



**Be Right™**

# SAFETY DATA SHEET

**Issue Date** 10-Aug-2018

**Revision Date**  
05-Nov-2021

**Version** 2

**Page** 1 / 15

## 1. IDENTIFICATION

**Product identifier**

**Product Name** Buffer Powder Pillows Citrate Type for Heavy Metals

**Other means of identification**

**Product Code(s)** 1420299

**Safety data sheet number** M00153

**UN/ID no** UN3077

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Buffer. Laboratory Use.

**Uses advised against** None.

**Restrictions on use** None.

**Details of the supplier of the safety data sheet**

**Manufacturer Address**

Hach Company, P.O.Box 389, Loveland, CO 80539, USA, +1(970) 669-3050

**Emergency telephone number**

+1(303) 623-5716 - 24 Hour Service

## 2. HAZARDS IDENTIFICATION

**Classification**

**Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Carcinogenicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Aquatic Acute Toxicity	Category 1
Chronic aquatic toxicity	Category 1

**Hazards not otherwise classified (HNOC)**

Not applicable

**Label elements**

**Signal word**

Danger

**Product Code(s)** 1420299

**Issue Date** 10-Aug-2018

**Version** 2

**Product Name** Buffer Powder Pillows Citrate Type for Heavy Metals

**Revision Date** 05-Nov-2021

**Page** 2 / 15



**Hazard statements**

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H350 - May cause cancer

H410 - Very toxic to aquatic life with long lasting effects

**Precautionary statements**

P270 - Do not eat, drink or smoke when using this product

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330 - Rinse mouth

P501 - Dispose of contents/ container to an approved waste disposal plant

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P362 - Take off contaminated clothing and wash before reuse

P280 - Wear protective gloves, protective clothing, eye protection, and face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical attention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P272 - Contaminated work clothing should not be allowed out of the workplace

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

P201 - Obtain special instructions before use

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P405 - Store locked up

P271 - Use only outdoors or in a well-ventilated area

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER or doctor if you feel unwell

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P273 - Avoid release to the environment

P391 - Collect spillage

**Other Hazards Known**

May be harmful in contact with skin

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance**

Not applicable

**Mixture**

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No	Percent Range	HMRIC #
Citric acid	77-92-9	70 - 80%	-
Hydrazine, sulfate (1:1)	10034-93-2	10 - 20%	-

**Product Code(s)** 1420299

**Issue Date** 10-Aug-2018

**Version** 2

**Product Name** Buffer Powder Pillows Citrate Type for Heavy Metals

**Revision Date** 05-Nov-2021

**Page** 3 / 15

## 4. FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
<b>Inhalation</b>	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.
<b>Skin contact</b>	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing.

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

**Symptoms** Itching. Rashes. Hives. Burning sensation.

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

**Note to physicians** May cause sensitization in susceptible persons. Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable Extinguishing Media</b>	Caution: Use of water spray when fighting fire may be inefficient.
<b>Specific hazards arising from the chemical</b>	Product is or contains a sensitizer. May cause sensitization by skin contact.
<b>Hazardous combustion products</b>	Nitrogen oxides. Carbon monoxide, Carbon dioxide. Sulfur oxides. Ammonia.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**U.S. Notice** Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.

### Personal precautions, protective equipment and emergency procedures

**Product Code(s)** 1420299

**Issue Date** 10-Aug-2018

**Version** 2

**Product Name** Buffer Powder Pillows Citrate Type for Heavy Metals

**Revision Date** 05-Nov-2021

**Page** 4 / 15

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

#### Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

**Flammability class** Not applicable

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

#### Appropriate engineering controls

**Engineering Controls** Showers  
Eyewash stations  
Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hand Protection** Wear suitable gloves. Impervious gloves. Barrier creams may help to protect the exposed areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN

**Product Code(s)** 1420299

**Issue Date** 10-Aug-2018

**Version** 2

**Product Name** Buffer Powder Pillows Citrate Type for Heavy Metals

**Revision Date** 05-Nov-2021

**Page** 5 / 15

374-1:2016.

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear safety glasses with side-shields.
<b>Skin and body protection</b>	Wear suitable protective clothing. Long sleeved clothing. Wash contaminated clothing before reuse.
<b>General Hygiene Considerations</b>	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.
<b>Environmental exposure controls</b>	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.
<b>Thermal hazards</b>	None under normal processing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid	<b>Color</b>	white
<b>Appearance</b>	powder crystalline	<b>Odor threshold</b>	No data available
<b>Odor</b>	Odorless		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Molecular weight</b>	No data available	
<b>pH</b>	2.4	1% @ 20°C
<b>Melting point/freezing point</b>	153 °C / 307.4 °F	
<b>Boiling point / boiling range</b>	300 °C / 572 °F	
<b>Evaporation rate</b>	Not applicable	
<b>Vapor pressure</b>	Not applicable	
<b>Relative vapor density</b>	No data available	
<b>Specific gravity (water = 1 / air = 1)</b>	1.74	
<b>Partition Coefficient (n-octanol/water)</b>	log K <sub>ow</sub> ~ -1.3	
<b>Soil Organic Carbon-Water Partition Coefficient</b>	log K <sub>oc</sub> ~ -0.77	
<b>Autoignition temperature</b>	No data available	
<b>Decomposition temperature</b>	No data available	
<b>Dynamic viscosity</b>	Not applicable	
<b>Kinematic viscosity</b>	Not applicable	

### Solubility(ies)

#### **Water solubility**

**Product Code(s)** 1420299

**Product Name** Buffer Powder Pillows Citrate Type for Heavy Metals

**Issue Date** 10-Aug-2018

**Revision Date** 05-Nov-2021

**Version** 2

**Page** 6 / 15

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

#### Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

#### Other information

##### Metal Corrosivity

**Steel Corrosion Rate**

5.84 mm/yr / 0.23 in/yr

**Aluminum Corrosion Rate**

0.13 mm/yr / 0.01 in/yr

##### Volatile Organic Compounds (VOC) Content

Not applicable

Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Citric acid	77-92-9	Not applicable	-
Hydrazine, sulfate (1:1)	10034-93-2	Not applicable	-

#### Explosive properties

**Upper explosion limit**

No data available

**Lower explosion limit**

No data available

#### Flammable properties

**Flash point**

Not applicable

#### Flammability Limit in Air

**Upper flammability limit:**

No data available

**Lower flammability limit:**

No data available

#### Oxidizing properties

No data available.

#### Bulk density

No data available

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not applicable.

#### Chemical stability

Stable under normal conditions.

#### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

#### Possibility of hazardous reactions

None under normal processing.

**Product Code(s)** 1420299

**Issue Date** 10-Aug-2018

**Version** 2

**Product Name** Buffer Powder Pillows Citrate Type for Heavy Metals

**Revision Date** 05-Nov-2021

**Page** 7 / 15

**Hazardous polymerization**

None under normal processing.

**Conditions to avoid**

None known based on information supplied.

**Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents.

**Hazardous decomposition products**

Nitrogen oxides. Carbon dioxide. Carbon monoxide. Sulfur oxides. Ammonia.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	Irritating to eyes. Causes serious eye irritation.
<b>Skin contact</b>	May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Causes skin irritation.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed.

**Symptoms** Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

**Acute toxicity**

Harmful if swallowed

**Product Acute Toxicity Data**

No data available.

**Ingredient Acute Toxicity Data**

Test data reported below.

**Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Citric acid (70 - 80%) CAS#: 77-92-9	Rat LD <sub>50</sub>	3000 mg/kg	None reported	None reported	IUCLID (The International Uniform Chemical Information Database)
Hydrazine, sulfate (1:1) (10 - 20%) CAS#: 10034-93-2	Rat LD <sub>50</sub>	60 mg/kg	None reported	None reported	HSDB (Hazardous Substances Data Bank)

**Dermal Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Hydrazine, sulfate (1:1) (10 - 20%)	Rabbit LD <sub>50</sub>	300 mg/kg	None reported	None reported	Vendor SDS

**Product Code(s)** 1420299

**Product Name** Buffer Powder Pillows Citrate Type for Heavy Metals

**Issue Date** 10-Aug-2018

**Revision Date** 05-Nov-2021

**Version** 2

**Page** 8 / 15

CAS#: 10034-93-2					
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#### Inhalation (Dust/Mist) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Hydrazine, sulfate (1:1) (10 - 20%) CAS#: 10034-93-2	Rat LC <sub>50</sub>	0.76 mg/L	4 hours	None reported	Vendor SDS

#### Unknown Acute Toxicity

0.01% of the mixture consists of ingredient(s) of unknown toxicity.

#### Acute Toxicity Estimations (ATE)

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	398.30 mg/kg
ATEmix (dermal)	2,204.30 mg/kg
ATEmix (inhalation-dust/mist)	5.58 mg/l
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

#### Skin corrosion/irritation

Classification based on data available for ingredients. Irritating to skin.

#### Product Skin Corrosion/Irritation Data

No data available.

#### Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Citric acid (70 - 80%) CAS#: 77-92-9	Standard Draize Test	Rabbit	500 mg	24 hours	Mild skin irritant	RTECS (Registry of Toxic Effects of Chemical Substances)

#### Serious eye damage/irritation

Classification based on data available for ingredients. Irritating to eyes.

#### Product Serious Eye Damage/Eye Irritation Data

No data available.

#### Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Citric acid (70 - 80%) CAS#: 77-92-9	Standard Draize Test	Rabbit	0.750 mg	24 hours	Eye irritant	RTECS (Registry of Toxic Effects of Chemical Substances)

#### Respiratory or skin sensitization

May cause sensitization by skin contact.



**Product Code(s)** 1420299

**Issue Date** 10-Aug-2018

**Version** 2

**Product Name** Buffer Powder Pillows Citrate Type for Heavy Metals

**Revision Date** 05-Nov-2021

**Page** 9 / 15

**Product Sensitization Data**

No data available.

**Ingredient Sensitization Data**

Test data reported below.

**Skin Sensitization Exposure Route**

Chemical name	Test method	Species	Results	Key literature references and sources for data
Hydrazine, sulfate (1:1) (10 - 20%) CAS#: 10034-93-2	Based on human experience	Human	Confirmed to be a skin sensitizer	GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)

**STOT - single exposure**

Based on available data, the classification criteria are not met.

**Product Specific Target Organ Toxicity Single Exposure Data**

No data available.

**Ingredient Specific Target Organ Toxicity Single Exposure Data**

No data available.

**STOT - repeated exposure**

Based on available data, the classification criteria are not met.

**Product Specific Target Organ Toxicity Repeat Dose Data**

No data available.

**Ingredient Specific Target Organ Toxicity Repeat Exposure Data**

Test data reported below.

**Oral Exposure Route**

**Inhalation (Dust/Mist) Exposure Route**

**Carcinogenicity**

Classification based on data available for ingredients. Contains a known or suspected carcinogen.

**Product Carcinogenicity Data**

No data available.

**Ingredient Carcinogenicity Data**

Test data reported below.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Citric acid	77-92-9	-	-	-	-
Hydrazine, sulfate (1:1)	10034-93-2	-	-	Reasonably Anticipated	X

**Legend**

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

**Product Code(s)** 1420299

**Issue Date** 10-Aug-2018

**Version** 2

**Product Name** Buffer Powder Pillows Citrate Type for Heavy Metals

**Revision Date** 05-Nov-2021

**Page** 10 / 15

OSHA (Occupational Safety and Health Administration of the US Department of Labor)	X - Present
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#### Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Hydrazine, sulfate (1:1) (10 - 20%) CAS#: 10034-93-2	Hamster	29702 mg/kg	2 years	Liver Tumors	RTECS (Registry of Toxic Effects of Chemical Substances)

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### **Product Germ Cell Mutagenicity** invitro Data

No data available.

#### **Ingredient Germ Cell Mutagenicity** invitro Data

No data available.

#### **Product Germ Cell Mutagenicity** invivo Data

No data available.

#### **Ingredient Germ Cell Mutagenicity** invivo Data

No data available.

#### Reproductive toxicity

Based on available data, the classification criteria are not met.

#### **Product Reproductive Toxicity Data**

No data available.

#### **Ingredient Reproductive Toxicity Data**

No data available.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT.

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

#### **Unknown aquatic toxicity**

0.01 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

#### Product Ecological Data

##### **Aquatic Acute Toxicity**

No data available.

##### **Aquatic Chronic Toxicity**

No data available.

#### Ingredient Ecological Data

##### **Aquatic Acute Toxicity**

**Product Code(s)** 1420299

**Issue Date** 10-Aug-2018

**Version** 2

**Product Name** Buffer Powder Pillows Citrate Type for Heavy Metals

**Revision Date** 05-Nov-2021

**Page** 11 / 15

Test data reported below.

#### Fish

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Hydrazine, sulfate (1:1) (10 - 20%) CAS#: 10034-93-2	96 hours	<i>Poecilia reticulata</i>	LC <sub>50</sub>	0.28 mg/L	EPA (United States Environmental Protection Agency)

#### Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Hydrazine, sulfate (1:1) (10 - 20%) CAS#: 10034-93-2	48 Hours	<i>Daphnia pulex</i>	EC <sub>50</sub>	0.16 mg/L	EPA (United States Environmental Protection Agency)

#### Algae

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Hydrazine, sulfate (1:1) (10 - 20%) CAS#: 10034-93-2	72 Hours	<i>Selenastrum capricornutum</i>	EC <sub>50</sub>	0.006 mg/L	EPA (United States Environmental Protection Agency)

#### Aquatic Chronic Toxicity

No data available.

#### Persistence and degradability

##### Product Biodegradability Data

No data available.

##### Bioaccumulation

MATERIAL DOES NOT BIOACCUMULATE

##### Product Bioaccumulation Data

No data available.

##### Partition Coefficient (n-octanol/water)

log K<sub>ow</sub> ~ -1.3

#### Mobility

##### Soil Organic Carbon-Water Partition Coefficient

log K<sub>oc</sub> ~ -0.77

##### Other adverse effects

No information available

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

##### Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Product Code(s)** 1420299

**Issue Date** 10-Aug-2018

**Version** 2

**Product Name** Buffer Powder Pillows Citrate Type for Heavy Metals

**Revision Date** 05-Nov-2021

**Page** 12 / 15

**Contaminated packaging** Do not reuse empty containers.

**Special instructions for disposal** Incinerate material at an E.P.A. approved hazardous waste facility. Work in an approved fume hood. Dilute to 3 to 5 times the volume with cold water. Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. Open cold water tap completely, slowly pour the material to the drain. Allow cold water to run for 5 minutes to completely flush the system.

## 14. TRANSPORT INFORMATION

### DOT

<b>UN/ID no</b>	UN3077
<b>Proper shipping name</b>	Environmentally hazardous substances, solid, n.o.s.
<b>DOT Technical Name</b>	Hydrazine, sulfate (1:1)
<b>Transport hazard class(es)</b>	9
<b>Packing Group</b>	III
<b>Marine pollutant</b>	This product contains a chemical which is listed as a marine pollutant according to DOT.
<b>Emergency Response Guide Number</b>	171

### TDG

<b>UN/ID no</b>	UN3077
<b>Proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s.
<b>TDG Technical Name</b>	Hydrazine, sulfate (1:1)
<b>Transport hazard class(es)</b>	9
<b>Packing Group</b>	III
<b>Description</b>	UN3077, Environmentally hazardous substance, solid, n.o.s. (Hydrazine, sulfate (1:1)), 9, III

### IATA

<b>UN number or ID number</b>	UN3077
<b>Proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s.
<b>IATA Technical Name</b>	Hydrazine, sulfate (1:1)
<b>Transport hazard class(es)</b>	9
<b>Packing group</b>	III
<b>ERG Code</b>	9L
<b>Special precautions for user</b>	A158, A179, A97

### IMDG

<b>UN number or ID number</b>	UN3077
<b>Proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s.
<b>IMDG Technical Name</b>	Hydrazine, sulfate (1:1)
<b>Transport hazard class(es)</b>	9
<b>Packing Group</b>	III
<b>EmS-No</b>	F-A, S-F
<b>Special precautions for user</b>	274, 335, 966, 967
<b>Marine pollutant</b>	This material meets the definition of a marine pollutant

**Note:** No special precautions necessary.

### **Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

**Product Code(s)** 1420299

**Issue Date** 10-Aug-2018

**Version** 2

**Product Name** Buffer Powder Pillows Citrate Type for Heavy Metals

**Revision Date** 05-Nov-2021

**Page** 13 / 15

## 15. REGULATORY INFORMATION

### National Inventories

**TSCA** Complies  
**DSL/NDSL** Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

### International Inventories

**EINECS/ELINCS** Complies  
**ENCS** Complies  
**IECSC** Complies  
**KECL - Existing substances** Complies  
**PICCS** Complies  
**TCSI** Complies  
**AICS** Complies  
**NZIoC** Complies

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**TCSI** - Taiwan Chemical Substances Inventory  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Hydrazine, sulfate (1:1) (CAS #: 10034-93-2)	0.1

#### SARA 311/312 Hazard Categories

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals

**Product Code(s)** 1420299

**Issue Date** 10-Aug-2018

**Version** 2

**Product Name** Buffer Powder Pillows Citrate Type for Heavy Metals

**Revision Date** 05-Nov-2021

**Page** 14 / 15

Chemical name	California Proposition 65
Hydrazine, sulfate (1:1) (CAS #: 10034-93-2)	Carcinogen



**WARNING:** This product can expose you to chemicals including Hydrazine, sulfate (1:1), which is known to the State of California to cause cancer.

For more information, go to <http://www.P65Warnings.ca.gov>

#### **U.S. State Right-to-Know Regulations**

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Hydrazine, sulfate (1:1) 10034-93-2	X	X	X

#### **U.S. EPA Label Information**

Chemical name	FIFRA	FDA
Citric acid	180.0950	21 CFR 184.1033

### **16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

#### **Special Comments**

None

#### **Additional information**

#### **Global Automotive Declarable Substance List (GADSL)**

Not applicable

#### **NFPA and HMIS Classifications**

NFPA	Health hazards - 2	Flammability - 0	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - 2 - *	Flammability - 0	Physical hazards - 0	Personal protection - X - I

#### **Key or legend to abbreviations and acronyms used in the safety data sheet**

NIOSH IDLH

*Immediately Dangerous to Life or Health*

ACGIH

ACGIH (American Conference of Governmental Industrial Hygienists)

NDF

*no data*

#### **Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowable Concentration	Ceiling	Ceiling Limit Value
X	Listed	Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these

**Product Code(s)** 1420299

**Issue Date** 10-Aug-2018

**Version** 2

**Product Name** Buffer Powder Pillows Citrate Type for Heavy Metals

**Revision Date** 05-Nov-2021

**Page** 15 / 15

"liberated" exposure limits in their state regulations.

SKN\*  
RSP+  
C  
M

Skin designation  
Respiratory sensitization  
Carcinogen  
mutagen

SKN+  
\*\*  
R

Skin sensitization  
Hazard Designation  
Reproductive toxicant

**Prepared By** Hach Product Compliance Department

**Issue Date** 10-Aug-2018

**Revision Date** 05-Nov-2021

**Revision Note** SDS sections updated  
2

**Disclaimer**

**USER RESPONSIBILITY:** Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

**THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.**

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**End of Safety Data Sheet**