

# SAFETY DATA SHEET

Issue Date 16-Aug-2018 Revision Date 17-Aug-2018 Version 1.2 Page 1 / 13

# 1. IDENTIFICATION

Product identifier

Product Name Desiccant, Refill, Yellow

Other means of identification

Product Code(s) 8755500

Safety data sheet number M02587

Recommended use of the chemical and restrictions on use

Recommended Use Desiccant.
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 Hazards Known

Not applicable

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substance**

Not applicable

# Mixture

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Chemical name	CAS No.	Percent Range	HMRIC #
Silica, amorphous, precipitated and gel	112926-00-8	90 - 100%	-
Phenolphthalein	77-09-8	<0.1%	-

#### 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

# 5. FIRE-FIGHTING MEASURES

surrounding environment.

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

Specific hazards arising from the

chemical

No information available.

Hazardous combustion products Carbon monoxide, Carbon dioxide.

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.

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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**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Silica, amorphous, precipitated and gel	NDF	(vacated) TWA: 6 mg/m <sup>3</sup>	NDF
CAS#: 112926-00-8		TWA: 20 mppcf	
		:	

Appropriate engineering controls

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.

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Thermal hazards None under normal processing.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state

Odor

Solid

**Appearance** 

granules

Odorless

Color vellow

Odor threshold No data available

Values Remarks • Method **Property** 

No data available Molecular weight

pН

1713 °C / 3115 °F Melting point/freezing point

Boiling point / boiling range ~ 2230 °C / 4046 °F Estimation based on theoretical

calculation

**Evaporation rate** Not applicable

Not applicable Vapor pressure

Vapor density (air = 1) Not applicable

Specific gravity (water = 1 / air = 1) No data available

Partition Coefficient (n-octanol/water) log Kow ~ 0

**Soil Organic Carbon-Water Partition** 

Coefficient

log Koc ~ 0

Not applicable

No data available **Autoignition temperature** 

**Decomposition temperature** No data available

**Dynamic viscosity** Not applicable

Solubility(ies)

Kinematic viscosity

#### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature_
No information available	No data available	No information available

#### Solubility in other solvents

Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature_
None reported	No information available	No data available	No information available

# **Other Information**

#### **Metal Corrosivity**

**Steel Corrosion Rate** Not applicable Not applicable **Aluminum Corrosion Rate** 

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

Not applicable

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Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Silica, amorphous, precipitated and gel	112926-00-8	No data available	-
Phenolphthalein	77-09-8	No data available	-

**Explosive properties** 

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point  $\sim 23~^{\circ}\text{C}~/~73~^{\circ}\text{F}$  Method OC (open cup)

Flammability Limit in Air

Upper flammability limitNo data availableLower flammability limitNo 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

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** 

Heating to decomposition releases toxic fumes of carbon monoxide and carbon dioxide.

# 11. TOXICOLOGICAL INFORMATION

# Information on Likely Routes of Exposure

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#### **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** None known. **Toxicologically synergistic** None known.

products

Toxicokinetics, metabolism and See ingredients information below.

distribution

	Chemical name	Toxicokinetics, metabolism and distribution
ſ	Phenolphthalein	Absorbed and eliminated by kidney. Excreted in bile, urine and milk
١	(<0.1%)	
١	CAS#: 77-09-8	

**Product Acute 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

#### **Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

# **Acute Toxicity Estimations (ATE)**

ATEmix (oral)	No information available	
ATEmix (dermal)	No information available	
ATEmix (inhalation-dust/mist)	No information available	
ATEmix (inhalation-vapor)	No information available	
ATEmix (inhalation-gas)	No information available	

# **Ingredient Acute Toxicity 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
Silica, amorphous, precipitated and gel (90 - 100%) CAS#: 112926-00-8	Rat LD <sub>50</sub>	> 31500 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)
Phenolphthalein (<0.1%) CAS#: 77-09-8	Rat LD <sub>50</sub>	> 1000 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)

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

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

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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
Dermal Exposure Route
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
Inhalation (Gas) Exposure Route
If available, see data below
If available, see data below

**Aspiration toxicity** 

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

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

No data available.

Ingredient Eye Damage/Eye Irritation Data

No data available

**Sensitization Information** 

**Product Sensitization Data** 

Skin Sensitization Exposure RouteNo data available.Respiratory Sensitization Exposure RouteNo data available.

Ingredient Sensitization Data

Skin Sensitization Exposure Route If available, see data below. Respiratory Sensitization Exposure Route If 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

**Product Carcinogenicity 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

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**Ingredient Carcinogenicity Data** 

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Silica, amorphous, precipitated and gel	112926-00-8	•	Group 3	•	•
Phenolphthalein	77-09-8	-	Group 2B	Reasonably Anticipated	Χ

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Group 3 - Not classifiable as a human
	carcinogen
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
If available, see data below
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 Germ Cell Mutagenicity invitro Data

No data available.

#### Ingredient Germ Cell Mutagenicity invitro Data

No data available

Product Germ Cell Mutagenicity invivo 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 Germ Cell Mutagenicity invivo Data

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

#### **Product Reproductive 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

# Ingredient Reproductive Toxicity 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

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity** Not considered to be harmful to aquatic life

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Product Ecological Data

**Aquatic toxicity** 

**Fish** No data available Crustacea No data available No data available Algae

**Ingredient Ecological Data** 

**Aquatic toxicity** 

Fish If available, see ingredient data below Crustacea If available, see ingredient data below No data available Algae

**Other Information** 

Persistence and degradability

**Product Biodegradability Data** 

No data available.

**Ingredient Biodegradability Data** 

Bioaccumulation

**Product Bioaccumulation Data** 

No data available.

Partition Coefficient (n-octanol/water) log Kow ~ 0

**Ingredient Bioaccumulation Data** 

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient log Koc ~ 0

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
No information available	No data available	No information available

# Other adverse effects

Contains a substance with an endocrine-disrupting potential.

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Endocrine disrupting potential
Phenolphthalein (<0.1%)	Group III Chemical	-	-
CAS#: 77-09-8			

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

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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.

**US EPA Waste Number** D001

Special instructions for disposal

Dilute to 3 to 5 times the volume with cold water. 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

U.S. DOT Not regulated

Not regulated TDG

Not regulated IATA

Not regulated IMDG

#### **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** Does not comply **ENCS** Complies Complies **IECSC KECL** Complies Complies **PICCS** TCSI Complies **AICS** Complies Does not comply **NZIoC** 

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**

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# **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any 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 %	
Phenolphthalein (CAS #: 77-09-8)	0.1	

#### SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	Yes
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 contains the following Proposition 65 chemicals

Chemical name		California Proposition 65	
	Phenolphthalein (CAS #: 77-09-8)	Carcinogen	

**WARNING:** This product can expose you to chemicals including Phenolphthalein, which is known to the State of California to cause cancer.

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

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Silica, amorphous, precipitated and gel 112926-00-8	Х	X	Х
Phenolphthalein 77-09-8	Х	-	-

# U.S. EPA Label Information

Chemical name	FIFRA	FDA
Silica, amorphous, precipitated and gel	180.0950	-

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# 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**

NI	PA	Health hazards - 0	Flammability - 4	Instability - 0	Physical and Chemical
					Properties -
H	ЛIS	Health hazards - 0	Flammability - 3	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
 16-Aug-2018

 Revision Date
 17-Aug-2018

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** 

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