

This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

Revision date 07-Nov-2023 Revision Number 1

# 1. Identification

**Product identifier** 

Product Name PCB No. 108

Other means of identification

Product Code(s) DRE-C20010800

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Laboratory use

Restrictions on use Not to be used for human or animal consumption

Details of the supplier of the safety data sheet

### **Supplier Address**

VHG LGC Standards 276 Abby Road Manchester, NH 03103 UNITED STATES OF AMERICA

Tel:+1 (603) 622-7660 Fax:+1 (603) 622-5180 Email: lgcusa@lgcgroup.com

Web: Igcstandards.com

E-mail sds-request@lgcgroup.com

#### Emergency telephone number

## **Emergency Telephone**

For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970

# 2. Hazard(s) identification

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### Classification

Classified according to OSHA.

Carcinogenicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2
Chronic aquatic toxicity	Category 1

# Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

### Danger

### Hazard statements

Classified according to OSHA.

May cause cancer

May cause damage to organs through prolonged or repeated exposure

Very toxic to aquatic life with long lasting effects



# **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Do not breathe dust/fume/gas/mist/vapors/spray

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

### **Precautionary Statements - Storage**

Store locked up

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### Other information

Very toxic to aquatic life.

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# 3. Composition/information on ingredients

Substance

Formula C12 H5 Cl5

Chemical name	CAS No.	Weight-%	Trade secret
2,3,3´,4,5´-Pentachlorobiphenyl	70362-41-3	100	*

## 4. First-aid measures

Description of first aid measures

General advice IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the

doctor in attendance.

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

**Ingestion** Rinse mouth.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

5. Fire-fighting measures

surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

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**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge

Special protective equipment and

precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required. Evacuate

personnel to safe areas.

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

# 7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Please refer to the manufacturer's certificate for specific storage and transport temperature

conditions. Store only in the original receptacle unless other advice is given on the CoA.

# 8. Exposure controls/personal protection

Control parameters

**Exposure Limits** 

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Chemical name	ACGIH TLV	OSHA PEL	NIOSH
2,3,3´,4,5´-Pentachlorobiphenyl	-	-	TWA: 0.001 mg/m <sup>3</sup>
70362-41-3			_

#### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### **Appropriate engineering controls**

Engineering controls Showers

Eyewash stations Ventilation systems.

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

**Eye/face protection** Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves. The protective gloves to be used must comply with the specifications

of EC Directive 89/686/EEC and the related standard EN374.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Wear protective Viton™			
	gloves		

**Skin and body protection**Wear suitable protective clothing.

exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

General hygiene considerations Wash hands before breaks and immediately after handling the product. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands

before breaks and after work. Wear suitable gloves and eye/face protection.

## 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid
Appearance Crystalline
Color white

Odor No information available Odor threshold No information available

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<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

No data available None known pН Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known Flash point No data available None known **Evaporation rate** No data available None known **Flammability** No data available None known Flammability Limit in Air None known

**Upper flammability or explosive** No data available

limits

Lower flammability or explosive No data available

limits

No data available Vapor pressure None known Relative vapor density No data available None known Relative density No data available None known Water solubility No data available None known No data available Solubility(ies) None known **Partition coefficient** 6.72 None known **Autoignition temperature** No data available None known

Decomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other information

Explosive propertiesNo information availableOxidizing propertiesNo information availableSoftening pointNo information available

Molecular weight 326.43

VOC content
Liquid Density
No information available
No information available
No information available

# 10. Stability and reactivity

**Reactivity** No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions 
None under normal processing.

**Conditions to avoid** None known based on information supplied.

**Incompatible materials**None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

## 11. Toxicological information

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Information on likely routes of exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

**Acute toxicity** 

**Numerical measures of toxicity** 

No information available

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

**Skin corrosion/irritation**No information available.

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

THE LADIO DOION III GIOGLOC	The table below indicates whether each agency has noted any ingredient as a carolinegen.			
Chemical name	ACGIH	IARC	NTP	OSHA
2,3,3´,4,5´-Pentachlorobi	-	Group 1	Reasonably Anticipated	X
phenyl				
70362-41-3				

Legend

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

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NTP (National Toxicology Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

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

X - Present

Reproductive toxicity No information available.

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

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

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

# 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

**Component Information** 

Chemical name	Partition coefficient
2,3,3',4,5'-Pentachlorobiphenyl	6.72
70362-41-3	

Other adverse effects No information available.

# 13. Disposal considerations

### **Disposal methods**

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Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. Transport information

DOT

UN number or ID number UN3432

Extended proper shipping name Polychlorinated biphenyls, solid

Transport hazard class(es) 9
Packing group ||

Reportable Quantity (RQ) (2,3,3',4,5'-Pentachlorobiphenyl: RQ (kg)= 0.45) 2,3,3',4,5'-Pentachlorobiphenyl: RQ (lb)=

1.00 2,3,3',4,5'-Pentachlorobiphenyl: RQ (kg)= 0.45

Reportable quantity (kg)

(calculated)

Reportable quantity (lbs)

2,3,3´,4,5´-Pentachlorobiphenyl: RQ (lb)= 1.00

(calculated)

Special Provisions 9, 81, 140, IB8, IP2, IP4, T3, TP33

**DOT Marine Pollutant** PP

**Marine pollutant** 2,3,3´,4,5´-Pentachlorobiphenyl

**Description** UN3432, Polychlorinated biphenyls, solid, 9, II, Marine pollutant

(2,3,3',4,5'-Pentachlorobiphenyl)

**Emergency Response Guide** 

Number

171

TDG

UN number or ID number UN3432

**UN proper shipping name** Polychlorinated biphenyls, solid

Transport hazard class(es) 9
Packing group II
Marine pollutant P

**Description** UN3432, Polychlorinated biphenyls, solid, 9, II

MEX

UN number or ID number UN3432

UN proper shipping name Polychlorinated biphenyls, solid

Transport hazard class(es) 9
Packing group ||

**Description** UN3432, Polychlorinated biphenyls, solid, 9, II

Special Provisions 305

IATA

UN number or ID number UN3432

**UN proper shipping name** Polychlorinated biphenyls, solid

Transport hazard class(es) 9

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Packing group

**Description** UN3432, Polychlorinated biphenyls, solid, 9, II

**Special Provisions** A11 **ERG Code** 9L

<u>IMDG</u> Not regulated

UN number or ID number UN3432

UN proper shipping name Polychlorinated biphenyls, solid

Transport hazard class(es) 9
Packing group ||

EmS-No. F-A, S-A Special Provisions 305, 958

Marine pollutant P

**Marine Pollutant** 2,3,3´,4,5´-Pentachlorobiphenyl

**Description** UN3432, Polychlorinated biphenyls, solid (2,3,3',4,5'-Pentachlorobiphenyl), 9, II, Marine

pollutant

# 15. Regulatory information

### International Inventories

TSCA Complies.

Chemical name	CAS No.	US TSCA Inventory listing	US TSCA inactive/active designation
2,3,3´,4,5´-Pentachlorobiphenyl	70362-41-3	Present	Active

This product contains a TSCA Section 6 restricted substance(s). Please see listed references to understand requirements and obligations under TSCA. Not all products containing restricted substances will necessarily be restricted.

Chemical name	CAS No.	References
2,3,3´,4,5´-Pentachlorobiphenyl	70362-41-3	See 40 CFR Part 761

DSL/NDSL

EINECS/ELINCS

Contact supplier for inventory compliance status.

Legend:

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TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **US Federal Regulations**

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
2,3,3´,4,5´-Pentachlorobiphenyl - 70362-41-3	0.1

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

## **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous
	Quantities			Substances
2,3,3´,4,5´-Pentachlorobi phenyl 70362-41-3	1 lb	X	-	X

# **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
2,3,3´,4,5´-Pentachlorobiphenyl 70362-41-3	1 lb	-	RQ 1 lb final RQ RQ 0.454 kg final RQ

### **US State Regulations**

### **California Proposition 65**

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65
2,3,3´,4,5´-Pentachlorobiphenyl - 70362-41-3	Carcinogen

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Developmental

#### U.S. State Right-to-Know Regulations

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Chemical name	New Jersey	Massachusetts	Pennsylvania
2,3,3´,4,5´-Pentachlorobiphenyl	X	X	X
70362-41-3			

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. Other information

NFPAHealth hazards0Flammability0Instability0Special hazards-HMISHealth hazards1\*Flammability0Physical hazards0Personal protectionX

Chronic Hazard Star Legend \*= Chronic Health Hazard

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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**Revision Note**No information available.

**Disclaimer** 

The information in this Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, we cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. We warrant that the chemical meets the specifications set forth on the label. We (LGC/VHG/ARMI) disclaim any other warranties, expressed or implied with regard to the product supplied hereunder, its merchantability or its fitness for a particular purpose. The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. Read all precautionary information.

**End of Safety Data Sheet** 

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