

## SAFETY DATA SHEET

**Issue Date** 10-May-2016 **Revision Date** 21-Dec-2017 **Version** 4.1 **Page** 1 / 14

## 1. IDENTIFICATION

Product identifier

Product Name ECR Reagent Powder Pillows

Other means of identification

Product Code(s) 2380268

Safety data sheet number M00166

Recommended use of the chemical and restrictions on use

Recommended Use Indicator for aluminum.

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 +1(515)232-2533 - 8am - 4pm CST

## 2. HAZARDS IDENTIFICATION

## Classification

#### Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

## Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

#### **Hazard statements**

The product contains no substances which at their given concentration, are considered to be hazardous to health

## Other Information

May be harmful if swallowed Causes mild skin irritation Harmful to aquatic life

EN / AGHS Page 1/14

Product Name ECR Reagent Powder Pillows

Revision Date 21-Dec-2017

Page 2/14

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance** 

Not applicable

**Mixture** 

Chemical Family Mixture.

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No.	Percent Range	HMRIC #
Ammonium sulfate	7783-20-2	90 - 100%	-
Butanedioic acid, mercapto-	70-49-5	3 - 7%	-
2-Furancarboxylic acid	88-14-2	1 - 5%	-
Benzoic acid,	2588-24-1	<0.1%	-
3,3-(3H-2,1-benzoxathiol-3-ylidene)bis[6-hydroxy-5-methyl-,dioxide			

Chemical name CAS No.	Weight-%
Ammonium sulfate 7783-20-2	90.87
7783-20-2	
Butanedioic acid, mercapto- 70-49-5	5.29
70-49-5	
2-Furancarboxylic acid 88-14-2	3.79
88-14-2	
Benzoic acid, 2588-24-1	0.05

<sup>3,3-(3</sup>H-2,1-benzoxathiol-3-ylidene)bis[6-hydroxy-5-methyl

## 4. FIRST AID MEASURES

## **Description of first aid measures**

General advice No hazards which require special first aid measures. Use first aid treatment according to

the nature of the injury.

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact** Wash skin with soap and water.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

**Symptoms** See Section 11 for additional Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

surrounding environment.

**Unsuitable Extinguishing Media** Caution: Use of water spray when fighting fire may be inefficient.

EN / AGHS Page 2/14

<sup>-,</sup>dioxide 2588-24-1

Product Name ECR Reagent Powder Pillows

Revision Date 21-Dec-2017

Page 3/14

Specific hazards arising from the

chemical

No information available.

**Hazardous combustion products** 

Ammonia. Nitrogen oxides. Sulfur oxides.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear.

## 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

**Personal precautions** Ensure adequate ventilation.

Environmental precautions

**Environmental precautions** See Section 12 for additional ecological information.

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** Pick up and transfer to properly labeled containers.

**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.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

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

EN / AGHS Page 3/14

Product Name ECR Reagent Powder Pillows

orange

Revision Date 21-Dec-2017

Page 4/14

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hand Protection** Wear suitable gloves.

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

**Skin and body protection**No special protective equipment required.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls 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.

Thermal hazards None under normal processing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Color

## Information on basic physical and chemical properties

Physical state

Solid

**Appearance** powder

Odor Odorless Odor threshold No data available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Molecular weight No data available

pH 2.78 5% Solution

Melting point/freezing point 133 °C / 271 °F

Boiling point / boiling range No data available

**Evaporation rate** Not applicable

Vapor pressure Not applicable

Vapor density (air = 1) Not applicable

Specific gravity (water = 1 / air = 1) 1.734

Partition Coefficient (n-octanol/water) log Kow ~ 0.01

Soil Organic Carbon-Water Partition

Coefficient

 $log K_{oc} \sim 0.07$ 

Autoignition temperature No data available

**Decomposition temperature**No data available

Dynamic viscosity Not applicable

Kinematic viscosity Not applicable

Solubility(ies)

EN / AGHS Page 4/14

Product Name ECR Reagent Powder Pillows

Revision Date 21-Dec-2017

Page 5/14

## Water solubility

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 Rate1.63 mm/yr / 0.06 in/yrAluminum Corrosion Rate0.56 mm/yr / 0.02 in/yr

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

Not applicable

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Ammonium sulfate	7783-20-2	No data available	-
Butanedioic acid, mercapto-	70-49-5	No data available	-
2-Furancarboxylic acid	88-14-2	No data available	-
Benzoic acid,	2588-24-1	No data available	-
3,3-(3H-2,1-benzoxathiol-3-ylidene)bis			
[6-hydroxy-5-methyl-,dioxide			

## **Explosive properties**

Upper explosion limitNo data availableLower explosion limitNo data available

## Flammable properties

Flash point Not applicable

Method No information available

Flammability Limit in Air

Upper flammability limit:No data availableLower flammability limit:No data available

Oxidizing properties No data available.

Bulk density

No data available

Particle Size No information available

Particle Size Distribution No information available

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not applicable.

## **Chemical stability**

EN / AGHS Page 5/14

Product Name ECR Reagent Powder Pillows

Revision Date 21-Dec-2017

Page 6/14

Stability Stable under normal conditions.

**Explosion data** 

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None.

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

**Hazardous polymerization** 

None under normal processing.

Conditions to avoid

Conditions to avoid None known based on information supplied.

Incompatible materials

**Incompatible materials** Strong oxidizing agents, strong acids, and strong bases.

**Hazardous Decomposition Products** 

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

## 11. TOXICOLOGICAL INFORMATION

## Information on Likely Routes of Exposure

**Product Information** 

**Inhalation** No known effect based on information supplied.

**Eye contact** No known effect based on information supplied.

**Skin contact** No known effect based on information supplied.

**Ingestion** No known effect based on information supplied.

**Symptoms** No information available.

Aggravated Medical Conditions Skin disorders. Toxicologically synergistic None known.

products

**Toxicokinetics, metabolism and** No information available.

distribution

**Product Acute Toxicity Data** 

Oral Exposure Route

Dermal Exposure Route

Inhalation (Dust/Mist) Exposure Route

Inhalation (Vapor) Exposure Route

Inhalation (Gas) Exposure Route

No data available

No data available

No data available

No data available

**Unknown Acute Toxicity** 

0% 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)	2,590.00 mg/kg			
ATEmix (dermal)	No information available			
ATEmix (inhalation-dust/mist)	No information available			
ATEmix (inhalation-vapor)	No information available			

EN / AGHS Page 6/14

Product Name ECR Reagent Powder Pillows

Revision Date 21-Dec-2017

Page 7/14

ATEmix (inhalation-gas) No information available

## Ingredient Acute Toxicity Data

Oral Exposure Route If available, see data below

oral Exposure Notice in available, see data below						
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and	
	type	dose	time		sources for data	
Ammonium sulfate (90 - 100%) CAS#: 7783-20-2	Rat LD <sub>50</sub>	2840 mg/kg	None reported	None reported	GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)	
Butanedioic acid, mercapto- (3 - 7%) CAS#: 70-49-5	Rat LD <sub>50</sub>	800 mg/kg	None reported	None reported	Vendor SDS	
2-Furancarboxylic acid (1 - 5%) CAS#: 88-14-2	Mouse	100 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)	
Benzoic acid, 3,3-(3H-2,1-benzoxat hiol-3-ylidene)bis[6-h ydroxy-5-methyl-,diox ide (<0.1%) CAS#: 2588-24-1	Rat LD₅o	> 2000 mg/kg	None reported	None reported	Vendor SDS	

Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route If available, see data below If available, see data below If available, see data below If available, see data below

## Product Specific Target Organ Toxicity Single Exposure Data

Oral Exposure Route

Dermal Exposure Route

Inhalation (Dust/Mist) Exposure Route

Inhalation (Vapor) Exposure Route

Inhalation (Gas) Exposure Route

No data available

No data available

No data available

No data available

## Ingredient Specific Target Organ Toxicity Single Exposure Data

Oral Exposure Route If available, see data below

	•				
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ammonium sulfate (90 - 100%)	Man TD∟₀	1500 mg/kg	None reported	Gastrointestinal Gas	RTECS (Registry of Toxic Effects of Chemical
CAS#: 7783-20-2	I DLo		теропец	Gas	Substances)
2-Furancarboxylic acid (1 - 5%) CAS#: 88-14-2	None reported	None reported	None reported	Lungs, Thorax, or Respiration	No information available
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Ammonium sulfate (90 - 100%)	Domestic mammal -	3500 mg/kg	None reported	Lungs, Thorax, or Respiration	RTECS (Registry of Toxic Effects of Chemical
CAS#: 7783-20-2	Not specified		•	Respiratory stimulation	Substances)

Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route If available, see data below

## **Aspiration toxicity**

EN / AGHS Page 7/14

**Product Name** ECR Reagent Powder Pillows **Revision Date** 21-Dec-2017

Page 8/14

If available, see data below

Kinematic viscosity Not applicable

## **Product Skin Corrosion/Irritation Data**

No data available.

#### Ingredient Skin Corrosion/Irritation Data

If available, see data below

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Ammonium sulfate (90 - 100%) CAS#: 7783-20-2	Standard Draize Test	Rabbit	800 mg	20 hours	Not corrosive or irritating to skin	ECHA (The European Chemicals Agency)

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

No data available.

## **Ingredient Eye Damage/Eye Irritation Data**

If available, see data below

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Ammonium sulfate (90 - 100%) CAS#: 7783-20-2	Standard Draize Test	Rabbit	0.050 mL	None reported	Not corrosive or irritating to eyes	ECHA (The European Chemicals Agency)

#### **Sensitization Information**

**Product Sensitization Data** 

Skin Sensitization Exposure Route

Respiratory Sensitization Exposure Route

No data available.

No data available.

**Ingredient Sensitization Data** 

Skin Sensitization Exposure RouteIf available, see data below.Respiratory Sensitization Exposure RouteIf available, see data below.

## **Chronic Toxicity Information**

Product Specific Target Organ Toxicity Repeat Dose Data

Oral Exposure Route

Dermal Exposure Route

Inhalation (Dust/Mist) Exposure Route

Inhalation (Vapor) Exposure Route

Inhalation (Gas) Exposure Route

No data available.

No data available.

No data available.

No data available.

## Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Oral Exposure Route
Dermal Exposure Route
If available, see data below
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
Inhalation (Gas) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below
If available, see data below

**Product Carcinogenicity Data** 

Oral Exposure RouteNo data availableDermal Exposure RouteNo data availableInhalation (Dust/Mist) Exposure RouteNo data availableInhalation (Vapor) Exposure RouteNo data availableInhalation (Gas) Exposure RouteNo data available

#### **Ingredient Carcinogenicity Data**

EN / AGHS Page 8/14

Product Name ECR Reagent Powder Pillows

Revision Date 21-Dec-2017

If available, see data below

If available, see data below

If available, see data below If available, see data below

If available, see data below

Page 9/14

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Ammonium sulfate	7783-20-2	-	-	-	-
Butanedioic acid,	70-49-5	-	-	-	-
mercapto-					
2-Furancarboxylic acid	88-14-2	-	-	-	-
Benzoic acid,	2588-24-1	-	-	-	-
3,3-(3H-2,1-benzoxathiol-3					
-ylidene)bis[6-hydroxy-5-m					
ethyl-,dioxide					

## **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)	Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of	Does not apply
Labor)	

Oral Exposure Route
Dermal Exposure Route
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
Inhalation (Gas) Exposure Route

## Product Germ Cell Mutagenicity invitro Data

No data available.

## Ingredient Germ Cell Mutagenicity invitro Data

If available, see data below

Chemical name	Test	Cell Strain	Reported	Exposure	Results	Key literature
			dose	time		references and
						sources for data
2-Furancarboxylic	Mutation in	Salmonella	0.01 mg/plate	None	Positive test result for	RTECS (Registry
acid	microorganisms	typhimurium		reported	mutagenicity	of Toxic Effects of
(1 - 5%)	-					Chemical
CAS#: 88-14-2						Substances)

Product Germ Cell Mutagenicity invivo Data

Oral Exposure Route

Dermal Exposure Route

Inhalation (Dust/Mist) Exposure Route

Inhalation (Vapor) Exposure Route

Inhalation (Gas) Exposure Route

No data available

No data available

No data available

No data available

Ingredient Germ Cell Mutagenicity invivo Data

Oral Exposure Route

Dermal Exposure Route

If available, see data below
Inhalation (Dust/Mist) Exposure Route
If available, see data below
Inhalation (Vapor) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below
If available, see data below

**Product Reproductive Toxicity Data** 

Oral Exposure RouteNo data availableDermal Exposure RouteNo data availableInhalation (Dust/Mist) Exposure RouteNo data availableInhalation (Vapor) Exposure RouteNo data availableInhalation (Gas) Exposure RouteNo data available

**Ingredient Reproductive Toxicity Data** 

Oral Exposure Route If available, see data below

EN / AGHS Page 9/14

**Product Name** ECR Reagent Powder Pillows **Revision Date** 21-Dec-2017

Page 10 / 14

Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route If available, see data below If available, see data below If available, see data below

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Product Ecological Data** 

**Aquatic toxicity** 

FishNo data availableCrustaceaNo data availableAlgaeNo data available

**Ingredient Ecological Data** 

**Aquatic toxicity** 

Fish If available, see ingredient data below

	n aranasis, see nigitation and seion				
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Ammonium sulfate (90 - 100%) CAS#: 7783-20-2	96 hours	Oncorhynchus mykiss	LC50	36.7 mg/L	GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)
Butanedioic acid, mercapto- (3 - 7%) CAS#: 70-49-5	96 hours	None reported	LC50	5330 mg/L	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™
2-Furancarboxylic acid (1 - 5%) CAS#: 88-14-2	96 hours	None reported	LC50	7336 mg/L	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

Crustacea If available, see ingredient data below

0.00000		ii aranabis, see ingleatent aata belet			
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Ammonium sulfate (90 - 100%) CAS#: 7783-20-2	48 Hours	None reported	LC <sub>50</sub>	14 mg/L	GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)
Butanedioic acid, mercapto- (3 - 7%) CAS#: 70-49-5	48 Hours	None reported	LC50	94 mg/L	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™
2-Furancarboxylic acid (1 - 5%) CAS#: 88-14-2	48 Hours	None reported	LC50	3797 mg/L	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

Algae If available, see ingredient data below

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Butanedioic acid, mercapto- (3 - 7%) CAS#: 70-49-5	96 hours	None reported	EC <sub>50</sub>	51 mg/L	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™
2-Furancarboxylic acid (1 - 5%)	96 hours	None reported	EC <sub>50</sub>	1928 mg/L	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

EN / AGHS Page 10/14

Product Name ECR Reagent Powder Pillows Revision Date 21-Dec-2017

Page 11 / 14

CAS#: 88-14-2		
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#### Other Information

## Persistence and degradability

## **Product Biodegradability Data**

If available, see ingredient data below.

# Ingredient Biodegradability Data Test data reported below

Chemical name	Test method	Biodegradation	Exposure time	Results
Butanedioic acid,	OECD Test No. 303: Simulation Test - Aerobic Sewage	None reported	None	Readily
mercapto- (3 - 7%) CAS#: 70-49-5	Treatment A: Activated Sludge Units; B: Biofilms		reported	biodegradable
2-Furancarboxylic acid (1 - 5%) CAS#: 88-14-2	None reported	BOD/COD = 1.032	None reported	Readily biodegradable

 $log K_{ow} \sim 0.01$ 

#### Bioaccumulation

## **Product Bioaccumulation Data**

No data available.

Partition Coefficient (n-octanol/water)

**Ingredient Bioaccumulation Data** 

**Mobility** 

**Soil Organic Carbon-Water Partition Coefficient** log Koc ~ 0.07

Water solubility

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

## Other adverse effects

No information available.

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Endocrine disrupting potential
2-Furancarboxylic acid (1 - 5%) CAS#: 88-14-2	Group III Chemical	-	-

## 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.

Contaminated packaging Do not reuse empty containers.

EN / AGHS Page 11/14

Product Name ECR Reagent Powder Pillows

Revision Date 21-Dec-2017

Page 12 / 14

#### Special instructions for disposal

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. If permitted by regulation. Open cold water tap completely, slowly pour the reacted material to the drain. Allow cold water to run for 5 minutes to completely flush the system. Check with local municipal and state authorities and waste contractors for pertinent local information regarding the proper disposal of chemicals.

## 14. TRANSPORT INFORMATION

U.S. DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG Not regulated

**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.

## **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** Does not comply **IECSC** Complies **KECL** Does not comply **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**

EN / AGHS Page 12 / 14

Product Name ECR Reagent Powder Pillows

Revision Date 21-Dec-2017

Page 13 / 14

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 %
Ammonium sulfate (CAS #: 7783-20-2)	1.0

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	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 does not contain any Proposition 65 chemicals

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ammonium sulfate	-	X	X
7783-20-2			

## U.S. EPA Label Information

Chemical name	FIFRA	FDA
Ammonium sulfate	180.0910	21 CFR 184.1143

## 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**

EN / AGHS Page 13/14

**Product Name** ECR Reagent Powder Pillows **Revision Date** 21-Dec-2017

Page 14 / 14

	NFPA	Health hazards - 1	Flammability - 0	Instability - 0	Physical and Chemical Properties -
	HMIS	Health hazards - 1	Flammability - 0	Physical Hazards - 0	Personal protection - X
-					- See section 8 for more
					information

#### 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 "liberated" exposure limits in their state

regulations.

SKN\* Skin designation SKN+ Skin sensitization
RSP+ Respiratory sensitization \*\* Hazard Designation
C Carcinogen R Reproductive toxicant

M mutagen

Prepared By Hach Product Compliance Department

Issue Date 10-May-2016

Revision Date 21-Dec-2017

Revision Note None

## **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** 

EN / AGHS Page 14/14