facial twitching, diplopia

**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** Chronic exposure may affect the liver. Prolonged or repeated ingestion may affect behavior/central nervous system. Repeated exposure to Hexachlorophene may cause brain damage with paralysis and blindness. Prolonged or repeated inhalation may cause asthma-like allergy and asthma attacks with shortness of breath, difficulty breathing, wheezing, coughing, and/or chest tightness.

**Sensitization:** No information available.

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not classifiable as to its carcinogenicity to humans.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Hexachlorophene	70-30-4	Group 3 - Not Classifiable - Supplement 7 [1987] Monograph 20 [1979]	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** Suspected of damaging fertility or the unborn child

**Reproductive Effects:** No information available

**Developmental Effects:** No information available

**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

**Target Organs:** Liver. Nervous system.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment. No data available.



Hexachlorophene - 70-30-4

**Freshwater Fish Species Data:** 0.019 - 0.023 mg/L LC50 Pimephales promelas 96 h flow-through 1

**Persistence and degradability:** No information available

**Bioaccumulative potential:** Potential for bioconcentration in aquatic organisms is moderate.

**Mobility:** Expected to be immobile in soil based on estimated Koc.

### 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Hexachlorophene	70-30-4	None	None	None	U132

### 14. TRANSPORT INFORMATION

#### DOT

**UN-No:** UN2875  
**Proper Shipping Name:** Hexachlorophene  
**Hazard Class:** 6.1  
**Subsidiary Class:** No information available  
**Packing group:** III  
**Emergency Response Guide Number:** 151  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions:** IB8, IP3, T1, TP33  
**Symbol(s):** No information available  
**Description:** UN2875, Hexachlorophene, 6.1, III

#### TDG (Canada)

**UN-No:** UN2875  
**Proper Shipping Name:** Hexachlorophene  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant:** No Information available  
**Description:** UN2875, Hexachlorophene, 6.1, III

#### ADR

**UN-No:** UN2875  
**Proper Shipping Name:** Hexachlorophene  
**Hazard Class:** 6.1  
**Packing Group:** III  
**Subsidiary Risk:** No information available  
**Description:** UN2875, Hexachlorophene, 6.1, III, ENVIRONMENTALLY HAZARDOUS

#### IMO / IMDG

**Product code:** HE164

**Product name:**  
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**UN-No:** UN2875  
**Proper Shipping Name:** Hexachlorophene  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant:** No information available  
**EMS:** F-A  
**Description:** UN2875, Hexachlorophene, 6.1, III, Marine pollutant

**RID**

**UN-No:** UN2875  
**Proper Shipping Name:** Hexachlorophene  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** UN2875, Hexachlorophene, 6.1, III, ENVIRONMENTALLY HAZARDOUS

**ICAO**

**UN-No:** UN2875  
**Proper Shipping Name:** Hexachlorophene  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** UN2875, Hexachlorophene, 6.1, III

**IATA**

**UN-No:** UN2875  
**Proper Shipping Name:** Hexachlorophene  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**ERG Code:** 6L  
**Special Provisions:** No information available  
**Description:** UN2875, Hexachlorophene, 6.1, III

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Hexachlorophene	70-30-4	Present SP	Not present	Present	Present (4)-88	Present	Present	Present 200-733-8

**U.S. Regulations**

*Hexachlorophene*

- Massachusetts RTK: Present
- New Jersey RTK Hazardous Substance List: 0983
- New Jersey (EHS) List: 0983 500 lb TPQ
- New Jersey - Discharge Prevention - List of Hazardous Substances: Present
- Pennsylvania RTK: Environmental hazard
- Pennsylvania RTK - Environmental Hazard List Present
- New York Release Reporting - List of Hazardous Substances: 1 lb RQ
- Louisiana Reportable Quantity List for Pollutants: Listed
- California Directors List of Hazardous Substances: Present

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Hexachlorophene	70-30-4	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Hexachlorophene	70-30-4	100 lb final RQ 45.4 kg final RQ	None	None	None	1.0 % de minimis concentration

**U.S. TSCA**

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Hexachlorophene	70-30-4	Not Applicable	Not Applicable

**Canada****WHMIS 2015 - GHS Classifications**

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

**WHMIS 1988 Hazard Class**

D1B Toxic materials

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Hexachlorophene	0.1 %

**Inventory**

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Hexachlorophene	70-30-4	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Hexachlorophene	70-30-4	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Hexachlorophene	70-30-4	Not listed

**EU Classification**

EU GHS - SV - CLP 1272/2008

Product code: HE164

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HEXACHLOROPHENE, USP

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Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Hexachlorophene	70-30-4	Acute toxicity - Oral - Acute Tox. 3: H301 Toxic if swallowed. (Minimum classification); Acute toxicity - Dermal - Acute Tox. 3: H311 Toxic in contact with skin. (Minimum classification); Hazardous to aquatic environment - acute hazard - Aquatic Acute 1: H400 Very toxic to aquatic life.; Hazardous to aquatic environment - chronic hazard - Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects.604-015-00-9

**EU - CLP (1272/2008)**

**R-phrase(s)**

R50 - Very toxic to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

R24/25 - Toxic in contact with skin and if swallowed.

**S -phrase(s)**

S20 - When using do not eat or drink.

S37 - Wear suitable gloves.

S60 - This material and its container must be disposed of as hazardous waste.

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 1/2 - Keep locked up and out of the reach of children.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Hexachlorophene	70-30-4	T; R24/25 N; R50-53	2%<=C T; R24/25 0.2%<=C<2% Xn; R21/22	S1/2 S20 S37 S45 S60 S61

**The product is classified in accordance with Annex VI to Directive 67/548/EEC**

**Indication of danger:**

T - Toxic

N - Dangerous for the environment.

Xn - Harmful.



**16. OTHER INFORMATION**

**Preparation Date:** 12/7/2017  
**Revision Date:** 12/7/2017  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may

pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**