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# SAFETY DATA SHEET

## 1. Identification

### Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
218262	R2A Agar	No data available

### Other means of identification

SDS number: 088100176110

### Recommended use and restriction on use

**Recommended use:** Laboratory Chemicals

**Restrictions on use:** None known.

### Manufacturer/Importer/Supplier/Distributor Information

#### Manufacturer

Company Name: BD Diagnostic Systems  
Address: 7 Loveton Circle  
Sparks, MD 21152 USA  
Telephone: 1 410 771 0100 or 1 800 638 8663  
Fax:  
Contact Person: Tech Services

**Emergency telephone number:** CHEMTREC 1 800 424 9300

## 2. Hazard(s) identification

### Hazard Classification

#### Health Hazards

Skin sensitizer Category 1

### Label Elements

**Hazard Symbol:**

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**Signal Word:** Warning

**Hazard Statement:** 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.

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

**Disposal:** P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Other hazards which do not result in GHS classification:** None.

<b>3. Composition/information on ingredients</b>
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## Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Propanoic acid, 2-oxo-, sodium salt (1:1)	No data available.	113-24-6	1.6469%
Sulfurous acid, sodium salt (1:1)	No data available.	7631-90-5	0.2264%
Iron trichloride	No data available.	7705-08-0	0.0055%

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

## 4. First-aid measures

- General information:** Get medical attention if symptoms occur.
- Ingestion:** If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Get medical attention immediately.
- Inhalation:** Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. Get medical attention if symptoms persist.
- 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 promptly if symptoms occur after washing.

### Most important symptoms/effects, acute and delayed

- Symptoms:** Symptoms may be delayed.
- Hazards:** May cause an allergic skin reaction.

### Indication of immediate medical attention and special treatment needed



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**Treatment:** Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

## 5. Fire-fighting measures

**General Fire Hazards:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use water to keep fire exposed containers cool and disperse vapors.

### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Water spray, fog, CO<sub>2</sub>, dry chemical, or alcohol resistant foam.

**Unsuitable extinguishing media:** Avoid water in straight hose stream; will scatter and spread fire.

**Specific hazards arising from the chemical:** Fire or excessive heat may produce hazardous decomposition products.

### 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:** Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Contact local authorities in case of spillage to drain/aquatic environment.



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**Methods and material for containment and cleaning up:**

Stop leak if possible without any risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Collect for salvage or disposal. Prevent runoff from entering drains, sewers, or streams. Report spills as required to appropriate authorities. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

**Environmental Precautions:**

Avoid release to the environment.

**7. Handling and storage**

**Handling**

**Technical measures (e.g. Local and general ventilation):**

Adequate ventilation should be provided whenever the material is heated or mists are generated.

**Safe handling advice:**

Wash promptly with soap and water if skin becomes contaminated. When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required.

**Contact avoidance measures:**

No data available.

**Hygiene measures:**

Do not eat, drink or smoke when using the product. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid contact with skin.

**Storage**

**Safe storage conditions:**

Store in tightly closed original container in a dry, cool and well-ventilated place.

**Safe packaging materials:**

No data available.

**Storage Temperature:**

No data available.



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## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Sulfurous acid, sodium salt (1:1)	TWA	5 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	5 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
Sulfurous acid, sodium salt (1:1) - Particulate.	AN ESL	5 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
	ST ESL	50 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
Sulfurous acid, sodium salt (1:1)	TWA PEL	5 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	TWA	5 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (12 2010)
	REL	5 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
Iron trichloride - as Fe	TWA	1 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	1 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
Iron trichloride	AN ESL	1 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL	10 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
Iron trichloride - as Fe	TWA PEL	1 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	TWA	1 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (12 2010)
	REL	1 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)

#### Appropriate Engineering Controls

Adequate ventilation should be provided whenever the material is heated or mists are generated.



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## Individual protection measures, such as personal protective equipment

<b>General information:</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
<b>Eye/face protection:</b>	Wear safety glasses with side shields (or goggles).
<b>Skin Protection</b>	
<b>Hand Protection:</b>	Use suitable protective gloves if risk of skin contact.
<b>Other:</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>Respiratory Protection:</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
<b>Hygiene measures:</b>	Do not eat, drink or smoke when using the product. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Avoid contact with skin.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	solid
<b>Form:</b>	solid
<b>Color:</b>	According to product specification.
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Melting point/freezing point:</b>	No data available.
<b>Initial boiling point and boiling range:</b>	No data available.
<b>Flash Point:</b>	Not applicable



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<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Completely Soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	Not determined.

## 10. Stability and reactivity

<b>Reactivity:</b>	Stable
<b>Chemical Stability:</b>	No data available.
<b>Possibility of hazardous reactions:</b>	None under normal conditions.
<b>Conditions to avoid:</b>	Avoid exposure to high temperatures or direct sunlight.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	By heating and fire, harmful vapors/gases may be formed.



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## 11. Toxicological information

**General information:** May cause allergic skin reaction based on human experience.

### Information on likely routes of exposure

**Ingestion:** Ingestion may cause irritation and malaise.

**Inhalation:** Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

**Skin Contact:** Prolonged or repeated contact may cause skin sensitization in susceptible individuals.

**Eye contact:** Avoid contact with eyes.

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

**Ingestion:** No data available.

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

**Oral  
Product:** ATEmix: 50,882.82 mg/kg

**Dermal  
Product:** ATEmix: 50,882.82 mg/kg

**Inhalation  
Product:** No data available.

**Repeated dose toxicity  
Product:** No data available.



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**Specified substance(s):**

Sulfurous acid, sodium salt (1:1)	NOAEL (Rat, Oral, 1 - 2 yr): 0.05 %(m) Oral Experimental result, Supporting study NOAEL (Rat(female), Oral, 8 Weeks): 70 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study NOAEL (Rat(Female, Male), Oral, 10 - 730 d): 108 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study NOAEL (Rat(Female, Male), Oral, 21 - 104 Weeks): 108 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Pig(Female, Male), Oral, 48 Weeks): 0.35 %(m) Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study
Iron trichloride	LOAEL (Rat, Oral): 10 mg/l Oral Experimental result, Supporting study NOAEL (Rat(Female, Male), Oral, 13 Weeks): 0.5 %(m) Oral Experimental result, Key study NOAEL (Rat, Oral): 1 mg/l Oral Experimental result, Supporting study NOAEL (Rat, Oral, 6 Months): 2 mg/kg Oral Experimental result, Supporting study

**Skin Corrosion/Irritation**

**Product:** No data available.

**Specified substance(s):**

Sulfurous acid, sodium salt (1:1)	in vivo (Rabbit): Not irritant Read-across from supporting substance (structural analogue or surrogate), Key study
Iron trichloride	in vivo (Rabbit): not corrosive Experimental result, Supporting study

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.



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**Respiratory or Skin Sensitization**

**Product:** No data available.

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

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

No carcinogenic components identified

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

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

**Other effects:**

No data available.



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## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Specified substance(s):

Sulfurous acid,  
sodium salt (1:1) LC 50 (Leuciscus idus, 96 h): > 215 - < 464 mg/l Read-across  
from supporting substance (structural analogue or surrogate), Key  
study  
LC 50 (Oncorhynchus mykiss, 96 h): 177.8 mg/l Read-across from  
supporting substance (structural analogue or surrogate),  
Supporting study  
LC 50 (Leuciscus idus, 96 h): 316 mg/l Read-across from  
supporting substance (structural analogue or surrogate),  
Supporting study  
LC 50 (Leuciscus idus, 96 h): 316 mg/l Read-across from  
supporting substance (structural analogue or surrogate), Key  
study  
NOAEL (Leuciscus idus, 96 h): 215 mg/l Read-across from  
supporting substance (structural analogue or surrogate),  
Supporting study

Iron trichloride NOAEL (Gambusia affinis, 96 h): 55.1 mg/l Not specified, Not  
specified  
LC 50 (Lepomis macrochirus, 96 h): 20.3 mg/l Experimental  
result, Supporting study  
LC 50 (Gambusia affinis, 96 h): 75.6 mg/l Not specified, Not  
specified  
LC 50 (Oryzias latipes, 48 h): 23 mg/l Not specified, Not specified  
LC 0 (Danio rerio, 48 h): 92.8 mg/l Experimental result, Not  
specified

##### Aquatic Invertebrates

**Product:** No data available.

##### Specified substance(s):

Sulfurous acid, EC 100 (Daphnia magna, 48 h): 125 mg/l Read-across from

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sodium salt (1:1)	supporting substance (structural analogue or surrogate), Key study EC 50 (Daphnia magna, 48 h): 89 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study ED 0 (Daphnia magna, 48 h): 62.5 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
Iron trichloride	EC 50 (Nitokra spinipes, 96 h): 46.4 - 81.2 mg/l Experimental result, Not specified EC 50 (Asellus sp., 48 h): 235.7 mg/l Experimental result, Not specified EC 50 (Daphnia magna, 48 h): 29.74 mg/l Experimental result, Not specified EC 50 (48 h): 29 - 95 mg/l Experimental result, Not specified EC 50 (Daphnia magna, 48 h): 9.6 mg/l Experimental result, Supporting study

### Chronic hazards to the aquatic environment:

#### Fish

**Product:** No data available.

**Specified substance(s):**

Sulfurous acid, sodium salt (1:1) NOAEL (Danio rerio, 34 d):  $\geq$  316 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study

Iron trichloride NOAEL (Pimephales promelas, 33 d): 0.32 mg/l Experimental result, Supporting study  
NOAEL (Pimephales promelas, 33 d): 1 mg/l Experimental result, Supporting study  
LOAEL (Pimephales promelas, 33 d): 1 mg/l Experimental result, Supporting study  
LOAEL (Pimephales promelas, 33 d): 1.6 mg/l Experimental result, Supporting study

#### Aquatic Invertebrates

**Product:** No data available.

**Specified substance(s):**



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Sulfurous acid, sodium salt (1:1)	NOAEL (Daphnia magna, 21 d): > 10 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study LC 0 (Daphnia magna, 21 d): > 10 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
Iron trichloride	LOAEL (Daphnia pulex, 21 d): 1.3 mg/l Experimental result, Supporting study EC 50 (30 d): 63.8 mg/l Experimental result, Not specified NOAEL (Daphnia pulex, 21 d): 0.7 mg/l Experimental result, Supporting study EC 50 (30 d): 38.4 mg/l Experimental result, Not specified EC 50 (Daphnia magna, 21 d): 15.1 mg/l Experimental result, Not specified

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Specified substance(s):**



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Iron trichloride      Salmo trutta, Bioconcentration Factor (BCF): 38.2 - 663 Aquatic sediment Experimental result, Supporting study  
Salmo trutta, Bioconcentration Factor (BCF): 13.5 - 91.7 Aquatic sediment Experimental result, Supporting study  
Cyprinus carpio, Bioconcentration Factor (BCF): 2 - 2.9 Aquatic sediment Read-across based on grouping of substances (category approach), Key study  
Cyprinus carpio, Bioconcentration Factor (BCF): <= 20 Aquatic sediment Read-across based on grouping of substances (category approach), Key study  
Salmo trutta, Bioconcentration Factor (BCF): 0.8 - 3 Aquatic sediment Experimental result, Supporting study

**Partition Coefficient n-octanol / water (log Kow)**

**Product:**      Log Kow: No data available.

**Mobility in soil:**      No data available.

**Known or predicted distribution to environmental compartments**

Propanoic acid, 2-oxo-, sodium salt (1:1)      No data available.  
Sulfurous acid, sodium salt (1:1)      No data available.  
Iron trichloride      No data available.

**Other adverse effects:**      No data available.

**13. Disposal considerations**

**General information:**      Dispose of waste and residues in accordance with local authority requirements.

**Disposal instructions:**      Discharge, treatment, or disposal may be subject to national, state, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

**Contaminated Packaging:**      No data available.



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## 14. Transport information

<b>DOTUN Number:</b>	Not regulated.
<b>UN Proper Shipping Name:</b>	Not regulated.
<b>Transport Hazard Class(es)</b>	
Class:	Not regulated.
Label(s):	Not regulated.
<b>Packing Group:</b>	Not regulated.
<b>Marine Pollutant:</b>	Not regulated.
Limited quantity	Not regulated.
Excepted quantity	Not regulated.
<b>Special precautions for user:</b>	Not regulated.

### IMDG

<b>UN Number:</b>	Not regulated.
<b>UN Proper Shipping Name:</b>	Not regulated.
<b>Transport Hazard Class(es)</b>	
Class:	Not regulated.
Subsidiary risk:	Not regulated.
EmS No.:	Not regulated.
<b>Packing Group:</b>	Not regulated.
<b>Environmental Hazards</b>	
Marine Pollutant:	Not regulated.
<b>Special precautions for user:</b>	Not regulated.

### IATA

<b>UN Number:</b>	Not regulated.
<b>Proper Shipping Name:</b>	Not regulated.
<b>Transport Hazard Class(es):</b>	
Class:	Not regulated.
Subsidiary risk:	Not regulated.
<b>Packing Group:</b>	Not regulated.
<b>Environmental Hazards</b>	
Marine pollutant:	Not regulated.
<b>Special precautions for user:</b>	Not regulated.



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## 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**

SODIUM BISULFITE  
FERRIC CHLORIDE

#### **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**



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Sulfurous acid, sodium salt (1:1)  
Iron trichloride

### **US State Regulations**

#### **US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

#### **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.

<b>16. Other information, including date of preparation or last revision</b>
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**Issue Date:** 08/20/2020

**Version #:** 1.1

**Revision Information:**

**Further Information:** No data available.



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