

505417JPDC GREEN

Version Number 1.2 Revision Date 09/19/2019

Page 1 of 21 Print Date 09/20/2019

SAFETY DATA SHEET

505417JPDC GREEN

Section 1. Identification

505417JPDC GREEN **GHS** product identifier

Chemical name Mixture **CAS** number Mixture Other means of identification CC00015918 **Product type** solid

Relevant identified uses of the substance or mixture and uses advised against

Industrial applications. Plastics. Product use

Supplier's details POLYONE CORPORATION

33587 Walker Road, Avon Lake, OH 44012

1 (440) 930-1000 or 1 (866) POLYONE

Emergency telephone number

(with hours of operation)

CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or

accident).

Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. Some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Classification of the substance or

mixture

COMBUSTIBLE DUSTS

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A

GHS label elements



505417JPDC GREEN

Version Number 1.2 Page 2 of 21 Revision Date 09/19/2019 Print Date 09/20/2019

Hazard pictograms



Signal word : Danger

Hazard statements: May form combustible dust concentrations in air.

Causes serious eye irritation. Causes skin irritation. May cause cancer.

Precautionary statements

General : Not applicable.

Prevention : Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Wash hands

thoroughly after handling.

Response: IF exposed or concerned: Get medical attention. IF ON SKIN: Wash

with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye

irritation persists: Get medical attention.

Storage : Store locked up.

Disposal: Dispose of contents and container in accordance with all local,

Keep container tightly closed.

regional, national and international regulations.

Supplemental label elements

Hazards not otherwise classified : None known.

Not available.

Section 3. Composition/information on ingredients

Substance/mixture: MixtureChemical name: MixtureOther means of identification: CC00015918

CAS number/other identifiers

Ingredient name	%	CAS number
Butanedioic acid, 2-sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt	10 - 25	577-11-7
(1:1)		



505417JPDC GREEN

 Version Number 1.2
 Page 3 of 21

 Revision Date 09/19/2019
 Print Date 09/20/2019

Cadmium	10 - 25	7440-43-9
Titanium oxide	10 - 25	13463-67-7
Silica	1 - 3	7631-86-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious



505417JPDC GREEN

Version Number 1.2 Page 4 of 21 Revision Date 09/19/2019 Print Date 09/20/2019

person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Exposure to airborne concentrations above statutory or recommended

exposure limits may cause irritation of the nose, throat and lungs.

Skin contact : Causes skin irritation.

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact : Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without

suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures



505417JPDC GREEN

Version Number 1.2 Page 5 of 21 Revision Date 09/19/2019 Print Date 09/20/2019

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media Use dry chemical powder.

Avoid high pressure media which could cause the formation of a

potentially explosible dust-air mixture.

Specific hazards arising from the chemical

May form explosible dust-air mixture if dispersed.

Hazardous thermal decomposition products Decomposition products may include the following materials:

sulfur oxides metal oxide/oxides

Special protective actions for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any

personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-

exposed containers cool.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and selfcontained breathing apparatus (SCBA) with a full face-piece operated

in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without For non-emergency personnel

> suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is

inadequate. Put on appropriate personal protective equipment.

If specialized clothing is required to deal with the spillage, take note For emergency responders

of any information in Section 8 on suitable and unsuitable materials.

See also the information in "For non-emergency personnel".

Environmental precautions Avoid dispersal of spilled material and runoff and contact with soil,

waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil

or air).

Methods and materials for containment and cleaning up

Small spill Move containers from spill area. Use spark-proof tools and explosion-

proof equipment. Avoid dust generation. Do not dry sweep. Vacuum



505417JPDC GREEN

Version Number 1.2 Revision Date 09/19/2019 Page 6 of 21 Print Date 09/20/2019

Large spill

dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in a well-ventilated place. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until



505417JPDC GREEN Version Number 1.2 Page 7 of 21 Revision Date 09/19/2019 Print Date 09/20/2019

ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Titanium oxide	OSHA PEL 1989 (1989-03-01) TWA 10 mg/m3 Form: Total dust OSHA PEL (1993-06-30) TWA 15 mg/m3 Form: Total dust ACGIH TLV (1996-05-18) TWA 10 mg/m3
Cadmium	ACGIH TLV (1994-09-01) TWA 0.01 mg/m3 (as Cd) Form: Inhalable fraction TWA 0.002 mg/m3 (as Cd) Form: Respirable fraction OSHA PEL 1989 (1989-03-01) TWA 0.1 mg/m3 (as Cd) Form: Fume CEIL 0.3 mg/m3 (as Cd) Form: Fume TWA 0.2 mg/m3 (as Cd) Form: Dust CEIL 0.6 mg/m3 (as Cd) Form: Dust OSHA PEL 1989 (1992-12-14) TWA 0.005 mg/m3 OSHA PEL (1993-06-30) TWA 0.005 mg/m3 (as Cd) OSHA PEL Z2 (1993-06-30) TWA 0.1 mg/m3 Form: Fume CEIL 0.3 mg/m3 Form: Fume TWA 0.2 mg/m3 Form: Dust CEIL 0.6 mg/m3 Form: Dust
Butanedioic acid, 2-sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (1:1)	None.
Silica	NIOSH REL (1994-06-01) TWA 6 mg/m3

SAFETY DATA SHEET



FOE 417 IDDC CDEEN		
Version Number 1.2 Revision Date 09/19/2019		Page 8 of 21 Print Date 09/20/2019
Appropriate engineering controls	:	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof
Environmental exposure controls	:	ventilation equipment. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. If operating conditions cause high dust concentrations to be produced, use dust goggles.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be



505417JPDC GREEN

Version Number 1.2 Page 9 of 21 Revision Date 09/19/2019 Print Date 09/20/2019

approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures

should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this

product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that

meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper

fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state : solid [Very fine powder.]

Color : GREEN
Odor : Not available.

Odor threshold : Not available.

Physical Physic

Melting point: Not available.Boiling point: Not available.Flash point: Not available.Burning time: Not available.Burning rate: Not available.Evaporation rate: Not available.Flammability (solid, gas): Not available.

Lower and upper explosive : Lower: Not available. (flammable) limits : Upper: Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.SolubilityNot available.Solubility in waterNot available.Partition coefficient: n-Not available.

octanol/water

Auto-ignition temperature: Not available.Decomposition temperature: Not available.SADT: Not available.

Viscosity : Dynamic: Not available.

Kinematic: Not available.

Aerosol product

Heat of combustion : Not available.



505417JPDC GREEN

 Version Number 1.2
 Page 10 of 21

 Revision Date 09/19/2019
 Print Date 09/20/2019

Ignition distance Enclosed space ignition - Time

equivalent

Enclosed space ignition -

Deflagration density

Flame height Flame duration Not available.
Not available.

Not available.

Not available.Not available.

Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or

its ingredients.

Chemical stability : Stable under recommended storage and handling conditions (see

Section 7).

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will

not occur.

Conditions to avoid : Avoid the creation of dust when handling and avoid all possible

sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers

and equipment before transferring material. Prevent dust

accumulation.

Incompatible materials : Reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition

products should not be produced.

Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure			
Remarks - Oral:	No applicable toxic	No applicable toxicity data					
Remarks - Inhalation:	No applicable toxic	city data					
Remarks - Dermal:	No applicable toxicity data						
Butanedioic acid, 2-sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (1:1)							
	LD50 Oral	Rat	1,900 mg/kg	-			
Remarks - Inhalation:	No applicable toxicity data						



505417JPDC GREEN

Version Number 1.2 Revision Date 09/19/2019 Page 11 of 21 Print Date 09/20/2019

	LD50 Dermal	Rabbit	10,000 mg/kg	-		
Cadmium						
	LD50 Oral	Rat	2,330 mg/kg	=		
Remarks - Inhalation:	No applicable toxic	city data				
Remarks - Dermal:	No applicable toxic	No applicable toxicity data				
Titanium oxide						
Remarks - Oral:	No applicable toxicity data					
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h		
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-		

Conclusion/Summary: Mixture. Not fully tested.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Silica	Eyes - Mild	Rabbit		24 hrs	-
	irritant				
Butanedioic acid, 2-sulfo-,	Eyes - Severe	Rabbit			-
1,4-bis(2-ethylhexyl) ester,	irritant				
sodium salt (1:1)					
	Skin -	Rabbit		24 hrs	-
	Moderate				
	irritant				
	Eyes - Mild	Rabbit			-
	irritant				
Titanium oxide	Skin - Mild	Human		72 hrs	-
	irritant				

Conclusion/Summary

Skin:Mixture.Not fully tested.Eyes:Mixture.Not fully tested.Respiratory:Mixture.Not fully tested.

Sensitization

Conclusion/Summary

Skin: Mixture.Not fully tested.Respiratory: Mixture.Not fully tested.

Mutagenicity

Conclusion/Summary: Mixture.Not fully tested.

Carcinogenicity

Conclusion/Summary : Mixture.Not fully tested.



505417JPDC GREEN

Version Number 1.2 Page 12 of 21 Revision Date 09/19/2019 Print Date 09/20/2019

Classification

Product/ingredient name	OSHA	IARC	NTP
Silica	-	3	-
Cadmium	+	1	Known to be a human carcinogen.
Titanium oxide	-	2B	-

Reproductive toxicity

Conclusion/Summary : Mixture.Not fully tested.

Teratogenicity

Conclusion/Summary : Mixture. Not fully tested.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of

exposure

Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Exposure to airborne concentrations above statutory or recommended

exposure limits may cause irritation of the nose, throat and lungs.

Skin contact : Causes skin irritation.

Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following: pain or irritation,

watering, redness

Inhalation : Adverse symptoms may include the following: respiratory tract

irritation, coughing

Skin contact: Adverse symptoms may include the following: irritation, redness

Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure



505417JPDC GREEN

Version Number 1.2 Revision Date 09/19/2019 Page 13 of 21 Print Date 09/20/2019

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Mixture.Not fully tested.

General : Repeated or prolonged inhalation of dust may lead to chronic

respiratory irritation.

Carcinogenicity : May cause cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	7,200.5 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Silica			
Remarks - Acute - Fish:	No applicable toxicity data		
Remarks - Acute - Aquatic	No applicable toxicity data		
invertebrates.:			
Remarks - Acute - Aquatic	No applicable toxicity data		
plants:			



505417JPDC GREEN

Version Number 1.2 Revision Date 09/19/2019 Page 14 of 21 Print Date 09/20/2019

Remarks - Chronic - Fish:	No applicable toxicity data		
Remarks - Chronic -	No applicable toxicity data		
Aquatic invertebrates.:	The approach territy data		
	-bis(2-ethylhexyl) ester, sodium salt (1	:1)	
	Acute LC50 28 Mg/l Fresh water	Fish - Fish	96 h
Remarks - Acute - Fish:	Acute		, , ,
Tremains Treate Tish	Acute EC50 43 Mg/l Fresh water	Aquatic invertebrates.	48 h
	Troute Bees to Hagilion water	Daphnia	.0 11
Remarks - Acute - Aquatic	Acute	<u> </u>	
invertebrates.:			
	Acute EC50 39.5 Mg/l Fresh water	Aquatic plants - Algae	72 h
Remarks - Acute - Aquatic	Acute		•
plants:			
Remarks - Chronic - Fish:	No applicable toxicity data		
Remarks - Chronic -	No applicable toxicity data		
Aquatic invertebrates.:	and approximate the second second		
Cadmium	ı		
	Acute LC50 0.001 Mg/l Fresh	Fish - Fish	96 h
	water		
Remarks - Acute - Fish:	Acute	<u> </u>	•
	Acute EC50 0.0135 Mg/l Fresh	Aquatic invertebrates.	48 h
	water	Daphnia	
Remarks - Acute - Aquatic	Acute	•	
invertebrates.:			
	Acute LC50 0.000072 Mg/l Marine	Aquatic invertebrates.	48 h
	water	Crustaceans	
Remarks - Acute - Aquatic	Acute		
invertebrates.:			
	Acute EC50 0.097 Mg/l Fresh	Aquatic plants - Algae	72 h
	water		
Remarks - Acute - Aquatic	Acute		
plants:		T	_
	Acute EC50 0.095 Mg/l Marine	Aquatic plants - Algae	96 h
	water		
Remarks - Acute - Aquatic	Acute		
plants:		T	T
	Acute EC50 0.2 Mg/l Fresh water	Aquatic plants -	96 h
		Aquatic plants	
Remarks - Acute - Aquatic	Acute		
plants:	A NOEC 0 002 M /LE 1	A	061
	Acute NOEC 0.002 Mg/l Fresh	Aquatic plants - Algae	96 h
D 1 4 4 4 4	water		
Remarks - Acute - Aquatic	Chronic		
plants:			



505417JPDC GREEN

Version Number 1.2 Revision Date 09/19/2019 Page 15 of 21 Print Date 09/20/2019

	Chronic NOEC 0.00002 Mg/l Fresh	Fish - Fish	28 d
Remarks - Chronic - Fish:	water Chronic		
Remarks - Chronic -	No applicable toxicity data		
Aquatic invertebrates.:			
Titanium oxide			
	Acute LC50 > 1,000 Mg/l Marine	Fish - Fish	96 h
	water		
Remarks - Acute - Fish:	Acute		
	Acute LC50 3 Mg/l Fresh water	Aquatic invertebrates.	48 h
		Crustaceans	
Remarks - Acute - Aquatic	Acute		
invertebrates.:			
	Acute LC50 6.5 Mg/l Fresh water	Aquatic invertebrates.	48 h
	-	Daphnia	
Remarks - Acute - Aquatic	Acute		
invertebrates.:			
Remarks - Acute - Aquatic	No applicable toxicity data		
plants:			
Remarks - Chronic - Fish:	No applicable toxicity data		
Remarks - Chronic -	No applicable toxicity data		
Aquatic invertebrates.:			

Conclusion/Summary : Not available.

Persistence and degradability

Conclusion/Summary : Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Butanedioic acid, 2-sulfo-, 1,4-bis(2-	-	9.33	low
ethylhexyl) ester, sodium salt (1:1)			
Cadmium	-	1,345.00	high

Mobility in soil

Soil/water partition coefficient

(KOC)

Not available.

Other adverse effects : No known significant effects or critical hazards.



505417JPDC GREEN

Version Number 1.2 Page 16 of 21 Revision Date 09/19/2019 Print Date 09/20/2019

Section 13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

U.S.DOT 49CFR : Not regulated for transportation.

Ground/Air/Water

International Air : Consult mode specific transport rules

ICAO/IATA

International Water

IMO/IMDG

: Consult mode specific transport rules

Section 15. Regulatory information

U.S. Federal regulations : United States - TSCA 12(b) - Chemical export notification: None

of the components are listed.

United States - TSCA 4(a) - Final Test Rules: Not listed
United States - TSCA 4(a) - ITC Priority list: Not listed
United States - TSCA 4(a) - Proposed test rules: Not listed
United States - TSCA 4(f) - Priority risk review: Not listed
United States - TSCA 5(a)2 - Final significant new use rules: Not



505417JPDC GREEN

Version Number 1.2 Revision Date 09/19/2019

Page 17 of 21 Print Date 09/20/2019

listed

United States - TSCA 5(a)2 - Proposed significant new use rules:

Not listed

United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed

United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not

determined

United States - TSCA 8(a) - Preliminary assessment report

(PAIR): Not listed

United States - TSCA 8(c) - Significant adverse reaction (SAR):

Not listed

United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Listed Zinc sulfide

Cadmium

Octadecanoic acid, zinc salt (2:1)

C.I. Pigment Green 7

United States - EPA Clean water act (CWA) section 311 -

Hazardous substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental

release prevention - Flammable substances: Not listed

United States - EPA Clean air act (CAA) section 112 - Accidental

release prevention - Toxic substances: Not listed

United States - Department of commerce - Precursor chemical:

Not listed

Clean Air Act Section 112(b)

Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I

Substances

Clean Air Act Section 602 Class II

Substances

Chemicals)

DEA List I Chemicals (Precursor

DEA List II Chemicals (Essential

Listed

Not listed

Not listed

Not listed

Not listed

Chemicals)

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	L CAS-No.	IRO for component



505417JPDC GREEN

Version Number 1.2 Revision Date 09/19/2019 Page 18 of 21 Print Date 09/20/2019

Cadmium	7440-43-9	10 lb(s)
		4.54 kg

SARA 311/312

Classification : COMBUSTIBLE DUSTS

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A

Composition/information on ingredients

Name	%	Classification
Silica	>= 1 - <= 3	EYE IRRITATION - Category 2B
Octadecanoic acid, zinc salt	>= 10 - <= 25	COMBUSTIBLE DUSTS
(2:1)		
Butanedioic acid, 2-sulfo-,	>= 10 - <= 25	ACUTE TOXICITY - oral - Category 4
1,4-bis(2-ethylhexyl) ester,		SKIN IRRITATION - Category 2
sodium salt (1:1)		EYE IRRITATION - Category 2A
Cadmium	>= 10 - <= 25	CARCINOGENICITY - Category 1A
Titanium oxide	>= 10 - <= 25	CARCINOGENICITY - Category 2

SARA 313

Form R - Reporting requirements

Product name	CAS number	%
Benzene, 1,2,3,4,5,6-hexachloro-	118-74-1	> 0 - <= 0.1
Zinc sulfide	1314-98-3	>= 1 - <= 3
Octadecanoic acid, zinc salt (2:1)	557-05-1	>= 10 - <= 25
Cadmium	7440-43-9	>= 10 - <= 25

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.



505417JPDC GREEN

Version Number 1.2 Revision Date 09/19/2019 Page 19 of 21 Print Date 09/20/2019

State regulations

Pennsylvania

MassachusettsNone of the components are listed.New YorkThe following components are listed:

Cadmium

New Jersey : The following components are listed:

Titanium oxide Cadmium

Octadecanoic acid, zinc salt (2:1)

Zinc sulfide

C.I. Pigment Green 7

Sulfuric acid, barium salt (1:1) The following components are listed:

Sulfuric acid, barium salt (1:1)

C.I. Pigment Green 7

Titanium oxide

Cadmium

Octadecanoic acid, zinc salt (2:1)

Zinc sulfide

Silica

California Prop. 65

WARNING: This product can expose you to chemicals including Cadmium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Titanium oxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable
		dosage level
Cadmium	Yes.	Yes.
Titanium oxide	-	-

United States inventory (TSCA 8b) : All components are active or exempted.

Canada inventory : All components are listed or exempted.

International regulations



505417JPDC GREEN

 Version Number 1.2
 Page 20 of 21

 Revision Date 09/19/2019
 Print Date 09/20/2019

Inventory list

Australia: All components are listed or exempted.Canada: All components are listed or exempted.China: All components are listed or exempted.Europe inventory: All components are listed or exempted.

Japan: Not determined.New Zealand: Not determined.

Philippines : All components are listed or exempted.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Turkey : Not determined.

United States : All components are active or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		3
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

History

Date of printing: 09/20/2019Date of issue/Date of revision: 09/19/2019Date of previous issue: 11/02/2012Version: 1.2

Key to abbreviations : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of

Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient



505417JPDC GREEN

Version Number 1.2 Revision Date 09/19/2019 Page 21 of 21 Print Date 09/20/2019

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine

pollution)

UN = United Nations

References : Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability 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. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.