SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier
Product Name Sodium Periodate

Other means of identification
Product Code(s) 98499

Safety data sheet number M00021

UN/ID no UN1479***

Recommended use of the chemical and restrictions on use
Recommended Use 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 +1(515)232-2533 - 8am - 4pm CST***

2. HAZARDS IDENTIFICATION

Classification

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

Oxidizing solids***	Category 2***
Acute toxicity - Oral	Category 3***

Hazards not otherwise classified (HNOC)
Not applicable

Label elements

Signal word - Danger*

Hazard statements

H272 - May intensify fire; oxidizer***
H301 - Toxic if swallowed***

Precautionary statements
P270 - Do not eat, drink or smoke when using this product
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P405 - Store locked up
P501 - Dispose of contents/ container to an approved waste disposal plant
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P220 - Keep/Store away from clothing/ combustible materials
P221 - Take any precaution to avoid mixing with combustibles
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish***

Other Hazards Known
Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance
Chemical Name Periodic acid (HIO4), sodium salt
Chemical Family Oxidizing Agents.
Formula $NaIO_4$***
CAS No 7790-28-5***

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

Chemical name	CAS No.	Percent Range	HMRIC #
Periodic acid (HIO4), sodium salt* **	7790-28-5	100%	-

4. FIRST AID MEASURES

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.***

Inhalation Remove to fresh air.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.***

Skin contact IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.***

Ingestion Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.***

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.***

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

Suitable Extinguishing Media Use water. Do not use dry chemicals or foams. CO_2 or Halon may provide limited control. Flood fire area with water from a distance. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out.***

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

Specific hazards arising from the chemical These substances will accelerate burning when involved in a fire. Some may decompose explosively when heated or involved in a fire. May ignite combustibles (wood paper, oil, clothing, etc.). Runoff may create fire or explosion hazard.***

Hazardous combustion products Iodine. Iodine compounds. Sodium monoxide.

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.***

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. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See section 8 for more information. Stop leak if you can do it without risk.***
Other Information	Keep combustibles (wood, paper, oil, etc) away from spilled material. DO NOT GET WATER INSIDE CONTAINERS. Ventilate the area.***

Environmental precautions

Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.***

Methods and material for containment and cleaning up

Methods for containment	Stop leak if you can do it without risk. Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.***
Methods for cleaning up	With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Flush area with flooding quantities of water. Prevent product from entering drains. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.***
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	Use personal protection equipment. Avoid contact with skin, eyes or clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Use with local exhaust ventilation.***

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Do not store near combustible materials. Keep out of the reach of children.***
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.***

Eye/face protection

Tight sealing safety goggles.***

Skin and body protection

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Wear fire/flame resistant/retardant clothing.***

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. 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 Solid
Appearance powder
Color white
Odor None
Odor threshold No data available

Property	Values	Remarks • Method
Molecular weight	213.89 g/mole	
pH	4.5	5% Solution ***
Melting point/freezing point	300*** °C*** /*** 572*** °F***	***
Boiling point / boiling range	No data available	
Evaporation rate	Not applicable***	
Vapor pressure	Not applicable*** at*** 20 °C*** /*** 68 °F***	***
Vapor density (air = 1)	Not applicable***	***
Specific gravity (water = 1 / air = 1)	3.865	***
Partition Coefficient (n-octanol/water)	log K_{ow} ~ 0***	
Soil Organic Carbon-Water Partition Coefficient	log K_{oc} ~ 0***	
Autoignition temperature	No data available	
Decomposition temperature	300 °C*** /*** 572 °F***	
Dynamic viscosity	Not applicable***	
Kinematic viscosity	Not applicable***	

Solubility(ies)

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Completely soluble***	144000 mg/L	20 °C*** /*** 68 °F***

Solubility in other solvents

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

Other Information

Metal Corrosivity

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

Volatile Organic Compounds (VOC) Content
This Product is by Weight 100% an Individual Pure Chemical Substance***

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Periodic acid (HIO4), sodium salt***	7790-28-5	No data available	-

Explosive properties

Upper explosion limit	No data available
Lower explosion limit	No data available

Flammable properties

Flash point	Not applicable***
Method	No information available

Flammability Limit in Air

Upper flammability limit:	No data available
Lower flammability limit:	No data available

Oxidizing properties	Classified as an oxidizer according to GHS criteria.
Test method	Department of Transportation (DOT) Oxidizer Test
Sample/Cellulose mean burn time	4:1 Sample/Cellulose mean burn time = 12 seconds
Reference/Cellulose mean burn time	2:3 Potassium bromate/Cellulose mean burn time = 39.8 seconds

Bulk density No data available

Particle Size No information available

Particle Size Distribution No information available

10. STABILITY AND REACTIVITY

Reactivity
Oxidizer.***

Chemical stability
Stability May cause fire or explosion; strong oxidizer.***

Explosion data
Sensitivity to Mechanical Impact None
Sensitivity to Static Discharge Yes.***

Possibility of Hazardous Reactions
Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization
None under normal processing.

Conditions to avoid
Conditions to avoid Heat, flames and sparks. Incompatible materials.***

Incompatible materials
Incompatible materials organic material. Combustible material. Hydrocarbons.***

Hazardous Decomposition Products
Iodine. Iodine compounds. Sodium 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 Toxic if swallowed.***

Symptoms No information available.

Aggravated Medical Conditions None known.
Toxicologically synergistic products None known.
Toxicokinetics, metabolism and distribution This Product is by Weight 100% an Individual Pure Chemical Substance.***

Product Acute Toxicity Data This Product is by Weight 100% an Individual Pure Chemical Substance***

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

Unknown Acute Toxicity
0% of the mixture consists of ingredient(s) of unknown toxicity.***

Acute Toxicity Estimations (ATE) Not applicable***

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

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
Periodic acid (HIO4),	Rat	264***	None	None reported	Vendor SDS***

sodium salt*** (100%) CAS#: 7790-28-5	LD_{50}***	mg/kg***	reported		

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

Product Specific Target Organ Toxicity Single Exposure Data
Oral Exposure Route If available, see ingredient data below***
Dermal Exposure Route If available, see ingredient data below***
Inhalation (Dust/Mist) Exposure Route If available, see ingredient data below***
Inhalation (Vapor) Exposure Route If available, see ingredient data below***
Inhalation (Gas) Exposure Route If available, see ingredient data below***

Ingredient Specific Target Organ Toxicity Single Exposure Data
Oral Exposure Route If available, see data below***
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

Aspiration toxicity
If available, see data below***
Kinematic viscosity Not applicable***

Product Skin Corrosion/Irritation Data
This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.***

Ingredient Skin Corrosion/Irritation Data
If available, see data below

Product Serious Eye Damage/Eye Irritation Data
This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.***

Ingredient Eye Damage/Eye Irritation Data
No data available

Sensitization Information

Product Sensitization Data
Skin Sensitization Exposure Route This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.***
Respiratory Sensitization Exposure Route This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.***

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

Ingredient Specific Target Organ Toxicity Repeat Exposure Data
Oral Exposure Route If available, see data below

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

Product Carcinogenicity Data

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

Ingredient Carcinogenicity Data

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Periodic acid (HIO4), sodium salt***	7790-28-5	-	-	-	-

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 Labor)	Does not apply

Oral Exposure Route	If available, see data below
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

Product Germ Cell Mutagenicity *invitro* Data
This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.***

Ingredient Germ Cell Mutagenicity *invitro* Data
No data available

Product Germ Cell Mutagenicity *invivo* Data

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

Ingredient Germ Cell Mutagenicity *invivo* Data

Oral Exposure Route	If available, see data below
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

Product Reproductive Toxicity Data

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

Ingredient Reproductive Toxicity Data

Oral 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

12. ECOLOGICAL INFORMATION

Ecotoxicity Not considered to be harmful to aquatic life

Product Ecological Data This Product is by Weight 100% an Individual Pure Chemical Substance***

Aquatic toxicity

Fish If available, see ingredient data below***
Crustacea If available, see ingredient data below***
Algae If available, see ingredient data below***

Ingredient Ecological Data

Aquatic toxicity

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

Other Information

Persistence and degradability

Product Biodegradability Data
This Product is by Weight 100% an Individual Pure Chemical Substance.***

Ingredient Biodegradability Data

Bioaccumulation

Product Bioaccumulation Data
This Product is by Weight 100% an Individual Pure Chemical Substance.***

Partition Coefficient (n-octanol/water) log K_{ow} ~ 0***

Ingredient Bioaccumulation Data

Mobility

Soil Organic Carbon-Water Partition Coefficient log K_{oc} ~ 0***

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Completely soluble***	144000 mg/L	20 °C*** /*** 68 °F***

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products	Should not be released into the environment. 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	Work in an approved fume hood. Working in a large container, cautiously add small portions of the material to cold water with agitation. 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 reacted material to the drain. Allow cold water to run for 5 minutes to completely flush the system. Verification should be made that such disposal is not inconsistent with any pretreatment agreement your facility may have with the wastewater treatment facility. Dispose of material in an E.P.A. approved hazardous waste facility.

14. TRANSPORT INFORMATION

U.S. DOT ***

UN/ID no	UN1479***
Proper shipping name	Oxidizing Solid, N.O.S.
DOT Technical Name	(Sodium Periodate)
Hazard Class	5.1***
Packing Group	II***
Emergency Response Guide Number	140***

TDG ***

UN/ID no	UN1479***
Proper shipping name	Oxidizing Solid, N.O.S.***
TDG Technical Name	(Sodium Periodate)***
Hazard Class	5.1***
Packing Group	II***

IATA ***

UN/ID no	UN1479***
Proper shipping name	Oxidizing Solid, N.O.S.***
IATA Technical Name	(Sodium Periodate)***
Hazard Class	5.1***
Packing Group	II***
ERG Code	140***

IMDG ***

UN/ID no	UN1479***
Proper shipping name	Oxidizing Solid, N.O.S.***
IMDG Technical Name	(Sodium Periodate)***
Hazard Class	5.1***
Packing Group	II***

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	Complies
IECSC	Complies
KECL	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 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	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

U.S. EPA Label Information

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 OX***
HMIS	**Health hazards** - 2***	**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	08-Aug-2016
Revision Date	22-Feb-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