

Last revised date: 09/30/2021

Becton, Dickinson and Company BD, Franklin Lakes, NJ 07417 USA www.bd.com

SAFETY DATA SHEET

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
362760	TUBE CPTCIT GC 13X100 4.0 MLBL BL/BLK	BD Vacutainer® CPT™ Cell Preparation Tube with Sodium Citrate

Other means of identification

SDS number: 088100181120
Recommended use and restriction on use

Recommended use: Scientific and industrial laboratory use. For In Vitro Diagnostic Use.

Restrictions on use: For External Use Only

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: BD - Canada

Address: 2100 Derry Road West

L5N 0B3 Mississauga, Ontario Canada

Telephone: 866 979 9408

Fax:

Contact Person: Environment, Health & Safety

E-mail: CUSTOMER_SERVICE_CANADA@bd.com

Emergency telephone number: CHEMTREC +001-703-527-3887 (International)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Respiratory sensitizer Category 1 Skin sensitizer Category 1

Label Elements

Hazard Symbol:



Signal Word: Danger

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Hazard Statement: H334: May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

H317: May cause an allergic skin reaction.

Precautionary Statements

Prevention: P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P272: Contaminated work clothing should not be allowed out of the

workplace.

P280: Wear protective gloves.

P284: [In case of inadequate ventilation] wear respiratory protection.

Response: P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P321: Specific treatment (see supplemental first aid instructions on this

label).

P362+P364: Take off contaminated clothing and wash it before reuse. P304+P340: IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P342+P311: If experiencing respiratory symptoms: Call a POISON

CENTER or doctor/ physician.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance

with local, regional, national and international regulations.

Other hazards which do not result in GHS

classification

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*	
Sodium amidotrizoate	No data available.	737-31-5	1 - 5%	
Titanium oxide (TiO2)	No data available.	13463-67-7	0 - 0.1%	

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Get medical attention if symptoms occur.

Ingestion: Rinse mouth thoroughly. Never give liquid to an unconscious person. Get

medical attention if symptoms occur.

Inhalation: Move into fresh air and keep at rest. Treat symptomatically. Get medical

attention if symptoms occur.

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Skin Contact: Wash off promptly and flush contaminated skin with water. Promptly

remove clothing if soaked through and flush skin with water. Get medical attention if symptoms occur. Wash contaminated clothing before reuse.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: May cause an allergic skin reaction. May cause allergy or asthma

symptoms or breathing difficulties if inhaled.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

General Fire Hazards: Extinguish all ignition sources. Avoid sparks, flames, heat and smoking.

Ventilate.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing

media:

None known.

Specific hazards arising from

the chemical:

None known.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

No unusual fire or explosion hazards noted.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment.

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Methods and material for containment and cleaning

Sweep or scoop up and remove. Prevent runoff from entering drains,

sewers, or streams.

Environmental Precautions:

Do not release into the environment.

7. Handling and storage

Precautions for safe handling: Wear appropriate personal protective equipment. When using do not eat,

drink or smoke. Low hazard for recommended handling by trained

personnel.

Conditions for safe storage,

including any incompatibilities:

Keep containers tightly closed. Keep the container in a safe place. Keep in

a cool, well-ventilated place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
Titanium oxide (TiO2)	TWA	10 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Titanium oxide (TiO2) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium oxide (TiO2) - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium oxide (TiO2)	TWA	10 mg/m 3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011)
Titanium oxide (TiO2)	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Titanium oxide (TiO2)	8 HR ACL	10 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)
	15 MIN ACL	20 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)

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Titanium oxide (TiO2) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Titanium oxide (TiO2)	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as amended (12 2010)

Appropriate Engineering

Controls

Observe good industrial hygiene practices. Low hazard for recommended

handling by trained personnel.

Individual protection measures, such as personal protective equipment

General information: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

Eye/face protection: Avoid contact with eyes and prolonged skin contact. Protective gloves and

goggles must be used if there is a risk of direct contact or splash.

Skin Protection

Hand Protection: Use suitable protective gloves if risk of skin contact.

Skin protection: No data available.

Respiratory Protection: In case of inadequate ventilation use suitable respirator.

Hygiene measures: Avoid contact with skin. Do not eat, drink or smoke when using the product.

Observe good industrial hygiene practices.

9. Physical and chemical properties

Appearance

Physical state: Solid Form: Gel

Color: Pale yellow Odor: Characteristic **Odor threshold:** No data available. No data available. Melting point/freezing point: No data available. Initial boiling point and boiling range: No data available. **Flash Point:** No data available. **Evaporation rate:** No data available. Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available. Flammability limit - lower (%): No data available.

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Explosive limit - upper:

Explosive limit - lower:

Vapor pressure:

Vapor density:

No data available.

Solubility(ies)

Solubility in water:
Solubility (other):
No data available.
Viscosity:
No data available.
No data available.

10. Stability and reactivity

Reactivity: Stable under normal temperature conditions and recommended use.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

Material is stable under normal conditions.

Conditions to avoid: None under normal conditions.

Incompatible Materials: None under normal conditions.

Hazardous Decomposition

Products:

Material is stable under normal conditions.

11. Toxicological information

Information on likely routes of exposure

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

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No data available. Eye contact:

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: No data available.

Specified substance(s):

Titanium oxide (TiO2) LD 50 (Mouse): > 5,000 mg/kg

LD 50 (Rat): > 5,000 mg/kg LD 50 (Rat): > 25,000 mg/kg LD 50 (Rat): > 11,000 mg/kg LD 50 (Rat): > 5,000 mg/kg

Dermal

Product: No data available.

Inhalation

Product: No data available.

Specified substance(s):

Titanium oxide (TiO2) LC 50 (Rat, 4 h): 5.09 mg/l

LC 50 (Rat, 4 h): > 6.82 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s):

Titanium oxide (TiO2) NOAEL (Rat(Female, Male), Inhalation): 5 mg/m3 Inhalation Experimental

result, Supporting study

LOAEL (Mouse(female), Inhalation): 47 mg/m3 Inhalation Experimental

result, Supporting study

LOAEL (Mouse(female), Inhalation): 10.8 mg/m3 Inhalation Experimental result, Supporting study

NOAEL (Hamster, Syrian(female), Inhalation): 9.9 mg/m3 Inhalation

Experimental result, Supporting study

NOAEL (Rat(female), Inhalation): 9.5 mg/m3 Inhalation Experimental result,

Supporting study

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Titanium oxide (TiO2) in vivo (Rabbit): Not irritant Experimental result, Supporting study

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Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Titanium oxide (TiO2) in vivo (Rabbit, 1 hrs): Not irritating EU

in vivo (Rabbit, 24 hrs): Not irritating EU in vivo (Rabbit, 48 - 72 hrs): Minimal irritant EU in vivo (Rabbit, 24 hrs): Not irritating EU in vivo (Rabbit, 1 hrs): Minimal irritant EU in vivo (Rabbit, 48 - 72 hrs): Not irritating EU in vivo (Rabbit, 24 hrs): Minimal irritant EU in vivo (Rabbit, 24 - 72 hrs): Not irritating EU in vivo (Rabbit, 1 hrs): Not irritating EU in vivo (Rabbit, 1 hrs): Not irritating EU

in vivo (Rabbit, 24 - 72 hrs): Minimal irritant EU in vivo (Rabbit, 48 - 72 hrs): Not irritating EU

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Titanium oxide (TiO2) Skin sensitization:, in vivo/in vitro (Guinea pig): Non sensitising

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

ACGIH Carcinogens:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

Specific Target Organ Toxicity - Repeated Exposure

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Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Titanium oxide (TiO2) LC 50 (Cyprinodon variegatus, 96 h): > 10,000 mg/l Experimental result,

Weight of Evidence study

LC 50 (Oncorhynchus mykiss, 96 h): > 100 mg/l Experimental result, Weight

of Evidence study

EC 50 (Danio rerio, 96 h): > 100 mg/l Experimental result, Not specified NOAEL (Oncorhynchus mykiss, 96 h): >= 100 mg/l Experimental result,

Weight of Evidence study

LC 50 (Cyprinodon variegatus, 96 h): > 240 - < 370 mg/l Experimental result,

Not specified

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Titanium oxide (TiO2) EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication

EC 50 (Daphnia magna, 48 h): > 100 mg/l Experimental result, Not specified EC 50 (Daphnia magna, 48 h): > 1,000 mg/l Experimental result, Weight of

Evidence study

EC 50 (Daphnia magna, 48 h): > 100 mg/l Experimental result, Supporting

study

EC 50 (Daphnia magna, 48 h): > 1,000 mg/l Experimental result, Weight of

Evidence study

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Titanium oxide (TiO2) ED 0 (Phoxinus phoxinus, 30 d): >= 1,000 mg/l Experimental result,

Supporting study

LC 0 (Coregonus autumnalis migratorius G., 30 d): 3 mg/l Experimental

result, Supporting study

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Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Titanium oxide (TiO2) EC 50 (Nitokra spinipes, 13 d): 2.03 mg/l Experimental result, Supporting

study

EC 50 (Nitokra spinipes, 13 d): 107.4 mg/l Experimental result, Supporting

study

EC 100 (Daphnia magna, 30 d): 500 mg/l Experimental result, Supporting

study

LC 100 (Daphnia magna, 18 d): 1,000 mg/l Experimental result, Supporting

study

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Titanium oxide (TiO2) Cyprinus carpio, Bioconcentration Factor (BCF): 550 Aquatic sediment

Experimental result, Supporting study

Cyprinus carpio, Bioconcentration Factor (BCF): 74 Aquatic sediment

Experimental result, Supporting study

Cyprinus carpio, Bioconcentration Factor (BCF): 325 Aquatic sediment

Experimental result, Supporting study

Oncorhynchus mykiss, Bioconcentration Factor (BCF): 19 - 208 Aquatic

sediment Experimental result, Key study

Cyprinus carpio, Bioconcentration Factor (BCF): 9 Aquatic sediment

Experimental result, Supporting study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

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Sodium amidotrizoate No data available. Titanium oxide (TiO2) No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal instructions: Dispose of waste and residues in accordance with local authority

requirements.

Contaminated Packaging: No data available.

14. Transport information

DOTUN Number: Not regulated. UN Proper Shipping Name: Not regulated.

Transport Hazard Class(es)

Class: Not regulated.
Label(s): Not regulated.
Packing Group: Not regulated.
Marine Pollutant: Not regulated.
Limited quantity Not regulated.
Excepted quantity Not regulated.

Special precautions for user: Not regulated.

IMDG

UN Number: Not regulated. UN Proper Shipping Name: Not regulated.

Transport Hazard Class(es)

Class: Not regulated.
Subsidiary risk: Not regulated.
EmS No.: Not regulated.
Packing Group: Not regulated.

Environmental Hazards

Marine Pollutant: Not regulated.

Special precautions for user: Not regulated.

TDG

UN Number Not regulated.
Proper Shipping Name Not regulated.
Class Not regulated.
Packing Group Not regulated.
Label(s) Not regulated.
Subsidiary risk label Not regulated.

Special precautions for user: Not regulated.

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IATA

UN Number: Not regulated. Proper Shipping Name: Not regulated.

Transport Hazard Class(es):

Class: Not regulated. Subsidiary risk: Not regulated. Packing Group: Not regulated.

Environmental Hazards

Marine pollutant: Not regulated.

Special precautions for user: Not regulated.

15. Regulatory information

Canada Federal Regulations

List of Toxic Substances (CEPA, Schedule 1)

Not Regulated

Export Control List (CEPA 1999, Schedule 3)

Not Regulated

National Pollutant Release Inventory (NPRI)

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements

NPRI PT5 Not Regulated

Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

NPRI Not Regulated

Greenhouse Gases

Not Regulated

Controlled Drugs and Substances Act

CA CDSI Not Regulated
CA CDSII Not Regulated
CA CDSIII Not Regulated
CA CDSIV Not Regulated
CA CDSV Not Regulated

CA CDSVII Not Regulated
CA CDSVIII Not Regulated

Precursor Control Regulations

Not Regulated

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International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

16.Other information, including date of preparation or last revision

Issue Date: 09/30/2021

Version #: 1.0

Revision Information:

Further Information: No data available.

Disclaimer: Disclaimer:

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