

Last revised date: 09/10/2021

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SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier

Product No.:	Product name:	Common name(s), synonym(s)
221267	BBL™ Chocolate II Agar	No data available

Other means of identification

SDS number: 088100177884

Recommended restrictions

Recommended use: Laboratory Chemicals

Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: BD, Integrated Diagnostic Solutions

Address: 7 Loveton Circle

Sparks, MD 21152

USA

Telephone: 1 844 823 5433 Fax: not available Contact Person: Tech Services

Emergency telephone number: CHEMTREC 1 800 424 9300

2. Hazard(s) identification

Hazard Classification

Not classified

Label Elements

Hazard Symbol: No symbol

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Signal Word: No signal word.

Hazard Statement: Precautionary Statements Not applicable Not applicable

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Hydrochloric acid	No data available.	7647-01-0	0.0578%
Starch	No data available.	9005-25-8	0.0429%
Potassium hydroxide (K(OH))	No data available.	1310-58-3	0.0027%
Sodium hydroxide (Na(OH))	No data available.	1310-73-2	0.0019%
Nitric acid, iron(3+) salt (3:1)	No data available.	10421-48-4	0.0001%

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

4. First-aid measures

Description of necessary first-aid measures

General information: Get medical attention if symptoms occur.

Inhalation: Provide fresh air, warmth and rest, preferably in comfortable

upright sitting position.

Skin Contact: Wash contact areas with soap and water. Remove

contaminated clothing. Launder contaminated clothing

before reuse.

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Eye contact: Flush thoroughly with water. If irritation occurs, get medical

assistance.

Ingestion: Get medical attention if symptoms occur.

Personal Protection for First-aid Responders:

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

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

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

smoking. Ventilate. Use water spray to keep fire-exposed

containers cool.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

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

Unsuitable

extinguishing media:

None known.

Specific hazards arising

from the chemical:

None known.

Special protective equipment and precautions for firefighters



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Special fire fighting procedures:

No unusual fire or explosion hazards noted.

Special protective equipment for firefighters:

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:

No special precautionary health measures should be needed under anticipated conditions of use.

Methods and material for containment and cleaning up:

No specific clean-up procedure noted.

Environmental Precautions: Avoid release to the environment.

7. Handling and storage

Handling

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

No special requirements under ordinary conditions of use and with

adequate ventilation.

Safe handling advice: 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.

Storage

Safe storage conditions: Store in a cool, dry place. Keep container tightly closed.

Safe packaging materials: No data available.



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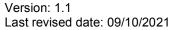
8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Lin	nit Values	Source
Hydrochloric acid	Ceiling	5 ppm	7 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	Ceiling	5 ppm	7 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	ST ESL		130 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL		5.7 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL		8.4 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	ST ESL		190 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	Ceiling	5 ppm	7 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	Ceiling	2 ppm		US. ACGIH Threshold Limit Values, as amended (12 2010)
	Ceil_Time	5 ppm	7 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
	Ceiling	5 ppm	7 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	IDLH	50 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
Starch - Respirable fraction.	TWA		5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Starch - Total dust.	TWA		15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
Starch - Respirable fraction.	TWA		5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
Starch - Total dust.	TWA		15 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
Starch - Particulate.	AN ESL		5 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental

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			Quality), as amended (07 2011)
	ST ESL	50 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
Starch	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as amended (12 2010)
Starch - Total	REL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
Starch - Respirable.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)
Starch - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Starch - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Potassium hydroxide (K(OH))	Ceiling	2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	Ceiling	2 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
Potassium hydroxide (K(OH)) - Particulate.	AN ESL	2 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
	ST ESL	20 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
Potassium hydroxide (K(OH))	Ceiling	2 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	Ceiling	2 mg/m3	US. ACGIH Threshold Limit Values, as amended (12 2010)
	Ceil_Time	2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2016)
Sodium hydroxide (Na(OH))	Ceiling	2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	Ceiling	2 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
Sodium hydroxide (Na(OH)) - Particulate.	AN ESL	2 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
	ST ESL	20 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (07 2011)
Sodium hydroxide (Na(OH))	Ceiling	2 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	Ceiling	2 mg/m3	US. ACGIH Threshold Limit Values, as amended (12 2010)
	Ceil_Time	2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)

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	PEL	2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	IDLH	10 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)
Nitric acid, iron(3+) salt (3:1) - as Fe	TWA	1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	TWA	1 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
Nitric acid, iron(3+) salt (3:1)	ST ESL	10 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
	AN ESL	1 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (12 2010)
Nitric acid, iron(3+) salt (3:1) - as Fe	TWA PEL	1 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (08 2010)
	TWA	1 mg/m3	US. ACGIH Threshold Limit Values, as amended (12 2010)
	REL	1 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)

Appropriate Engineering Controls

No special requirements under ordinary conditions of use and with

adequate ventilation.

Individual protection measures, such as personal protective equipment

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

washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be

cleaned.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: Chemical resistant gloves

Other: Wear a lab coat or similar protective clothing.

Respiratory Protection:

Respiratory protection not required.

Hygiene measures: Observe good industrial hygiene practices.

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9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: Gel Form: Gel

Color: According to product specification.

Odor: Characteristic
Odor Threshold: No data available.
Melting Point: No data available.
Boiling Point: No data available.
Flammability: Not applicable

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: Not applicable
Explosive limit - lower: Not applicable
Flash Point: Not applicable
Self Ignition Temperature: Not determined.
Decomposition Not applicable

Temperature:

No data available.

Viscosity

pH:

Dynamic viscosity: Not determined.

Kinematic viscosity: Not determined.

Flow Time: Not applicable

Solubility(ies)

Solubility in Water:Completely SolubleSolubility (other):No data available.Partition coefficient (n-No data available.

octanol/water):

Vapor pressure:

Relative density:

Density:

No data available.

Not applicable

Vapor density (air=1):

Not applicable

Particle characteristics

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Particle Size: Not applicable
Particle Size Distribution: Not applicable
Specific surface area: Not applicable
Surface charge/Zeta Not applicable

potential:

Assessment: Not applicable
Shape: Not applicable
Crystallinity: Not applicable
Surface treatment: Not applicable

Other information

Metal Corrosion: Non-corrosive per US Department of Transportation testing

protocol.

10. Stability and reactivity

Reactivity: Material is stable under normal conditions.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

Not known.

Conditions to avoid: Avoid exposure to high temperatures or direct sunlight.

Incompatible Materials: Strong oxidizers.

Hazardous Decomposition

Products:

Not known.

11. Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

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Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Components:

Hydrochloric acid LD 50 (Rabbit): 900 mg/kg

Starch No data available.
Potassium hydroxide LD 50 (Rat): 388 mg/kg

(K(OH)) Experimental result, Key study LD 50 (Rat): 365 mg/kg

Experimental result, Supporting study LD 50 (Rat): 333 mg/kg

Experimental result, Key study

Sodium hydroxide LD 50 (Rabbit): 325 mg/kg

(Na(OH)) Experimental result, Supporting study

Nitric acid, iron(3+) salt LD 50 (Rat): 3,250 mg/kg (3:1) LD 50 (Rat): > 2,000 mg/kg

Read-across from supporting substance (structural analogue or surrogate),

Key study LD 50 (Rat): 2,625 mg/kg

Read-across from supporting substance (structural analogue or surrogate),

Supporting study LD 50 (Mouse): 1,025 mg/kg

Read-across from supporting substance (structural analogue or surrogate),

Supporting study

Dermal

Product: Not classified for acute toxicity based on available data.

Components:

Hydrochloric acid LD 50 (Mouse): 1,449 mg/kg

Starch No data available. Potassium hydroxide No data available.

(K(OH))

Sodium hydroxide No data available.

(Na(OH))

Nitric acid, iron(3+) salt LD 50 (Rat): > 2,000 mg/kg

(3:1) Read-across from supporting substance (structural analogue or surrogate),

Key study

Inhalation

Product: Not classified for acute toxicity based on available data.

Components:

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Hydrochloric acid Gas, Experimental result, Supporting study Gas, Experimental result,

Supporting study LC 50 (Mouse): 3.2 mg/l

Inhalation, Experimental result, Supporting study Inhalation, Experimental

result, Key study LC 50 (Mouse): 16.5 mg/l

Inhalation, Experimental result, Supporting study LC 50 (Rat): 8.3 mg/l Inhalation, Experimental result, Key study Inhalation, Experimental result, Supporting study Inhalation, Experimental result, Key study LC 50 (Rat):

45.6 mg/l

Inhalation, Experimental result, Key study Inhalation, Experimental result,

Supporting study No data available.

Starch
Potassium hydroxide

(K(OH))

Sodium hydroxide

(Na(OH))

Nitric acid, iron(3+) salt

(3:1)

No data available.

No data available.

No data available.

Repeated dose toxicity

Product: Components: No data available.

Hydrochloric acid NOAEL (Mouse(Female, Male), Inhalation, 4 - 91 d): 20 ppm(m) Inhalation

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation, 4 - 91 d): 20 ppm(m) Inhalation

Experimental result, Key study

NOAEL (Rat(Female, Male), Inhalation, 4 - 91 d): 10 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Mouse(Female, Male), Inhalation, 4 - 91 d): 50 ppm(m) Inhalation

Experimental result, Key study

LOAEL (Rat(Female, Male), Inhalation, 4 - 91 d): 50 ppm(m) Inhalation

Experimental result, Key study

Starch

Potassium hydroxide

(K(OH))

Sodium hydroxide

(Na(OH))

Nitric acid, iron(3+) salt

(3:1)

No data available. No data available.

No data available.

NOAEL (Rat(Female, Male), Oral, 42 - 49 d): 100 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Supporting

study

NOAEL (Rat(Female, Male), Oral, 13 Weeks): 5,000 ppm(m) Oral Readacross from supporting substance (structural analogue or surrogate), Key

study

NOAEL (Rat(Female, Male), Oral, 42 - 49 d): >= 1,000 mg/kg Oral Readacross from supporting substance (structural analogue or surrogate),

Supporting study

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NOAEL (Rat(Female, Male), Oral, 13 Weeks): 0.5 %(m) Oral Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Rat(Female, Male), Oral, 13 Weeks): 277 - 314 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study

Skin Corrosion/Irritation

Product: No data available.

Components:

Hydrochloric acid Corrosive

Starch No data available.

Potassium hydroxide in vivo (Guinea pig): Corrosive in vivo (Rabbit): Corrosive in vivo (Rabbit): Irritating in vivo (Rabbit): Slightly irritating

Nitric acid, iron(3+) salt Irritating

(3:1)

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Hydrochloric acid Category 1 in vivo Rabbit, 3 - 7 d: EU

Category 1 in vivo Rabbit, 1 - 2 d: EU
Category 1 in vivo Rabbit, 1 - 24 hrs: EU
Category 1 in vivo Rabbit, 1 - 7 d: EU
Category 1 in vivo Rabbit, 1 hrs: EU
Category 1 in vivo Rabbit, 1 d: EU
Category 1 in vivo Rabbit, 1 d: EU
Category 1 in vivo Rabbit, 1 hrs: EU
Category 1 in vivo Rabbit, 1 hrs: EU
Category 1 in vivo Rabbit, 1 hrs: EU
Category 1 in vivo Rabbit, 1 d: EU
Category 1 in vivo Rabbit, 1 - 21 d: EU
Category 1 in vivo Rabbit, 1 - 2 d: EU
Category 1 in vivo Rabbit, 1 hrs: EU

Category 1 in vivo Rabbit, 1 hrs: EU

Starch No data available.

Potassium hydroxide Corrosive KOH 5% in vivo Rabbit, 24 hrs: (K(OH)) Corrosive KOH 5% in vivo Rabbit, 5 min:

Sodium hydroxide
(Na(OH))

Mild irritant in vivo Rabbit, 1 d: OECD GHS
Mild irritant in vivo Rabbit, 2 d: OECD GHS
Mild irritant in vivo Rabbit, 2 d: OECD GHS

Mild irritant in vivo Rabbit, 3 d: OECD GHS Mild irritant in vivo Rabbit, 4 d: OECD GHS

(3:1)

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Respiratory or Skin Sensitization

Product: No data available.

Components:

Hydrochloric acid No data available. Starch No data available.

Potassium hydroxide Skin sensitization:, in vivo (Guinea pig): Non sensitising

(K(OH))

Sodium hydroxide No data available.

(Na(OH))

Nitric acid, iron(3+) salt No data available.

(3:1)

Carcinogenicity

Product: No data available.

Components:

Hydrochloric acid No data available. Starch No data available. Potassium hydroxide No data available.

(K(OH))

Sodium hydroxide No data available.

(Na(OH))

Nitric acid, iron(3+) salt No data available.

(3:1)

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

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

No carcinogens present or none present in regulated quantities

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

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:

Hydrochloric acid No data available.
Starch No data available.
Potassium hydroxide No data available.

(K(OH))

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Sodium hydroxide

No data available.

(Na(OH))

Nitric acid, iron(3+) salt

No data available.

(3:1)

In vivo

Product: No data available.

Components:

Hydrochloric acid No data available. Starch No data available. Potassium hydroxide No data available.

(K(OH))

Sodium hydroxide No data available.

(Na(OH))

Nitric acid, iron(3+) salt No data available.

(3:1)

Reproductive toxicity

Product: No data available.

Components:

Hydrochloric acid No data available. Starch No data available. Potassium hydroxide No data available.

(K(OH))

Sodium hydroxide No data available.

(Na(OH))

Nitric acid, iron(3+) salt No data available.

(3:1)

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

Hydrochloric acid No data available. Starch No data available. Potassium hydroxide No data available.

(K(OH))

Sodium hydroxide No data available.

(Na(OH))

Nitric acid, iron(3+) salt No data available.

(3:1)

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Hydrochloric acid No data available.

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Starch Potassium hydroxide

(K(OH))

Sodium hydroxide

(Na(OH))

Nitric acid, iron(3+) salt

(3:1)

No data available. No data available.

No data available.

No data available.

Aspiration Hazard

Product: No data available.

Components:

Hydrochloric acid No data available. No data available. Starch No data available.

Potassium hydroxide

(K(OH))

Sodium hydroxide

(Na(OH))

Nitric acid, iron(3+) salt

(3:1)

No data available.

No data available.

Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Components:

LC 50 (Western mosquitofish (Gambusia affinis), 48 h): 282 mg/l Mortality Hydrochloric acid

LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 282 mg/l Mortality LC 50 (Western mosquitofish (Gambusia affinis), 24 h): 282 mg/l Mortality

No data available.

Potassium hydroxide

(K(OH))

Starch

LC 50 (Gambusia affinis, 96 h): 80 mg/l Experimental result, Supporting

study

NOAEL (Gambusia affinis, 96 h): 56 mg/l Experimental result, Supporting

study

LD Lo (Salvelinus fontinalis, 24 h): 50 mg/l Experimental result, Supporting

study

NOAEL (24 h): 28 mg/l Experimental result, Supporting study

LC 50 (Poecilia reticulata, 24 h): 165 mg/l Experimental result, Supporting



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study

Sodium hydroxide

(Na(OH))

Nitric acid, iron(3+) salt

(3:1)

No data available.

LC 50 (Pimephales promelas, 96 h): 1,010 mg/l Read-across from

supporting substance (structural analogue or surrogate), Supporting study LC 50 (Pimephales promelas, 96 h): 1,607 mg/l Read-across from

supporting substance (structural analogue or surrogate), Supporting study

LC 50 (Pimephales promelas, 96 h): 1,406 mg/l Read-across from

supporting substance (structural analogue or surrogate), Supporting study

Aquatic Invertebrates

Product: No data available. Components:

LC 50 (Green or European shore crab (Carcinus maenas), 48 h): 240 mg/l Hydrochloric acid

Mortality

LC 50 (Common shrimp, sand shrimp (Crangon crangon), 48 h): 260 mg/l

Mortality

Starch No data available.

Potassium hydroxide

(K(OH))

ED 0 (Dreissena polymorpha, 2 d): < 1 mg/l Experimental result, Supporting

studv

EC 100 (Dreissena polymorpha, 2 d): > 10 mg/l Experimental result,

Supporting study No data available.

Sodium hydroxide

(Na(OH))

Nitric acid, iron(3+) salt

(3:1)

LC 50 (Daphnia magna, 48 h): 323 mg/l Read-across from supporting

substance (structural analogue or surrogate). Key study

LC 50 (Daphnia magna, 48 h): 1,430 mg/l Read-across from supporting

substance (structural analogue or surrogate), Key study

LC 50 (Daphnia magna, 48 h): 453 mg/l Read-across from supporting

substance (structural analogue or surrogate), Key study

LC 50 (Daphnia magna, 48 h): 611 mg/l Read-across from supporting

substance (structural analogue or surrogate), Key study

Toxicity to Aquatic Plants

Product: Components: No data available.

Hydrochloric acid

No data available. No data available. Starch No data available.

Potassium hydroxide

(K(OH))

Sodium hydroxide No data available.

(Na(OH))

Nitric acid, iron(3+) salt

(3:1)

No data available.



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Toxicity to microorganisms

Product: No data available.

Components:

Hydrochloric acid No data available. Starch No data available. Potassium hydroxide No data available.

(K(OH))

Sodium hydroxide No data available.

(Na(OH))

Nitric acid, iron(3+) salt LC

(3:1)

LC 50 (Nematode (Caenorhabditis elegans), 24 h): 0.00032 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Hydrochloric acid No data available. Starch No data available. Potassium hydroxide No data available.

(K(OH))

Sodium hydroxide

(Na(OH))

No data available.

Nitric acid, iron(3+) salt

(3:1)

LOAEL (Salvelinus namaycush, 146 d): 27.65 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study NOAEL (Salvelinus namaycush, 146 d): 1.6 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study LOAEL (Salvelinus namaycush, 146 d): 6.25 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study NOAEL (Pimephales promelas, 12 Months): 0.24 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study LOAEL (Pimephales promelas, 12 Months): 1.5 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study

Aquatic Invertebrates

Product: No data available.

Components:

Hydrochloric acid No data available. Starch No data available. Potassium hydroxide No data available.

(K(OH))

Sodium hydroxide No data available.

(Na(OH))

(3:1)

Nitric acid, iron(3+) salt NOAEL (Daphnia magna, 21 d): 10 mg/l Read-across from supporting

substance (structural analogue or surrogate), Key study

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> NOAEL (Daphnia magna, 21 d): 8.1 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study LOAEL (Daphnia magna, 21 d): 13 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study EC 50 (Daphnia magna, 21 d): 18 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study

Toxicity to Aquatic Plants

Product: No data available.

Components:

Hydrochloric acid No data available. No data available. Starch Potassium hydroxide No data available.

(K(OH))

Sodium hydroxide No data available.

(Na(OH))

Nitric acid, iron(3+) salt No data available.

(3:1)

Toxicity to microorganisms

Product: No data available.

Components:

Hydrochloric acid No data available. Starch No data available. Potassium hydroxide No data available.

(K(OH))

Sodium hydroxide No data available.

(Na(OH))

Nitric acid, iron(3+) salt No data available.

(3:1)

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

Hydrochloric acid No data available. No data available. Starch Potassium hydroxide No data available.

(K(OH))

Sodium hydroxide

(Na(OH))

No data available.

Nitric acid, iron(3+) salt

No data available.

(3:1)



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BOD/COD Ratio

No data available. **Product:**

Components:

Hydrochloric acid No data available. Starch No data available. Potassium hydroxide No data available.

(K(OH))

Sodium hydroxide No data available.

(Na(OH))

Nitric acid, iron(3+) salt No data available.

(3:1)

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

Hydrochloric acid No data available. No data available. Starch Potassium hydroxide No data available.

(K(OH))

Sodium hydroxide

(Na(OH))

Nitric acid, iron(3+) salt No data available.

(3:1)

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: No data available.

No data available.

Components:

Hydrochloric acid No data available. Starch No data available. Potassium hydroxide No data available.

(K(OH))

Sodium hydroxide No data available.

(Na(OH))

Nitric acid, iron(3+) salt No data available.

(3:1)

Mobility in soil:

Product No data available.

Components:

Hydrochloric acid No data available. Starch No data available.

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Potassium hydroxide No data available.

(K(OH))

Sodium hydroxide (Na(OH)) No data available. Nitric acid, iron(3+) salt (3:1) No data available.

Results of PBT and vPvB assessment:

Product No data available.

Components:

Hydrochloric acid No data available. Starch No data available. Potassium hydroxide No data available.

(K(OH))

Sodium hydroxide (Na(OH)) No data available. Nitric acid, iron(3+) salt (3:1) No data available.

Other adverse effects:

Other hazards

Product: No data available.

Components:

Hydrochloric acid No data available. Starch No data available. Potassium hydroxide No data available.

(K(OH))

(K(OH))
Sodium hydroxide
No data available.

(Na(OH))

Nitric acid, iron(3+) salt No data available.

(3:1)

13. Disposal considerations

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

requirements.

Disposal methods: No specific disposal method required.

Contaminated Packaging: No data available.

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14. Transport information

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

Transport Hazard Class(es)

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

Special precautions for user: Not regulated.

IMDG

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

Transport Hazard Class(es)

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

Environmental Hazards

Marine Pollutant: Not regulated.

Special precautions for user: Not regulated.

IATA

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

Transport Hazard Class(es):

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

Environmental Hazards

Marine pollutant: Not regulated.

Special precautions for user: Not regulated.

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DD

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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

Hydrochloric acid
Potassium hydroxide (K(OH))
Sodium hydroxide (Na(OH))
Nitric acid, iron(3+) salt (3:1)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Not classified

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):

Chemical Identity

Hydrochloric acid Hydrochloric acid

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

Chemical Identity

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Hydrochloric acid Potassium hydroxide (K(OH)) Sodium hydroxide (Na(OH)) Nitric acid, iron(3+) salt (3:1)

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

Chemical Identity

Hydrochloric acid

US. Pennsylvania RTK - Hazardous Substances

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

US. Rhode Island RTK

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

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

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

Issue Date: 09/10/2021

Version #: 1.1

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Further Information: No data available.

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