

# SILCOPAS BROWN

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# SAFETY DATA SHEET

## SILCOPAS BROWN

# **Section 1. Identification**

GHS product identifier : SILCOPAS BROWN

Chemical name: MixtureCAS number: MixtureOther means of identification: FO20041153Product type: liquid

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

**Product use** : Industrial applications. Plastics.

Supplier's details : GSDI Specialty Dispersions, Inc.

1675 Navarre Road SW, Massillon,

Ohio USA 44646

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 for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants 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. See sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

**OSHA/HCS status** 

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.



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Classification of the substance or

mixture

Not classified. Not classified.

**GHS** label elements

Signal word : No signal word. No signal word.

**Hazard statements** : No known significant effects or critical hazards.

No known significant effects or critical hazards.

**Precautionary statements** 

General:Not applicable. Not applicable.Prevention:Not applicable. Not applicable.Response:Not applicable. Not applicable.Storage:Not applicable. Not applicable.Disposal:Not applicable. Not applicable.Supplemental label elements:None known. None known.

**Hazards not otherwise classified** : None known.

None known.

# Section 3. Composition/information on ingredients

Substance/mixture: MixtureMixtureChemical name: Mixture

Other means of identification FO20041153

#### CAS number/other identifiers

Ingredient name	%	CAS number
Titanium dioxide	0.1 - 1	13463-67-7
Titanium dioxide	0.1 - 1	13463-67-7

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.



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# 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. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if

irritation occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable

for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Get medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated

clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion** : Wash out mouth with water. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. 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. Do not induce vomiting unless directed to do so by medical

personnel. Get medical attention if symptoms occur.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contact : No known significant effects or critical hazards. No known significant

effects or critical hazards.

Inhalation : No known significant effects or critical hazards. No known significant

effects or critical hazards.

Skin contact: No known significant effects or critical hazards. No known significant

effects or critical hazards.

**Ingestion**: No known significant effects or critical hazards. No known significant

effects or critical hazards.

### Over-exposure signs/symptoms



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Eye contact No specific data. No specific data. Inhalation No specific data. No specific data. **Skin contact** No specific data. No specific data. Ingestion No specific data. 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. Treat symptomatically. Contact poison treatment specialist immediately if

large quantities have been ingested or inhaled.

No specific treatment. No specific treatment. **Specific treatments** 

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

suitable training. No action shall be taken involving any personal risk

or without suitable training.

See toxicological information (Section 11)

# **Section 5. Firefighting measures**

#### Extinguishing media

Suitable extinguishing media In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.In

case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

None known. None known. Unsuitable extinguishing media

Specific hazards arising from the

chemical

In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the

container may burst.

**Hazardous thermal** decomposition products No specific data. No specific data.

Special protective actions for fire-

fighters

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. 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.

Special protective equipment for

fire-fighters

Fire-fighters should wear appropriate protective equipment and self-

contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA)

with a full face-piece operated in positive pressure mode.



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# Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialized clothing is required to deal with the spillage, take note 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). 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 : Stop leak if without risk. Move containers from spill area. Dilute with

water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste

disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Prevent

entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section



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1 for emergency contact information and Section 13 for waste disposal. Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). 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** 

Advice on general occupational hygiene

- Put on appropriate personal protective equipment (see Section 8).Put on appropriate personal protective equipment (see Section 8).
- 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. 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 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. Keep container tightly closed and sealed until 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. Store in accordance with local regulations. 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. Keep container tightly closed and sealed until 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.



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# Section 8. Exposure controls/personal protection

## **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits	
Ingredient name	Exposure limits	
Titanium dioxide	OSHA PEL 1989 (1989-03-01)	
	PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust	
	OSHA PEL (1993-06-30)	
	PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust	
	NIOSH REL (1994-06-01)	
	ACGIH TLV (1996-05-18)	
	TLV-TWA: Threshold Limit Value - Time weighted average PEL:	
	Permissible Exposure Level 10 mg/m3	
Titanium dioxide	OSHA PEL 1989 (1989-03-01)	
	PEL: Permissible Exposure Level 10 mg/m3 Form: Total dust	
	OSHA PEL (1993-06-30)	
	PEL: Permissible Exposure Level 15 mg/m3 Form: Total dust	
	NIOSH REL (1994-06-01)	
	ACGIH TLV (1996-05-18)	
	TLV-TWA: Threshold Limit Value - Time weighted average PEL:	
	Permissible Exposure Level 10 mg/m3	

**Appropriate engineering controls** 

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Good general ventilation should be

sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls** 

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. 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**



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#### **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. 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: safety glasses with side-shields. 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: safety glasses with side-shields.

#### **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. 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.

#### **Body protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be 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. 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



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used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. 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 liquid [Paste.] Color **BROWN** Odor Not available. **Odor threshold** Not available. Not available. **Melting point** Not available. **Boiling point** Not available. Not available. Flash point **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 pressure

Vapor density

Relative density

Solubility

Solubility in water

Partition coefficient: n
Not available.

Not available.

Not available.

Not available.

Not available.

octanol/water

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

Viscosity : Dynamic: Not available.

Kinematic: Not available.

# Section 10. Stability and reactivity

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

its ingredients. No specific test data related to reactivity available for

this product or its ingredients.

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



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Section 7). 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. Under normal conditions of storage and use, hazardous

reactions will not occur.

Conditions to avoid : Keep away from extreme heat and oxidizing agents. Keep away from

extreme heat and oxidizing agents.

**Incompatible materials** : Keep away from strong acids.

Oxidizer. Keep away from strong acids.

Oxidizer.

**Hazardous decomposition** 

products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. 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
Titanium dioxide				
	LC50 Inhalation	Rat - Male	6.82 Mg/l	4 h
	LD50 Dermal	Rabbit	> 5,000 mg/kg	-
Titanium dioxide				
	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
Titanium dioxide	Skin - Mild irritant	Human		72 hrs	-
	Skin - Mild irritant	Human		72 hrs	-

Conclusion/Summary

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

#### Sensitization

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**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.

**Reproductive toxicity** 

**Conclusion/Summary** : Mixture.Not fully tested.

**Teratogenicity** 

**Conclusion/Summary** : Mixture.Not fully tested.

**Specific target organ toxicity (single exposure)** 

Not available. Not available.

Specific target organ toxicity (repeated exposure)

Not available. Not available.

**Aspiration hazard** 

Not available. Not available.

Information on likely routes of

exposure

Not available.

Potential acute health effects

**Eye contact** : No known significant effects or critical hazards. No known significant

effects or critical hazards.

Inhalation : No known significant effects or critical hazards. No known significant

effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards. No known significant

effects or critical hazards.

Ingestion : No known significant effects or critical hazards. No known significant

effects or critical hazards.



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#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data. No specific data.Inhalation: No specific data. No specific data.Skin contact: No specific data. No specific data.Ingestion: No specific data. No specific data.

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

#### **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 : No known significant effects or critical hazards. No known significant

effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards. No known significant

effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards. No known significant

effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards. No known significant

effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards. No known significant

effects or critical hazards.

Fertility effects : No known significant effects or critical hazards. No known significant

effects or critical hazards.

### Numerical measures of toxicity

#### **Acute toxicity estimates**

Not available.



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# Section 12. Ecological information

## **Toxicity**

Acute LC50 > 1,000,000 μg/l Marine water Acute LC50 > 1,000 mg/l Fresh water Acute LC50 13 mg/l Fresh water Acute LC50 6.5 mg/l Fresh water Acute LC50 3 mg/l Fresh water Acute LC50 15.9 mg/l Fresh water Acute LC50 3.6 mg/l Fresh water	Fish - Fish  Aquatic invertebrates. Daphnia  Aquatic invertebrates. Daphnia  Aquatic invertebrates. Crustaceans  Aquatic invertebrates. Crustaceans  Aquatic invertebrates. Crustaceans  Aquatic invertebrates.	96 h 96 h 48 h 48 h 48 h
Marine water Acute LC50 > 1,000 mg/l Fresh water Acute LC50 13 mg/l Fresh water Acute LC50 6.5 mg/l Fresh water Acute LC50 3 mg/l Fresh water Acute LC50 15.9 mg/l Fresh water	Fish - Fish  Aquatic invertebrates. Daphnia  Aquatic invertebrates. Daphnia  Aquatic invertebrates. Crustaceans  Aquatic invertebrates. Crustaceans	96 h 48 h 48 h 48 h
Acute LC50 > 1,000 mg/l Fresh water  Acute LC50 13 mg/l Fresh water  Acute LC50 6.5 mg/l Fresh water  Acute LC50 3 mg/l Fresh water  Acute LC50 15.9 mg/l Fresh water	Aquatic invertebrates. Daphnia Aquatic invertebrates. Daphnia Aquatic invertebrates. Crustaceans Aquatic invertebrates. Crustaceans Crustaceans	48 h 48 h
water Acute LC50 13 mg/l Fresh water Acute LC50 6.5 mg/l Fresh water Acute LC50 3 mg/l Fresh water Acute LC50 15.9 mg/l Fresh water	Aquatic invertebrates. Daphnia Aquatic invertebrates. Daphnia Aquatic invertebrates. Crustaceans Aquatic invertebrates. Crustaceans Crustaceans	48 h 48 h
Acute LC50 13 mg/l Fresh water  Acute LC50 6.5 mg/l Fresh water  Acute LC50 3 mg/l Fresh water  Acute LC50 15.9 mg/l Fresh water	Daphnia Aquatic invertebrates. Daphnia Aquatic invertebrates. Crustaceans Aquatic invertebrates. Crustaceans	48 h
Acute LC50 6.5 mg/l Fresh water  Acute LC50 3 mg/l Fresh water  Acute LC50 15.9 mg/l Fresh water	Daphnia Aquatic invertebrates. Daphnia Aquatic invertebrates. Crustaceans Aquatic invertebrates. Crustaceans	48 h
Acute LC50 3 mg/l Fresh water  Acute LC50 15.9 mg/l Fresh water	Aquatic invertebrates. Daphnia Aquatic invertebrates. Crustaceans Aquatic invertebrates. Crustaceans	48 h
Acute LC50 3 mg/l Fresh water  Acute LC50 15.9 mg/l Fresh water	Daphnia Aquatic invertebrates. Crustaceans Aquatic invertebrates. Crustaceans	48 h
Acute LC50 15.9 mg/l Fresh water	Aquatic invertebrates. Crustaceans Aquatic invertebrates. Crustaceans	
Acute LC50 15.9 mg/l Fresh water	Crustaceans Aquatic invertebrates. Crustaceans	
<u> </u>	Aquatic invertebrates. Crustaceans	48 h
<u> </u>	Crustaceans	48 h
Acute LC50 3.6 mg/l Fresh water		
Acute LC50 3.6 mg/l Fresh water	Aquatic invertebrates	
٥	riquate invertebrates.	48 h
	Crustaceans	
Acute LC50 11 mg/l Fresh water	Aquatic invertebrates.	48 h
	Crustaceans	
Acute LC50 13.4 mg/l Fresh water	Aquatic invertebrates.	48 h
Č	Crustaceans	
Acute EC50 27.8 mg/l Fresh water	Aquatic invertebrates.	48 h
	Daphnia	
Acute EC50 19.3 mg/l Fresh water	Aquatic invertebrates.	48 h
	Daphnia	
Acute EC50 35.306 mg/l Fresh	Aquatic invertebrates.	48 h
water	Daphnia	
	1	•
Acute LC50 > 1,000,000 μg/l	Fish - Fish	96 h
Marine water		
Acute LC50 > 1,000 mg/l Fresh	Fish - Fish	96 h
water		
	Aquatic invertebrates.	48 h
	Daphnia	
Acute LC50 6.5 mg/l Fresh water	1	48 h
2	Daphnia	
Acute LC50 3 mg/l Fresh water		48 h
Acute LC50 15.9 mg/l Fresh water		48 h
Acute I C50 3 6 mg/l Fresh water		48 h
	Acute LC50 13.4 mg/l Fresh water  Acute EC50 27.8 mg/l Fresh water  Acute EC50 19.3 mg/l Fresh water  Acute EC50 35.306 mg/l Fresh water  Acute LC50 > 1,000,000 µg/l  Marine water  Acute LC50 > 1,000 mg/l Fresh	Acute LC50 11 mg/l Fresh water  Acute LC50 13.4 mg/l Fresh water  Acute EC50 27.8 mg/l Fresh water  Acute EC50 27.8 mg/l Fresh water  Acute EC50 19.3 mg/l Fresh water  Acute EC50 35.306 mg/l Fresh  Water  Acute LC50 35.306 mg/l Fresh  Water  Acute LC50 > 1,000,000 µg/l  Marine water  Acute LC50 > 1,000 mg/l Fresh  Water  Acute LC50 > 1,000 mg/l Fresh  Water  Acute LC50 13 mg/l Fresh water  Acute LC50 35.306 mg/l Fresh  Water  Acute LC50 > 1,000 mg/l Fresh  Water  Acute LC50 > 1,000 mg/l Fresh  Water  Acute LC50 3 mg/l Fresh water  Acute LC50 13 mg/l Fresh water  Acute LC50 3 mg/l Fresh water  Acute LC50 3 mg/l Fresh water  Acute LC50 3 mg/l Fresh water  Acute LC50 15.9 mg/l Fresh water



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	Crustaceans	
Acute LC50 11 mg/l Fresh water	Aquatic invertebrates.	48 h
	Crustaceans	
Acute LC50 13.4 mg/l Fresh water	Aquatic invertebrates.	48 h
	Crustaceans	
Acute EC50 27.8 mg/l Fresh water	Aquatic invertebrates.	48 h
	Daphnia	
Acute EC50 19.3 mg/l Fresh water	Aquatic invertebrates.	48 h
	Daphnia	
Acute EC50 35.306 mg/l Fresh	Aquatic invertebrates.	48 h
water	Daphnia	

Conclusion/Summary : Not available.

Persistence and degradability

Conclusion/Summary : Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Titanium dioxide		-	low
		-	low

#### **Mobility in soil**

Soil/water partition coefficient

(KOC)

efficient : Not available.

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

effects or critical hazards.

# **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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and



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contact with soil, waterways, drains and sewers. 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

<u>United States - RCRA Acute hazardous waste "P" List:</u> Not listed <u>United States - RCRA Acute hazardous waste "P" List:</u> Not listed

<u>United States - RCRA Toxic hazardous waste "U" List:</u> Not listed United States - RCRA Toxic hazardous waste "U" List: Not listed

# **Section 14. Transport information**

U.S.DOT 49CFR Ground/Air/Water : Not regulated for transportation.

International Air ICAO/IATA

: Consult mode specific transport rules

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

listed

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



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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 - 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

United States - TSCA 5(a)2 - Final significant new use rules: Not 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: Not listed

**United States - EPA Clean water act (CWA) section 307 - Priority pollutants:** Not listed

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

Hazardous substances: Not listed

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



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release prevention - Flammable substances: Not listed

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

release prevention - Toxic 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

**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** 

**DEA List I Chemicals (Precursor** 

Chemicals)

**DEA List II Chemicals (Essential** 

**Chemicals**)

Not listedNot listed

Not listedNot listed

Not listedNot listed

Not listedNot listed

(Essential : Not listedNot listed

#### US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

#### **SARA 311/312**

Classification : Not applicable. Not applicable.

#### **Composition/information on ingredients**

Name	%	Classification
Titanium dioxide	0.1 - 1	СН
Titanium dioxide	0.1 - 1	СН

## **SARA 313**

Not applicable.

**State regulations** 

Massachusetts: None of the components are listed. None of the components are listed.New York: None of the components are listed. None of the components are listed.New Jersey: None of the components are listed. None of the components are listed.Pennsylvania: None of the components are listed. None of the components are listed.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.



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California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

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

**Canada inventory** : All components are listed or exempted.

#### **International regulations**

#### **Inventory list**

Australia All components are listed or exempted. Canada All components are listed or exempted. All components are listed or exempted. China **Europe inventory** All components are listed or exempted. All components are listed or exempted. Japan All components are listed or exempted. **New Zealand Philippines** All components are listed or exempted. Republic of Korea All components are listed or exempted. Taiwan All components are listed or exempted.

Turkev : Not determined.

United States : All components are listed or exempted.

# Section 16. Other information

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

Health	-	0
Flammability		0
Physical hazards		0
Health	-	0
Flammability		0
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 are not required on SDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

#### **History**

Date of printing : 05/18/2017 Date of issue/Date of revision : 05/17/2017



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**Date of previous issue** : 00/00/0000

Version : 1.0

**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

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

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