DCL-5454 PHTHALO BLUE, PB.15:4

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)
Issue date: 6/26/2018 Revision date: 3/20/2026 Supersedes: 1/15/2026 Version: 1.6

SECTION 1 Identification

1.1. Product identifier

Product form	:	Substance
Trade name	:	DCL-5454 PHTHALO BLUE, PB.15:4
CAS-No.	:	147-14-8
Product code	:	200552
Formula	:	C32H16CuN8

1.2. Other means of identification

Synonyms	:	Pigment Blue 15:4
Other means of identification	:	5454 PHTHALO BLUE 15:4
EC-No.	:	205-685-1

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture	:	Pigment,Coloring agents

1.4. Supplier's details

Supplier
DCL Corporation (Pigments Services Inc)
1506 Bushy Park Road
Goose Creek, South Carolina
USA, 29445
T +1 416 791-4200
SDS@pigments.com - pigments.com

1.5. Emergency phone number

Emergency number	:	+1 800 424-9300; +1-703-527-3887 (CHEMTREC, CCN12891) 24 hours, 7 days a week

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. Label elements

GHS US labeling

No labeling applicable

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

Other hazards which do not result in classification	:	Unknown.

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Name : DCL-5454 PHTHALO BLUE, PB.15_4
CAS-No. : 147-14-8

Name	Product identifier	%	GHS US classification
Pigment Blue 15:4	CAS-No.: 147-14-8	100	Not classified

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash skin with plenty of water.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center/doctor/physician if you feel unwell.

Personal protection for first-aid responders. : First aid workers will be equipped with suitable personal protective equipment.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

Symptoms/effects after skin contact : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Symptoms/effects after eye contact : None under normal conditions. Dust from this product may cause eye irritation.

Symptoms/effects after ingestion : None under normal conditions.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

Unsuitable extinguishing media : Carbon dioxide (CO2).

5.2. Specific hazards arising from the chemical

Fire hazard : No fire hazard.

Explosion hazard : No direct explosion hazard. Minimize generation of dust which may be combustible.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage. Stop leak if safe to do so.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene. Notify fire brigade and environmental authorities.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Wear recommended personal protective equipment. Self-contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

Environmental precautions : Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment : Stop leak, if possible without risk.

Methods for cleaning up : Take up mechanically (preferable by vacuum cleaning or gentle sweeping).

Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 13.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Handle and open container with care. Keep away from sources of ignition - No smoking. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Avoid dust formation. Keep only in original container. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Additional hazards when processed : Local exhaust and general ventilation must be adequate to meet exposure standards.

7.2. Conditions for safe storage, including incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Keep cool. Protect from sunlight.

Specific end uses : Restricted to professional users.

Packaging materials : Always store product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

DCL-5454 PHTHALO BLUE, PB.15:4 (147-14-8)	
USA - OSHA - Occupational Exposure Limits	
Remark (OSHA)	Nuisance Dust

8.2. Appropriate engineering controls

Appropriate engineering controls : Measure concentrations regularly, and at the time of any change occurring in conditions likely to have consequences on workers exposure. Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection:

Type	Material	Permeation	Thickness (mm)	Penetration
Protective gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.35mm	
Wear suitable gloves resistant to chemical penetration				

Eye protection:

Chemical goggles or safety glasses

Type	Field of application	Characteristics
Safety glasses	Dust	With side shields

Skin and body protection:

Wear suitable protective clothing

Type
Plastic apron or overall

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition
Dust mask	Type P3, Particle filter	Dust protection

Personal protective equipment symbol(s):

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Solid
Appearance	:	Powder.
Color	:	Blue
Odor	:	Odourless
Odor threshold	:	Not applicable
		Not applicable
pH	:	5 – 7
Melting point	:	Not applicable
Freezing point	:	Not applicable
Boiling point	:	Not applicable
Flash point	:	Not applicable
Relative evaporation rate (butyl acetate=1)	:	Not applicable
Relative evaporation rate (ether=1)	:	Not applicable
Flammability (solid, gas)	:	Not applicable
		Not flammable.
Vapor pressure	:	Not applicable
Vapor pressure at 50°C	:	Not applicable
Relative vapor density at 20°C	:	Not applicable
Relative density	:	No data available
Relative gas density	:	Not applicable
Solubility	:	Insoluble.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	Not applicable
Explosion limits	:	Not applicable
		Not explosive
Explosive properties	:	Not explosive.
Oxidizing properties	:	Not applicable.
Particle characteristics	:	No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

Additional information	:	See section 3 for more information about nano properties.

SECTION 10 Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

DCL-5454 PHTHALO BLUE, PB.15:4 (147-14-8)	
LD50 oral rat	> 5000 mg/kg body weight
LD50 dermal rat	No data available
LC50 Inhalation - Rat	No data available

Pigment Blue 15:4 (147-14-8)	
LD50 oral rat	> 5000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Read-across, Oral, 14 day(s))
LD50 dermal rat	> 5000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male, Experimental value, Dermal, 14 day(s))

Skin corrosion/irritation : Not classified.
pH: 5 – 7

Serious eye damage/irritation : Not classified
pH: 5 – 7

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

Pigment Blue 15:4 (147-14-8)	
NOAEL (oral,rat,90 days)	1000 mg/kg body weight Animal: rat, Guideline: other:

Aspiration hazard : Not applicable

DCL-5454 PHTHALO BLUE, PB.15:4 (147-14-8)	
Viscosity, kinematic	Not applicable

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact : None under normal conditions. Dust from this product may cause eye irritation.
Symptoms/effects after ingestion : None under normal conditions.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : No data available.

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Not classified

Pigment Blue 15:4 (147-14-8)	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	> 500 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 - Other aquatic organisms [1]	> 500 mg/l Test organisms (species): other:
LC50 - Fish [2]	355.6 mg/l Test organisms (species): other:
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
LOEC (chronic)	> 1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≥ 1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

DCL-5454 PHTHALO BLUE, PB.15:4 (147-14-8)	
Persistence and degradability	Not rapidly degradable

Pigment Blue 15:4 (147-14-8)	
Persistence and degradability	Non degradable in the soil, Not readily biodegradable in water.

12.3. Bioaccumulative potential

Pigment Blue 15:4 (147-14-8)	
BCF - Fish [1]	< 11 (Cyprinus carpio, Test duration: 6 weeks)
Partition coefficient n-octanol/water (Log Pow)	6.6
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

Pigment Blue 15:4 (147-14-8)	
Ecology - soil	No (test)data on mobility of the substance available.

12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Regional waste regulation	:	Disposal must be done according to official regulations.
Waste treatment methods	:	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	:	Disposal must be done according to official regulations.
Additional information	:	Do not re-use empty containers.

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

UN-No. (DOT)	:	Not applicable
UN-No. (TDG)	:	Not applicable
UN-No. (IMDG)	:	Not applicable
UN-No. (IATA)	:	Not applicable

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT)	:	Not applicable
Proper Shipping Name (TDG)	:	Not applicable
Proper Shipping Name (IMDG)	:	Not applicable
Proper Shipping Name (IATA)	:	Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

TDG

Transport hazard class(es) (TDG) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT)	:	Not applicable
Packing group (TDG)	:	Not applicable
Packing group (IMDG)	:	Not applicable
Packing group (IATA)	:	Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

Not applicable

TDG

Not applicable

IMDG

Not applicable

IATA

Not applicable

SECTION 15 Regulatory information

15.1. Federal regulations

DCL-5454 PHTHALO BLUE, PB.15:4 (147-14-8)	
SARA Section 311/312 Hazard Classes	Non hazardous.

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

DCL-5454 PHTHALO BLUE, PB.15:4 (147-14-8)
Listed on the Canadian DSL (Domestic Substances List)

Pigment Blue 15:4 (147-14-8)
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EU-Regulations

DCL-5454 PHTHALO BLUE, PB.15:4 (147-14-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Pigment Blue 15:4 (147-14-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

DCL-5454 PHTHALO BLUE, PB.15:4 (147-14-8)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on the TCSI (Taiwan Chemical Substance Inventory)

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15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

Revision date : 3/20/2026

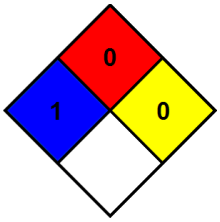
Issue date : 6/26/2018

Training advice : Users of breathing apparatus must be trained.

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:		
Section	**Changed item**	**Comments**
2	Signal word (GHS US)	**Removed**
2	Hazard statements (GHS US)	**Removed**
2.1	GHS-US classification	**Modified**

Safety Data Sheet (SDS), USA

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.

DCL pigment, pigment preparations and special dyes are technical grade products. Unless otherwise stated or agreed DCL products are recommended only for industrial use in applications involving coloration of inks, plastics and coatings. Other intended uses including their use in consumer products governed by specific legislation or standards should be referred to the manufacturer. The use of this product is not authorized for the direct coloration of food, the coloration of articles that come into contact with internal organs or body fluids, tattoo inks, nor for cosmetic use. The customer must perform its own tests to determine the suitability of the supplied product for the intended purpose. It is also the customer's responsibility to ensure that its intended uses shall be fully in compliance with all applicable laws and regulations in each relevant country or region. The data contained in the SDS apply only to DCL products sold under the stated trade names.