



SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2022

Date Updated: November 20, 2022

SECTION 1. ----- PRODUCT AND COMPANY IDENTIFICATION-----

Product Name Congo Red
 Product Code(s) CB0324
 Recommended Use For Laboratory Research Use Only
 Not for Human or Animal Drug Use

Supplier Bio Basic Inc.
 Address 20 Konrad Crescent, Markham, Ontario,
 Canada, L3R 8T4

Telephone (905) 474 4493
 Fax (905) 474 5794
 For Chemical Emergency Phone# (416) 995 9730

Synonyms: Direct Red 28
 Congo Red 4B
 Cosmos Red
 Cotton Red B
 Direct Red R
 Direct Red Y
 Cotton Red C

SECTION 2. ----- HAZARDS IDENTIFICATION -----

GHS - Classification

Classification Carcinogen 1B Toxic to Reproduction 2 Skin Irritant 2 Eye Irritant 2 Acute Toxicity Oral 4 Respiratory Sensitizer 1 Skin Sensitizer 1

Signal Word Danger



Hazard Statements H350 - May cause cancer
 H361 - Suspected of damaging fertility or the unborn allergic skin reaction

Precautionary Statements

P201+202 – Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

P280 – Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 – If exposed, get medical advice or attention.

P405: Store it locked.

P501: Disposal should be done at designated place / to an approved waste disposal plant.

SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
C.I. Direct red 28	EEC No. 209-358-4	Not available	573-58-0	<= 100 %	Carc.Cat.2;R45 Repr.Cat.3;R63

SECTION 4. ----- FIRST-AID MEASURES -----

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes
Inhalation	Move to fresh air. If breathing becomes difficult, give oxygen
Ingestion	Clean mouth with water and afterwards drink plenty of water
Notes to Physician	Treat symptomatically

SECTION 5. ----- FIRE FIGHTING MEASURES -----

Flammable Properties	Flammable. Combustible material
Flash Point	Not determined
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam
Hazardous Combustion Products	Carbon oxides, Sulfur oxides, Nitrogen oxides (NOx).
Explosion Data	
Sensitivity to Mechanical Impact	Not sensitive
Sensitivity to Static Discharge	Not sensitive
Protective Equipment and Precautions for 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 -----

Personal Precautions	Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation
Methods for Containment	Prevent further leakage or spillage if safe to do so
Methods for Cleaning Up	Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

SECTION 7. ----- HANDLING AND STORAGE -----

Handling Handle in accordance with good industrial hygiene and safety practice

Storage Keep containers tightly closed in a dry, cool and well-ventilated place

Incompatible Products Strong oxidizing agents.

SECTION 8. - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - -

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
C.I. Direct red 28 573-58-0			

Engineering Measures Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles.

Skin and Body Protection Wear protective gloves (Nitrile rubber) /clothing

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved Respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

Appearance red brown

Odor odorless

Odor Threshold No information available

Decomposition Temperature °C No information available

Freezing Point No information available

Initial Boiling Point No information available

Physical State Crystalline Powder

pH ca.6.7 at 10 g/l at 20 °C (68 °F)

Flash Point Not determined

Autoignition Temperature No data available

Boiling Point/Range No data available

Melting Point/Range >360 °C

Flammability Limits in Air Upper No data available **Lower** No data available

Explosive Properties No information available

Oxidizing Properties No information available

Evaporation Rate No data available

MMHG @ 37.8 C No data available

Vapor Density No data available

Vapor Pressure < 0.01 hPa

Specific Gravity No data available

Water Solubility 25 g/l at 20 °C (68 °F)

Partition Coefficient (n-octanol/water) No data available

Viscosity No information available

SECTION 9. 2 ----- OTHER SAFETY INFORMATION -----

Solubility in other solvents: Ether-practically insoluble

SECTION 10. -----STABILITY AND REACTIVITY -----

Stability Stable under recommended storage conditions

Incompatible Products Strong oxidizing agents.

Conditions to Avoid None known based on information supplied

Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides.

Hazardous Polymerization Hazardous polymerization does not occur

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----**Product Information** Toxic by inhalation and if swallowed. Sensitizer. Causes skin, eye and respiratory tract irritation.**Acute Toxicity -**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
C.I. Direct red 28	15200 mg/kg (Rat)		

Chronic Toxicity**Chronic Toxicity** Suspected carcinogen. Suspected teratogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
C.I. Direct red 28		Group 2A	Known	X

Target Organ Effects None known.**SECTION 12. ----- ECOLOGICAL INFORMATION -----****Toxicity:** Do not empty into drains. Toxicity to daphnia and other aquatic invertebrates**Persistence & degradability** : not readily biodegradable.**Mobility in Soil:** it is water soluble, will likely be mobile in environment (highly mobile in soils) due to its water solubility.**SECTION 13. ----- DISPOSAL CONSIDERATIONS -----****Waste Disposal Method** Dispose of material in accordance with all federal, state, and local regulations**Contaminated Packaging** Dispose of in accordance with all federal, state and local regulations**SECTION 14. ----- TRANSPORT INFORMATION -----****IATA** Not Dangerous goods

DOT

Not regulated

SECTION 15. ----- REGULATORY INFORMATION -----

REACH Title VII Restrictions No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
C.I. Direct red 28	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
C.I. Direct red 28573-58-0 (95-100)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
ENCS	Does not Comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

U.S. 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

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

CERCLA

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Component	CAS-No	California Prop. 65
C.I. Direct red 28	573-58-0	Carcinogen

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
C.I. Direct red 28		X			

International Regulations

Mexico - Grade

No information available.

Canada

WHMIS Hazard Class

D2A Very toxic materials

D2B Toxic materials



SECTION 16. ----- OTHER INFORMATION-----

Further information: no limited for paper copy, just for internal uses.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS