



Version: 2.2
Last revised date:
09/30/2021

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

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
362761	TUBE CPTCIT GC 16X125 8.0 MLBL BL/BLK	BD Vacutainer® CPT™ Cell Preparation Tube with Sodium Citrate

Recommended restrictions

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

Restrictions on use: For External Use Only

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: BD, Integrated Diagnostic Solutions
Address: 1 Becton Drive
Franklin Lakes, NJ 07417
USA

Telephone: 1 800 631 0174
Fax: 1 201 847 4866
Contact Person: Technical Services
E-mail: productcomplaints@bd.com

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Health Hazards

Respiratory sensitizer	Category 1
Skin sensitizer	Category 1

Label Elements

Hazard Symbol:



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Signal Word: Danger

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/protective clothing/eye protection/face protection.
P284: [In case of inadequate ventilation] wear respiratory protection.

Response: P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P363: Wash contaminated clothing before reuse.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P321: Specific treatment (see supplemental first aid instructions on this label).
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



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Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
Sodium amidotrizoate	No data available.	737-31-5	3.9137%
Silane, dichlorodimethyl-, reaction products with silica	No data available.	68611-44-9	2.0158%
Titanium oxide (TiO ₂)	No data available.	13463-67-7	0.0082%

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

4. First-aid measures

Description of necessary first-aid measures

General information:	Get medical attention if symptoms occur.
Inhalation:	Move into fresh air and keep at rest. Treat symptomatically. Get medical attention if symptoms occur.
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.
Ingestion:	Rinse mouth thoroughly. Never give liquid to an unconscious person. Get medical attention if symptoms occur.
Personal Protection for First-aid Responders:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

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



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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.

Methods and material for containment and cleaning up: Sweep or scoop up and remove. Prevent runoff from entering drains, sewers, or streams.

Environmental Precautions: Do not release into the environment.



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7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Observe good industrial hygiene practices. Low hazard for recommended handling by trained personnel.

Safe handling advice: Wear appropriate personal protective equipment. When using do not eat, drink or smoke. Low hazard for recommended handling by trained personnel.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Keep containers tightly closed. Keep the container in a safe place. Keep in a cool, well-ventilated place.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Silane, dichlorodimethyl-, reaction products with silica	AN ESL	0.27 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	14 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	TWA	0.8 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Titanium oxide (TiO ₂) - Respirable fraction.	TWA	1 mg/m ³	US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values, as amended
Titanium oxide (TiO ₂) - Total dust.	TWA	10 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	10 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Titanium oxide (TiO ₂)	ST ESL	50 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended



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	AN ESL	5 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as amended
Titanium oxide (TiO ₂) - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Titanium oxide (TiO ₂)	IDLH	5,000 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

Observe good industrial hygiene practices. Low hazard for recommended handling by trained personnel.

Individual protection measures, such as personal protective equipment

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:

Material: Use suitable protective gloves if risk of skin contact.

Skin and Body 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

Information on basic physical and chemical properties

Appearance

Physical state:

Solid

Form:

Gel

Color:

Pale yellow

Odor:

Characteristic

Odor Threshold:

No data available.



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Melting Point:	Not applicable
Boiling Point:	No data available.
Flammability:	Not applicable
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	Not applicable
Explosive limit - lower:	Not applicable
Flash Point:	Not applicable
Self Ignition Temperature:	Not determined.
Decomposition Temperature:	Not applicable
pH:	Not applicable
Viscosity	
Dynamic viscosity:	Not determined.
Kinematic viscosity:	No data available.
Flow Time:	Not applicable
Solubility(ies)	
Solubility in Water:	Not applicable
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable
Vapor pressure:	Not applicable
Relative density:	Not applicable
Density:	Not applicable
Bulk density:	Not applicable
Vapor density (air=1):	Not applicable
Particle characteristics	
Particle Size:	Not applicable
Particle Size Distribution:	Not applicable
Specific surface area:	Not applicable
Surface charge/Zeta potential:	Not applicable
Assessment:	Not applicable
Shape:	Not applicable
Crystallinity:	Not applicable
Surface treatment:	Not applicable

10. Stability and reactivity

Reactivity:	Material is stable under normal conditions.
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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

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: No data available.

Components:
Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica No data available.

Titanium dioxide LD 50 (Mouse): > 5,000 mg/kg
Experimental result, Key study LD 50 (Rat): > 5,000 mg/kg
Experimental result, Supporting study LD 50 (Rat): > 25,000 mg/kg
Experimental result, Supporting study LD 50 (Rat): > 11,000 mg/kg
Experimental result, Supporting study LD 50 (Rat): > 5,000 mg/kg
Experimental result, Key study



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Dermal

Product: No data available.

Components:
Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica No data available.

Titanium dioxide No data available.

Inhalation

Product: No data available.

Components:
Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica No data available.

Titanium dioxide LC 50 (Rat): 5.09 mg/l
Inhalation, Experimental result, Key study LC 50 (Rat): > 6.82 mg/l
Inhalation, Experimental result, Key study

Repeated dose toxicity

Product: No data available.

Components:
Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica No data available.

Titanium dioxide 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



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

Skin Corrosion/Irritation

Product: No data available.

Components:
Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica No data available.

Titanium dioxide in vivo (Rabbit): Not irritant

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:
Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica No data available.

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

Respiratory or Skin Sensitization

Product: No data available.

Components:
Sodium amidotrizoate No data available.



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Silane,
dichlorodimethyl-,
reaction products with
silica

No data available.

Titanium dioxide

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

Carcinogenicity

Product:

No data available.

Components:

Sodium amidotrizoate

No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica

No data available.

Titanium dioxide

No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

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

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product:

No data available.

Components:

Sodium amidotrizoate

No data available.

Silane,
dichlorodimethyl-,
reaction products
with silica

No data available.

Titanium dioxide

No data available.



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In vivo

Product: No data available.

Components:

Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products
with silica No data available.

Titanium dioxide No data available.

Reproductive toxicity

Product: No data available.

Components:

Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica No data available.

Titanium dioxide No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica No data available.

Titanium dioxide No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Sodium amidotrizoate No data available.



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Silane,
dichlorodimethyl-,
reaction products with
silica

No data available.

Titanium dioxide

No data available.

Aspiration Hazard

Product:

No data available.

Components:

Sodium amidotrizoate

No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica

No data available.

Titanium dioxide

No data available.

Information on health hazards

Other hazards

Product:

No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:

No data available.

Components:

Sodium amidotrizoate

No data available.

Silane, dichlorodimethyl-,
reaction products with
silica

No data available.

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,



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Not specified

Aquatic Invertebrates

Product: No data available.

Components:

Sodium amidotrizoate No data available.

Silane, dichlorodimethyl-, reaction products with silica No data available.

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

Toxicity to Aquatic Plants

Product: No data available.

Components:

Sodium amidotrizoate No data available.

Silane, dichlorodimethyl-, reaction products with silica No data available.

Titanium oxide (TiO₂) No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Sodium amidotrizoate No data available.

Silane, dichlorodimethyl-, reaction products with silica No data available.

Titanium oxide (TiO₂) No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Sodium amidotrizoate No data available.

Silane, dichlorodimethyl-, reaction products with silica No data available.

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.

Components:

Sodium amidotrizoate No data available.

Silane, dichlorodimethyl-, reaction products with silica No data available.

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.

Components:

Sodium amidotrizoate No data available.

Silane, dichlorodimethyl-, reaction products with silica No data available.

Titanium oxide (TiO₂) No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Sodium amidotrizoate No data available.

Silane, dichlorodimethyl-, reaction products with silica No data available.

Titanium oxide (TiO₂) No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

Sodium amidotrizoate No data available.

Silane, dichlorodimethyl-, reaction products with silica No data available.

Titanium oxide (TiO₂) No data available.

BOD/COD Ratio

Product: No data available.

Components:



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Sodium amidotrizoate	No data available.
Silane, dichlorodimethyl-, reaction products with silica	No data available.
Titanium oxide (TiO ₂)	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

Sodium amidotrizoate	No data available.
Silane, dichlorodimethyl-, reaction products with silica	No data available.
Titanium oxide (TiO ₂)	

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 K_{ow})

Product: No data available.

Components:

Sodium amidotrizoate	No data available.
Silane, dichlorodimethyl-, reaction products with silica	No data available.
Titanium oxide (TiO ₂)	No data available.

Mobility in soil:

Product No data available.

Components:

Sodium amidotrizoate	No data available.
Silane, dichlorodimethyl-, reaction products with silica	No data available.
Titanium oxide (TiO ₂)	No data available.

Results of PBT and vPvB assessment:

Product No data available.

Components:

Sodium amidotrizoate	No data available.
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Silane, dichlorodimethyl-, reaction products with silica	No data available.
Titanium oxide (TiO ₂)	No data available.

Other adverse effects:

Other hazards

Product: No data available.

Components:

Sodium amidotrizoate	No data available.
Silane, dichlorodimethyl-, reaction products with silica	No data available.
Titanium oxide (TiO ₂)	No data available.

13. Disposal considerations

Disposal methods: 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.



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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.

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

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

Phosphoric acid, sodium salt (1:2)



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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Respiratory or Skin Sensitization

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical Identity

Phosphoric acid, sodium salt (1:2)

US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including, Titanium oxide (TiO₂) which is [are] known to the State of California to cause cancer.

For more information go to www.P65Warnings.ca.gov.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Not applicable



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Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

16. Other information, including date of preparation or last revision
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Issue Date: 09/30/2021

Version #: 2.2

Further Information: No data available.

Disclaimer: Disclaimer:
The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.



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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

Recommended restrictions

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

Restrictions on use: For External Use Only

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: BD, Integrated Diagnostic Solutions
Address: 1 Becton Drive
Franklin Lakes, NJ 07417
USA

Telephone: 1 800 631 0174
Fax: 1 201 847 4866
Contact Person: Technical Services
E-mail: productcomplaints@bd.com

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Health Hazards

Respiratory sensitizer	Category 1
Skin sensitizer	Category 1

Label Elements

Hazard Symbol:



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Signal Word: Danger

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/protective clothing/eye protection/face protection.
P284: [In case of inadequate ventilation] wear respiratory protection.

Response: P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P363: Wash contaminated clothing before reuse.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P321: Specific treatment (see supplemental first aid instructions on this label).
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



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Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
Sodium amidotrizoate	No data available.	737-31-5	3.7007%
Silane, dichlorodimethyl-, reaction products with silica	No data available.	68611-44-9	2.2303%
Titanium oxide (TiO ₂)	No data available.	13463-67-7	0.009%

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

4. First-aid measures

Description of necessary first-aid measures

General information:	Get medical attention if symptoms occur.
Inhalation:	Move into fresh air and keep at rest. Treat symptomatically. Get medical attention if symptoms occur.
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.
Ingestion:	Rinse mouth thoroughly. Never give liquid to an unconscious person. Get medical attention if symptoms occur.
Personal Protection for First-aid Responders:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

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



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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.

Methods and material for containment and cleaning up: Sweep or scoop up and remove. Prevent runoff from entering drains, sewers, or streams.

Environmental Precautions: Do not release into the environment.



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7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Observe good industrial hygiene practices. Low hazard for recommended handling by trained personnel.

Safe handling advice: Wear appropriate personal protective equipment. When using do not eat, drink or smoke. Low hazard for recommended handling by trained personnel.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Keep containers tightly closed. Keep the container in a safe place. Keep in a cool, well-ventilated place.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Silane, dichlorodimethyl-, reaction products with silica	AN ESL	0.27 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	14 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	TWA	0.8 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Titanium oxide (TiO ₂) - Respirable fraction.	TWA	1 mg/m ³	US. ACGIH Notice of Intended Changes (NIC) to Threshold Limit Values, as amended
Titanium oxide (TiO ₂) - Total dust.	TWA	10 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	10 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Titanium oxide (TiO ₂)	ST ESL	50 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended



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	AN ESL	5 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as amended
Titanium oxide (TiO ₂) - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Titanium oxide (TiO ₂)	IDLH	5,000 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

Observe good industrial hygiene practices. Low hazard for recommended handling by trained personnel.

Individual protection measures, such as personal protective equipment

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:

Material: Use suitable protective gloves if risk of skin contact.

Skin and Body 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

Information on basic physical and chemical properties

Appearance

Physical state:

Solid

Form:

Gel

Color:

Pale yellow

Odor:

Characteristic

Odor Threshold:

No data available.



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Melting Point:	Not applicable
Boiling Point:	No data available.
Flammability:	Not applicable
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	Not applicable
Explosive limit - lower:	Not applicable
Flash Point:	Not applicable
Self Ignition Temperature:	Not determined.
Decomposition Temperature:	Not applicable
pH:	Not applicable
Viscosity	
Dynamic viscosity:	Not determined.
Kinematic viscosity:	No data available.
Flow Time:	Not applicable
Solubility(ies)	
Solubility in Water:	Not applicable
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable
Vapor pressure:	Not applicable
Relative density:	Not applicable
Density:	Not applicable
Bulk density:	Not applicable
Vapor density (air=1):	Not applicable
Particle characteristics	
Particle Size:	Not applicable
Particle Size Distribution:	Not applicable
Specific surface area:	Not applicable
Surface charge/Zeta potential:	Not applicable
Assessment:	Not applicable
Shape:	Not applicable
Crystallinity:	Not applicable
Surface treatment:	Not applicable

10. Stability and reactivity

Reactivity:	Material is stable under normal conditions.
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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

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: No data available.

Components:
Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica No data available.

Titanium dioxide LD 50 (Mouse): > 5,000 mg/kg
Experimental result, Key study LD 50 (Rat): > 5,000 mg/kg
Experimental result, Supporting study LD 50 (Rat): > 25,000 mg/kg
Experimental result, Supporting study LD 50 (Rat): > 11,000 mg/kg
Experimental result, Supporting study LD 50 (Rat): > 5,000 mg/kg
Experimental result, Key study



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Dermal

Product: No data available.

Components:
Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica No data available.

Titanium dioxide No data available.

Inhalation

Product: No data available.

Components:
Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica No data available.

Titanium dioxide LC 50 (Rat): 5.09 mg/l
Inhalation, Experimental result, Key study LC 50 (Rat): > 6.82 mg/l
Inhalation, Experimental result, Key study

Repeated dose toxicity

Product: No data available.

Components:
Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica No data available.

Titanium dioxide 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



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

Skin Corrosion/Irritation

Product: No data available.

Components:
Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica No data available.

Titanium dioxide in vivo (Rabbit): Not irritant

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:
Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica No data available.

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

Respiratory or Skin Sensitization

Product: No data available.

Components:
Sodium amidotrizoate No data available.



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Silane,
dichlorodimethyl-,
reaction products with
silica

No data available.

Titanium dioxide

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

Carcinogenicity

Product:

No data available.

Components:

Sodium amidotrizoate

No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica

No data available.

Titanium dioxide

No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

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

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product:

No data available.

Components:

Sodium amidotrizoate

No data available.

Silane,
dichlorodimethyl-,
reaction products
with silica

No data available.

Titanium dioxide

No data available.



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In vivo

Product: No data available.

Components:
Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products
with silica No data available.

Titanium dioxide No data available.

Reproductive toxicity

Product: No data available.

Components:
Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica No data available.

Titanium dioxide No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:
Sodium amidotrizoate No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica No data available.

Titanium dioxide No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:
Sodium amidotrizoate No data available.



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Silane,
dichlorodimethyl-,
reaction products with
silica

No data available.

Titanium dioxide

No data available.

Aspiration Hazard

Product:

No data available.

Components:

Sodium amidotrizoate

No data available.

Silane,
dichlorodimethyl-,
reaction products with
silica

No data available.

Titanium dioxide

No data available.

Information on health hazards

Other hazards

Product:

No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:

No data available.

Components:

Sodium amidotrizoate

No data available.

Silane, dichlorodimethyl-,
reaction products with
silica

No data available.

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,



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Not specified

Aquatic Invertebrates

Product: No data available.

Components:

Sodium amidotrizoate No data available.

Silane, dichlorodimethyl-, reaction products with silica No data available.

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

Toxicity to Aquatic Plants

Product: No data available.

Components:

Sodium amidotrizoate No data available.

Silane, dichlorodimethyl-, reaction products with silica No data available.

Titanium oxide (TiO₂) No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Sodium amidotrizoate No data available.

Silane, dichlorodimethyl-, reaction products with silica No data available.

Titanium oxide (TiO₂) No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Sodium amidotrizoate No data available.

Silane, dichlorodimethyl-, reaction products with silica No data available.

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.

Components:

Sodium amidotrizoate No data available.

Silane, dichlorodimethyl-, reaction products with silica No data available.

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.

Components:

Sodium amidotrizoate No data available.

Silane, dichlorodimethyl-, reaction products with silica No data available.

Titanium oxide (TiO₂) No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Sodium amidotrizoate No data available.

Silane, dichlorodimethyl-, reaction products with silica No data available.

Titanium oxide (TiO₂) No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

Sodium amidotrizoate No data available.

Silane, dichlorodimethyl-, reaction products with silica No data available.

Titanium oxide (TiO₂) No data available.

BOD/COD Ratio

Product: No data available.

Components:



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Sodium amidotrizoate	No data available.
Silane, dichlorodimethyl-, reaction products with silica	No data available.
Titanium oxide (TiO ₂)	No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

Sodium amidotrizoate	No data available.
Silane, dichlorodimethyl-, reaction products with silica	No data available.
Titanium oxide (TiO ₂)	

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 K_{ow})

Product: No data available.

Components:

Sodium amidotrizoate	No data available.
Silane, dichlorodimethyl-, reaction products with silica	No data available.
Titanium oxide (TiO ₂)	No data available.

Mobility in soil:

Product No data available.

Components:

Sodium amidotrizoate	No data available.
Silane, dichlorodimethyl-, reaction products with silica	No data available.
Titanium oxide (TiO ₂)	No data available.

Results of PBT and vPvB assessment:

Product No data available.

Components:

Sodium amidotrizoate	No data available.
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Silane, dichlorodimethyl-, reaction products with silica	No data available.
Titanium oxide (TiO ₂)	No data available.

Other adverse effects:

Other hazards

Product:	No data available.
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Components:

Sodium amidotrizoate	No data available.
Silane, dichlorodimethyl-, reaction products with silica	No data available.
Titanium oxide (TiO ₂)	No data available.

13. Disposal considerations

Disposal methods:	Dispose of waste and residues in accordance with local authority requirements.
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Contaminated Packaging:	No data available.
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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.



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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.

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

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

Phosphoric acid, sodium salt (1:2)



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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Respiratory or Skin Sensitization

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical Identity

Phosphoric acid, sodium salt (1:2)

US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including, Titanium oxide (TiO₂) which is [are] known to the State of California to cause cancer.

For more information go to www.P65Warnings.ca.gov.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Not applicable



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Last revised date:
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Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

16. Other information, including date of preparation or last revision
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Issue Date: 09/30/2021

Version #: 2.2

Further Information: No data available.

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