



# SAFETY DATA SHEET

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

Revision date 31-May-2022

Revision Number 1

## 1. Identification

### Product identifier

**Product Name** Custom-PCB No. 138

### Other means of identification

**Product Code(s)** DRE-C20013800-1G

**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 : lgcstandards.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

### Classification



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Classified according to OSHA.

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

## Hazards not otherwise classified (HNOC)

Not applicable

## Label elements

### Warning

### Hazard statements

Classified according to OSHA.

Suspected of causing 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

No information available.

## 3. Composition/information on ingredients



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## Substance

Formula C<sub>12</sub> H<sub>4</sub> Cl<sub>6</sub>

Chemical name	CAS No	Weight-%	Trade secret
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)	35065-28-2	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

Note to physicians Treat symptomatically.

## 5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the 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.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.



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## 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

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138) 35065-28-2	-	-	TWA: 0.001 mg/m <sup>3</sup>

### Biological occupational exposure limits

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



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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. Wear protective Viton™ gloves.

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

**Respiratory protection**                      No protective equipment is needed under normal use conditions. If exposure limits are 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**                                      Solid  
**Color**    off-white  
**Odor**    No information available  
**Odor threshold**                                      No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	75 - 80 °C / 167 - 176 °F	None known
Initial boiling point and boiling range	No 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 limits	No data available	
Lower flammability or explosive	No data available	



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<b>limits</b>		
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	7.44	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

## Other information

Explosive properties	No information available
Oxidizing properties	No information available
Softening point	No information available
Molecular weight	360.88
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	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

### 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.



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## 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. Suspected of causing cancer.

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

Chemical name	ACGIH	IARC	NTP	OSHA
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138) 35065-28-2	-	-	Reasonably Anticipated	X

### **Legend**

#### **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.



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**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
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138) 35065-28-2	7.44

**Other adverse effects** No information available.

## 13. Disposal considerations

### Disposal methods

**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** II

**Reportable Quantity (RQ)** (2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138): RQ (kg)= 0.454)  
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138): RQ (lb)= 1

**Reportable quantity kg** 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138): RQ (kg)= 0





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(calculated)	
Reportable quantity lbs.	2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138): RQ (lb)= 1
(calculated)	
Special Provisions	9, 81, 140, IB8, IP2, IP4, T3, TP33
DOT Marine Pollutant	PP
Marine pollutant	2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)
Description	UN3432, Polychlorinated biphenyls, solid, 9, II, Marine pollutant (2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138))
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	NP
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	II
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
Packing group	II
Description	UN3432, Polychlorinated biphenyls, solid, 9, II
Special Provisions	A11
ERG Code	9L

## IMDG

UN number or ID number	UN3432
UN proper shipping name	Polychlorinated biphenyls, solid
Transport hazard class(es)	9
Packing group	II
EmS-No	F-A, S-A
Special Provisions	305, 958
Marine pollutant	P
Marine Pollutant	2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)
Description	UN3432, Polychlorinated biphenyls, solid (2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)), 9, II, Marine pollutant

## 15. Regulatory information



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## International Inventories

### **TSCA**

Contact supplier for inventory compliance status.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)	35065-28-2	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
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)	35065-28-2	See 40 CFR Part 761

### **DSL/NDSL**

Contact supplier for inventory compliance status.

### **EINECS/ELINCS**

Contact supplier for inventory compliance status.

### **ENCS**

Contact supplier for inventory compliance status.

### **IECSC**

Contact supplier for inventory compliance status.

### **KECL**

Contact supplier for inventory compliance status.

### **PICCS**

Contact supplier for inventory compliance status.

### **AICS**

Contact supplier for inventory compliance status.

### **Legend:**

**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 %
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138) - 35065-28-2	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.



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## 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 Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138) 35065-28-2	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)
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138) 35065-28-2	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
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138) - 35065-28-2	Carcinogen Developmental

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138) 35065-28-2	X	X	X

## U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. Other information

### NFPA

Health hazards 0

Flammability 0

Instability 0

Special hazards -

### HMIS

Health hazards 1\*

Flammability 0

Physical hazards 0

Personal protection X

Chronic Hazard Star Legend

\* = Chronic Health Hazard



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## **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) (AELG(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**