

# SAFETY DATA SHEET

Issue Date 26-Feb-2021

Revision Date 26-Feb-2021 Version 3.5

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# **1. IDENTIFICATION**

<u>Product identifier</u> Product Name	ManVer <sup>®</sup> 2 Hardness Indicator
Other means of identification	

Product Code(s) 92899

Safety data sheet number

#### Recommended use of the chemical and restrictions on use Recommended Use Laboratory reagent. Hardness determination.

Recommended UseLaboratory reagent. HardUses advised againstConsumer use.Restrictions on useFor Laboratory Use Only.

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

M00004

# 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)

Skin sensitization	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

Signal word Warning

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#### **Hazard statements**

H317 - May cause an allergic skin reaction

H351 - Suspected of causing cancer

H373 - May cause damage to organs through prolonged or repeated exposure

#### **Precautionary statements**

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

- P280 Wear protective gloves, protective clothing, eye protection, and face protection
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
- P363 Wash contaminated clothing before reuse
- P501 Dispose of contents/ container to an approved waste disposal plant
- P201 Obtain special instructions before use
- P308 + P313 IF exposed or concerned: Get medical advice/attention

P405 - Store locked up

- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P314 Get medical advice/attention if you feel unwell

#### Other Hazards Known

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

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Substance

Not applicable

**Mixture** 

#### **Chemical Family Chemical nature**

Mixture. Inorganic Compound.

#### Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No	Percent Range	HMRIC #
Hydroxylamine, hydrochloride	5470-11-1	<10%	-
Silica, amorphous	7631-86-9	1 - 5%	-

#### **4. FIRST AID MEASURES**

#### **Description of first aid measures**

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Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Inhalation	Remove to fresh air.
General advice	IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

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Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.			
Ingestion	Clean mouth with water and drink afterwards plenty of water.			
Most important symptoms and ef	fects, both acute and delayed			
Symptoms	Itching. Rashes. Hives.			
Indication of any immediate med	ical attention and special treatment needed			
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.			
	5. FIRE-FIGHTING MEASURES			

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	Caution: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
Hazardous combustion products	Hydrogen chloride. Sodium monoxide. Nitrogen oxides.
Special protective equipment for fire-fighters	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 ed	quipment and emergency procedures
Personal precautions	Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.
Other Information	Refer to protective measures listed in Sections 7 and 8.
Environmental precautions	
Environmental precautions	See Section 12 for additional ecological information.
Methods and material for containm	ent 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.

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**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 handlingIn case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or<br/>smoke when using this product. Take off contaminated clothing and wash before reuse.<br/>Avoid contact with skin, eyes or clothing. Handle in accordance with good industrial hygiene<br/>and safety practice. Ensure adequate ventilation.

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

Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.<br/>Keep out of the reach of children.

Flammability class Not applicable

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Silica, amorphous	NDF	TWA: 50 μg/m³	IDLH: 3000 mg/m <sup>3</sup>
CAS#: 7631-86-9		(vacated) TWA: 6 mg/m <sup>3</sup>	TWA: 6 mg/m <sup>3</sup>
		TWA: 20 mppcf	
		:	

Appropriate engineering controls Engineering Controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch 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. Wear breathing apparatus if exposed to vapors/dusts/aerosols.
Hand Protection	Wear suitable gloves. 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 374-1:2016.
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear suitable protective clothing.
General Hygiene Considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.
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

#### Information on basic physical and chemical properties

Physical state Appearance Odor	powder Odorless	Solid		Color Odor threshold	red No data ava	ailable
Property_			<u>Values</u>			Remarks • Method
Molecular weight	t		No data availal	ble		
рН			3.3			5% Solution
Melting point/free	ezing point		151 °C / 30	3.8 °F		
Boiling point / bo	oiling range		No data availal	ble		
Evaporation rate			Not applicable			
Vapor pressure			Not applicable			
Relative vapor de	ensity		No data availa	ble		
Specific gravity (	water = 1 / air = 1)		2.12			
Partition Coeffici	ent (n-octanol/wat	er)	log K <sub>ow</sub> ~ -0.2			
Soil Organic Carl	bon-Water Partitio	n	log K <sub>oc</sub> ~ 0.1			
Autoignition tem	perature		No data availal	ble		
Decomposition te	emperature		No data availal	ble		
Dynamic viscosi	ty		Not applicable			
Kinematic viscos	sity		Not applicable			

### Solubility(ies)

#### 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	<u>Solubility</u>	Solubility Temperature
None reported	No information available	No data available	No information available

#### Other information

#### **Metal Corrosivity**

#### Steel Corrosion Rate Aluminum Corrosion Rate

2.59 mm/yr / 0.1 in/yr 1.14 mm/yr / 0.04 in/yr

Volatile Organic Compounds (VOC) Content Not applicable

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Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Hydroxylamine, hydrochloride	5470-11-1	No data available	-
Silica, amorphous	7631-86-9	No data available	-

#### **Explosive properties**

No data available No data available
Not applicable
No data available
No data available
No data available.
No data available

# **10. STABILITY AND REACTIVITY**

Reactivity

Not applicable.

#### <u>Chemical stability</u> Stable under normal conditions.

#### Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Possibility of hazardous reactions

None under normal processing.

#### Hazardous polymerization

None under normal processing.

#### Conditions to avoid

None known based on information supplied.

#### Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

#### Hazardous decomposition products

Hydrogen chloride. Sodium monoxide. Nitrogen oxides.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

#### **Product Information**

Inhalation

No known effect based on information supplied.

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Eye contact	No known effect based on information supplied.
Skin contact	May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion	No known effect based on information supplied.
Symptoms	Itching. Rashes. Hives.

#### Acute toxicity

Based on available data, the classification criteria are not met

#### **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
Hydroxylamine, hydrochloride (<10%) CAS#: 5470-11-1	Rat LD₅₀	141 mg/kg	None reported	None reported	Vendor SDS

dpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
None ported	None reported	None reported	None reported	No information available
t	<b>ype</b> Ione	ype dose Ione None	ype dose time None None None	vpe dose time   None None None reported

### 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)	2,109.00 mg/kg
ATEmix (dermal)	12,373.4533183352 mg/kg
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

#### Skin corrosion/irritation

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

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

No data available.

#### Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical name Test r	method Species	Reported dose	Exposure time	Results	Key literature references and sources for data
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Silica, amorphous (1 - 5%)	Standard Draize Test	Rabbit	500 mg	24 hours	Not corrosive or irritating to skin	IUCLID (The International Uniform
CAS#: 7631-86-9						Chemical Information Database)

#### Serious eye damage/irritation

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

# 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
Silica, amorphous (1 - 5%) CAS#: 7631-86-9	Standard Draize Test	Rabbit	25 mg	24 hours	Mild eye irritant	IUCLID (The International Uniform Chemical Information Database)

#### Respiratory or skin sensitization

May cause sensitization by skin contact.

# 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
Silica, amorphous (1 - 5%) CAS#: 7631-86-9	OECD Test No. 406: Skin Sensitization	Guinea pig	Not confirmed to be a skin sensitizer	IUCLID (The International Uniform Chemical Information Database)

#### 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

Test data reported below.

#### Oral Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Silica, amorphous (1 - 5%) CAS#: 7631-86-9	Rat LC⊾	5000 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)

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

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data

Silica, amorphous (1 - 5%)	Rat LC⊾₀	2.19 mg/L	4 hours	Lungs, Thorax, or Respiration	RTECS (Registry of Toxic Effects of Chemical
CAS#: 7631-86-9				Dyspnea	Substances)

#### STOT - repeated exposure

May cause damage to organs.

**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**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Hydroxylamine, hydrochloride (<10%) CAS#: 5470-11-1	Rat LD⊾₀	2478 mg/kg	6 days	Behavioral Food intake Blood Changes in blood leukocyte count Nutritional and Gross Metabolic Weight loss or decreased weight gain	NIOSH (National Institute for Occupational Safety and Health)

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

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Silica, amorphous (1 - 5%) CAS#: 7631-86-9	Rat TC⊾₀	0.154 mg/L	28 days	Lungs, Thorax, or Respiration Structural or functional change in trachea or bronchi	RTECS (Registry of Toxic Effects of Chemical Substances)

#### **Carcinogenicity**

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

#### **Product Carcinogenicity Data**

No data available.

#### Ingredient Carcinogenicity Data

No data available.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Hydroxylamine, hydrochloride	5470-11-1	-	-	-	-
Silica, amorphous	7631-86-9	-	Group 3	Known	Х

#### 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)	

#### Germ cell mutagenicity

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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**

Ecotoxicity	Based on available data, the classification criteria are not met.
Unknown aquatic toxicity	0 % 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

Test data reported below.

#### Fish

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Silica, amorphous (1 - 5%) CAS#: 7631-86-9	96 hours	Brachydanio rerio	LC <sub>50</sub>	5000 mg/L	IUCLID (The International Uniform Chemical Information Database)

#### Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Silica, amorphous (1 - 5%)	48 Hours	Ceriodaphnia dubia	EC <sub>50</sub>	7600 mg/L	IUCLID (The International Uniform Chemical Information

CAS#: 7631-86-9			Database)
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#### Algae

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Silica, amorphous (1 - 5%) CAS#: 7631-86-9	72 Hours	Selenastrum capricornutum	EC50	440 mg/L	IUCLID (The International Uniform Chemical Information Database)

# Aquatic Chronic Toxicity No data available.

#### Persistence and degradability

Product Biodegradability Data No data available.	
Bioaccumulation MATERIAL DOES NOT BIOACCUMULATE <b>Product Bioaccumulation Data</b> No data available.	
Partition Coefficient (n-octanol/water)	log K <sub>ow</sub> ~ -0.2
Mobility	
Soil Organic Carbon-Water Partition Coefficient	log Koc ~ 0.1
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.
Contaminated packaging	Do not reuse empty containers.
US EPA Waste Number	No information available
Special instructions for disposal	Work in an approved fume hood. Dilute material with excess water making a weaker than 5% solution. 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

14. TRANSPORT INFORMATION		
DOT	Not regulated	
TDG	Not regulated	
IATA	Not regulated	
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local information regarding the proper disposal of chemicals.

#### IMDG

Not regulated

#### Additional information

# **15. REGULATORY INFORMATION**

National Inventories TSCA DSL/NDSL

Complies 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**

#### <u>SARA 313</u>

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

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
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 contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Silica, amorphous (CAS #: 7631-86-9)	Carcinogen

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

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

#### **IMERC:** Not applicable

#### 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
Silica, amorphous	-	X	Х
7631-86-9			

#### U.S. EPA Label Information

Chemical name	FIFRA	FDA
Silica, amorphous	180.0930	-

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

# Special Comments

EN / AGHS

**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

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> 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* RSP+ C M	Skin designation Respiratory sensitizatio Carcinogen mutagen	n	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant
Prepared By	Had	h Product Compliand	ce Department	
Issue Date	26-	Feb-2021		
<b>Revision Date</b>	26-	Feb-2021		
<b>Revision Note</b>	Nor	e		

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**