



**Be Right™**

# SAFETY DATA SHEET

This safety data sheet complies with the requirements of: GB/T 17519-2013 and GB/T 16483-2008

Issue Date 24-Jun-2016

Version 2

Revision Date 20-Jan-2017

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## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

**Product Name** Total Nitrogen HR Hydroxide Reagent Test 'N Tube™

### Other means of identification

**Product Code(s)** 2714000

**Safety data sheet number** M01349

**Alternate CAS Number** Not applicable

### Other Information

Not applicable

### Details of the supplier of the safety data sheet

#### Manufacturer Address

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

#### Supplier

HACH CHINA23, Saite Building, Jianguomenwai Street No.22, Beijing 100004: 400-686-8899, 800-840-6026

#### Emergency Telephone - China

400-007-0792 - 24 Hour Service

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

**Recommended Use** Determination of total nitrogen.

**Uses advised against** None.

**Restrictions on use** None.

### Synonyms

## Section 2: HAZARDS IDENTIFICATION

### **Emergency Overview**

Risk of serious damage to eyes

**Appearance** aqueous solution

**Physical state** Liquid.

**Odor** Odorless

### GHS - Classification

Serious eye damage/eye irritation - Category 1

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### Label elements



**Signal word** - Danger

### Hazard statements

H318 - Causes serious eye damage

### Precautionary statements

P280 - Wear eye protection/ face protection

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

P310 - Immediately call a POISON CENTER or doctor

### Physical hazards

Not applicable.

### Health hazards

Immediate Health Effects: Risk of serious damage to eyes. Impairment of vision.

Chronic effects: Not applicable.

### Environmental hazards

This material is a water pollutant. Keep out of drains, sewers, ditches and waterways. Minimize use of water to prevent environmental contamination. Hazardous to the ozone layer.

### Other hazards

Not applicable

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable

### Mixture

### Synonyms

Chemical Name	Percent Range	Formula	Molecular weight	CAS No	EC No
Sodium hydroxide	0.1 - 1%	NaOH	40.0	1310-73-2	215-185-5
Disodium carbonate	0.1 - 1%	Na <sub>2</sub> CO <sub>3</sub>	105.99	497-19-8	207-838-8

## Section 4: FIRST AID MEASURES

### Description of first aid measures

#### **General advice**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### **Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms

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persist, call a physician.

**Skin contact**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If symptoms persist, call a physician.

**Eye contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

**Ingestion**

IF SWALLOWED: Rinse Mouth. If symptoms persist, call a physician.

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

**Symptoms**

See Section 11: TOXICOLOGICAL INFORMATION.

**For emergency responders**

**Self-protection of the first aider**

Use personal protective equipment as required. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

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

**Note to physicians**

Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

**Flammable properties**

**Flammable properties**

Material is not classified as flammable according to GHS criteria.

**Suitable Extinguishing Media**

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Unsuitable extinguishing media**

No information available

**Specific hazards arising from the chemical**

**Specific hazards arising from the chemical**

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

**Hazardous combustion products**

Carbon oxides  
Sodium oxides

**Special protective actions for fire-fighters**

**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit

## Section 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

Evacuate personnel to safe areas. Do not touch or walk through spilled material. Ventilate affected area. Use personal protective equipment as required.

**Environmental precautions**

**Environmental precautions**

Avoid release to the environment. See Section 12 for additional ecological information.

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### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up** Neutralize spill if necessary. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Dispose of in accordance with local, state and federal regulations or laws.

### Precautions to prevent secondary hazards

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

## Section 7: HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray.

**General Hygiene Considerations** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear suitable gloves and eye/face protection. Wash face, hands and any exposed skin thoroughly after handling. Regular cleaning of equipment, work area and clothing is recommended. 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.

**Materials to avoid** Strong oxidizing agents. Strong acids. Strong bases.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

#### Exposure Limits

Chemical Name	CAS No	Percent Range	China	ACGIH TLV	OSHA PEL
Sodium hydroxide	1310-73-2	0.1 - 1%	Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>
Disodium carbonate	497-19-8	0.1 - 1%	NDF	NDF	NDF

Legend

See section 16 for terms and abbreviations

### Appropriate engineering controls

Eyewash stations. Ventilation systems.

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

**Eye/face protection** Wear tight sealing safety goggles and/or face protection shield. Avoid contact with eyes.  
**Skin and body protection** Wear protective gloves and protective clothing.  
**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Environmental exposure controls** Prevent product from entering drains. Local authorities should be advised if significant

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spillages cannot be contained.

### Information on basic physical and chemical properties

**Physical state** Liquid

**Gas Under Pressure** Not classified according to GHS criteria.

**Appearance** aqueous solution      **Color** colorless

**Odor** Odorless      **Odor threshold** No data available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Molecular weight</b>	No data available	
<b>pH</b>	12.93	
<b>Melting point/freezing point</b>	~ 0 °C / 32 °F	Estimation based on theoretical calculation
<b>Boiling point / boiling range</b>	~ 100 °C / 212 °F	Estimation based on theoretical calculation
<b>Evaporation rate</b>	1 (water = 1) Estimation based on theoretical calculation	
<b>Vapor pressure</b>	24.002 mm Hg / 3.2 kPa at 25 °C / 77 °F	Estimation based on theoretical calculation
<b>Vapor density (air = 1)</b>	0.62 (air = 1)	
<b>Specific gravity (water = 1 / air = 1)</b>	~1	Estimation based on theoretical calculation
<b>Partition Coefficient (n-octanol/water)</b>	Not applicable	
<b>Soil Organic Carbon-Water Partition Coefficient</b>	Not applicable	
<b>Autoignition temperature</b>	No data available	
<b>Decomposition temperature</b>	No data available	
<b>Dynamic viscosity</b>	~ 1 cP (mPa s) at 20 °C / 68 °F	
<b>Kinematic viscosity</b>	~ .? cSt (mm <sup>2</sup> /s) at 20 °C / 68 °F	

### Solubility(ies)

#### **Water solubility**

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

#### **Solubility in other solvents**

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

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#### Other Information

##### **Metal Corrosivity**

Not classified as corrosive to metal according to GHS criteria.

##### **Steel Corrosion Rate**

No data available

##### **Aluminum Corrosion Rate**

No data available

##### **Bulk density**

Not applicable

##### **Explosive properties**

Not classified according to GHS criteria.

##### **Explosion data**

No data available

##### **Upper explosion limit**

No data available

##### **Lower explosion limit**

No data available

##### **Flammable properties**

Material is not classified as flammable according to GHS criteria.

##### **Flammability Limit in Air**

##### **Upper flammability limit:**

No data available

##### **Lower flammability limit:**

No data available

##### **Flash point**

No data available

##### **Method**

No information available

##### **Oxidizing properties**

Not classified according to GHS criteria.

##### **Reactivity properties**

Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria.

## **Section 10: STABILITY AND REACTIVITY**

##### **Reactivity properties**

Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria.

##### **Chemical stability**

Stable under recommended storage conditions.

##### **Special dangers of the product**

No information available

##### **Explosion data**

##### **Upper explosion limit**

No data available

##### **Lower explosion limit**

No data available

##### **Autoignition temperature**

No data available

##### **Sensitivity to Mechanical Impact**

None.

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Sensitivity to Static Discharge None.

**Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

**Conditions to avoid**

Extremes of temperature and direct sunlight.

**Incompatible materials**

None known based on information supplied.

**Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Section 11: TOXICOLOGICAL INFORMATION**

**Information on Likely Routes of Exposure**

Product Information	Corrosive to eyes.
Inhalation	No known effect based on information supplied.
Eye contact	Corrosive to the eyes and may cause severe damage including blindness.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Toxicologically synergistic products	None known.
Toxicokinetics, metabolism and distribution	No information available.

**Product Acute Toxicity Data**

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Unknown acute toxicity

**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
Disodium carbonate (0.1 - 1%) CAS#: 497-19-8	Rat LD <sub>50</sub>	4090 mg/kg	None reported	None reported	IUCLID (The International Uniform Chemical Information Database)
Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium hydroxide	Rabbit	500 mg/kg	None	None reported	Vendor SDS

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(0.1 - 1%) CAS#: 1310-73-2	LD <sub>50</sub>		reported		
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**Dermal Exposure Route**

If available, see data below

Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Disodium carbonate (0.1 - 1%) CAS#: 497-19-8	Mouse LD <sub>50</sub>	2210 mg/kg	None reported	None reported	IUCLID (The International Uniform Chemical Information Database)
Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium hydroxide (0.1 - 1%) CAS#: 1310-73-2	Rabbit LD <sub>50</sub>	1350 mg/kg	None reported	None reported	IUCLID (The International Uniform Chemical Information Database)

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

If available, see data below

Chemical Name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Disodium carbonate (0.1 - 1%) CAS#: 497-19-8	Rat LC <sub>50</sub>	1.15 mg/L	4 hours	None reported	IUCLID (The International Uniform Chemical Information Database)

**Inhalation (Vapor) Exposure Route**

If available, see data below

**Inhalation (Gas) Exposure Route**

No data available

**Product Skin Corrosion/Irritation Data**

No data available.

Test method	Species	Results	Key literature references and sources for data
Standard Draize Test	Rabbit	Not corrosive or irritating to skin	Outside testing

**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
Sodium hydroxide (0.1 - 1%) CAS#: 1310-73-2	Patch test	Human	20 mg	24 hours	Corrosive to skin	RTECS (Registry of Toxic Effects of Chemical Substances)
Disodium carbonate (0.1 - 1%) CAS#: 497-19-8	Standard Draize Test	Rabbit	500 mg	24 hours	Mild skin irritant	ECHA (The European Chemicals Agency) HSDB (Hazardous Substances Data Bank)
Chemical Name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Disodium carbonate (0.1 - 1%) CAS#: 497-19-8	Patch test	Rabbit	500 mg	4 hours	Mild skin irritant	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

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Chemical Name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium hydroxide (0.1 - 1%) CAS#: 1310-73-2	Standard Draize Test	Rabbit	0.05 mg	24 hours	Corrosive to eyes	RTECS (Registry of Toxic Effects of Chemical Substances)
Disodium carbonate (0.1 - 1%) CAS#: 497-19-8	Standard Draize Test	Rabbit	100 mg	24 hours	Eye irritant	HSDB (Hazardous Substances Data Bank)
Chemical Name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Disodium carbonate (0.1 - 1%) CAS#: 497-19-8	Standard Draize Test	Rabbit	0.1 mL	4 seconds	Eye irritant	ECHA (The European Chemicals Agency)

#### Sensitization Information

##### Product Sensitization Data

Skin Sensitization Exposure Route No data available.

Respiratory Sensitization Exposure Route No data available.

##### Ingredient Sensitization Data

Skin Sensitization Exposure Route No data available.

Respiratory Sensitization Exposure Route No data available.

#### Chronic Toxicity Information

##### Product Repeat Dose Toxicity Data

Oral Exposure Route No data available.

Dermal Exposure Route No data available.

Inhalation (Dust/Mist) Exposure Route No data available.

Inhalation (Vapor) Exposure Route No data available.

Inhalation (Gas) Exposure Route No data available.

##### Ingredient Repeat Dose Toxicity Data

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Chemical Name	CAS No	ACGIH	IARC	NTP	OSHA
Sodium hydroxide	1310-73-2	-	-	-	-

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Disodium carbonate	497-19-8	-	-	-	-
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**Legend**

<b>ACGIH (American Conference of Governmental Industrial Hygienists)</b>	Does not apply
<b>IARC (International Agency for Research on Cancer)</b>	Does not apply
<b>NTP (National Toxicology Program)</b>	Does not apply
<b>OSHA (Occupational Safety and Health Administration of the US Department of Labor)</b>	Does not apply

**Oral Exposure Route** No data available

**Dermal Exposure Route** No data available

**Inhalation (Dust/Mist) Exposure Route** No data available

**Inhalation (Vapor) Exposure Route** No data available

**Inhalation (Gas) Exposure Route** No data available

**Ingredient Carcinogenicity Data**

**Oral Exposure Route** No data available

**Dermal Exposure Route** No data available

**Inhalation (Dust/Mist) Exposure Route** No data available

**Inhalation (Vapor) Exposure Route** No data available

**Inhalation (Gas) Exposure Route** No data available

**Product Germ Cell Mutagenicity *in vitro* Data**

No data available.

**Ingredient Germ Cell Mutagenicity *in vitro* Data** No data available

**Oral Exposure Route** No data available

**Dermal Exposure Route** No data available

**Inhalation (Dust/Mist) Exposure Route** No data available

**Inhalation (Vapor) Exposure Route** No data available

**Inhalation (Gas) Exposure Route** No data available

**Ingredient Germ Cell Mutagenicity *in vivo* Data**

**Oral Exposure Route** No data available

**Dermal Exposure Route** No data available

**Inhalation (Dust/Mist) Exposure Route** No data available

**Inhalation (Vapor) Exposure Route** No data available

**Inhalation (Gas) Exposure Route** No data available

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Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

**Ingredient Reproductive Toxicity Data**

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

**Section 12: ECOLOGICAL INFORMATION**

Ecotoxicity Based on the classification principles, not classified as hazardous to the environment

**Product Ecological Data**

**Aquatic toxicity**

Fish No data available

Crustacea No data available

Algae No data available

**Terrestrial toxicity**

Soil No data available

Vertebrates No data available

Invertebrates No data available

**Ingredient Ecological Data**

**Aquatic toxicity**

Fish If available, see ingredient data below

Chemical Name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium hydroxide (0.1 - 1%) CAS#: 1310-73-2	96 hours	<i>Oncorhynchus mykiss</i>	LC <sub>50</sub>	45.4 mg/L	IUCLID (The International Uniform Chemical Information Database)
Disodium carbonate (0.1 - 1%) CAS#: 497-19-8	96 hours	<i>Lepomis macrochirus</i>	LC <sub>50</sub>	300 mg/L	IUCLID (The International Uniform Chemical Information Database)

Crustacea If available, see ingredient data below

Chemical Name	Exposure	Species	Endpoint	Reported	Key literature references and
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	time		type	dose	sources for data
Sodium hydroxide (0.1 - 1%) CAS#: 1310-73-2	48 Hours	<i>Daphnia sp.</i>	EC <sub>50</sub>	40.4 mg/L	IUCLID (The International Uniform Chemical Information Database)
Disodium carbonate (0.1 - 1%) CAS#: 497-19-8	48 Hours	<i>Daphnia magna</i>	EC <sub>50</sub>	265 mg/L	IUCLID (The International Uniform Chemical Information Database)

**Algae** No data available

**Terrestrial toxicity**

**Soil** No data available

**Vertebrates** No data available

**Invertebrates** No data available

**Other Information**

**Persistence and degradability**

None known.

**Product Biodegradability Data**

If available, see ingredient data below.

**Ingredient Biodegradability Data**

Test data reported below

**Bioaccumulation**

None known.

**Product Bioaccumulation Data**

If available, see ingredient data below.

**Ingredient Bioaccumulation Data**

No data available

Chemical Name	Test method	Exposure time	Species	Bioconcentration factor (BCF)	Results
Disodium carbonate (0.1 - 1%) CAS#: 497-19-8	None reported	None reported	None reported	None reported	Does not have the potential to bioaccumulate

**Additional information**

**Product Information**

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

Not applicable

**Ingredient Information**

**Mobility**

Mobility in soil: High mobility. If available, see ingredient data below.

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#### Product Information

Soil Organic Carbon-Water Partition Coefficient

Not applicable

Ingredient Information

No data available

#### Additional information

Water solubility

#### Product Information

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

#### Ingredient Information

<u>Chemical Name</u>	<u>Water solubility classification</u>	<u>Water solubility</u>	<u>Water solubility temperature °C</u>	<u>Water solubility temperature °F</u>
Sodium hydroxide (0.1 - 1%) CAS#: 1310-73-2	Completely soluble	420000 mg/L	0 °C	32 °F
Disodium carbonate (0.1 - 1%) CAS#: 497-19-8	Completely soluble	220000 mg/L	20 °C	68 °F

#### Other adverse effects

No information available.

### Section 13: DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste from residues/unused products

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Contaminated packaging

Do not reuse container.

### Section 14: TRANSPORTATION INFORMATION

#### DOT

UN/ID no 1760  
Proper shipping name Corrosive Liquid, N.O.S.  
Hazard Class 8  
Packing Group II

#### IMDG

UN/ID no 1760  
Proper shipping name Corrosive Liquid, N.O.S.  
Hazard Class 8  
Packing Group II

#### IATA

UN/ID no 1760  
Proper shipping name Corrosive Liquid, N.O.S.  
Hazard Class 8

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Packing Group

II

## Section 15: REGULATORY INFORMATION

### National Regulations

**Law of the People's Republic of China on Prevention and Control of Occupational Diseases**

**Catalogue of occupational hazard factors:** Not applicable.

**Catalogue of occupational diseases:** Not applicable.

Chemical Name	Category
Sodium hydroxide	Chemical hazards

### Regulations on the Control over Safety of Hazardous Chemicals

**Inventory of hazardous chemicals** Not applicable.

Chemical Name	Inventory of hazardous chemicals
Sodium hydroxide	Listed

**GB 18218-2009 Identification of major hazard installations for dangerous chemicals** Not applicable.

**List of hazardous chemicals under priority management** Not applicable.

**Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used**

Inventory of highly toxic goods Not applicable.

**Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals**

List of toxic chemicals severely restricted for import and export in China Not applicable.

**Measures for the Environmental Management of New Chemical Substances**

**IECSC** Complies

*IECSC- China Inventory of Existing Chemical Substances*

### International Inventories

**TSCA** Complies

**DSL/NDSL** Complies

**EINECS/ELINCS** Complies

**ENCS** Complies

**KECL** Complies

**PICCS** Complies

**TCSI** Complies

**AICS** Complies

**NZIoC** Complies

**TSCA-** United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL-** Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS-** European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS-** Japan Existing and New 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

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NZIoC- New Zealand Inventory of Chemicals

**International Regulations**

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

**Section 16: OTHER INFORMATION**

Prepared By Hach Product Compliance Department

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Revision Note None

Reference Sources for Section 11 See Section 11: TOXICOLOGICAL 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)
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		

**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.

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