

# SAFETY DATA SHEET

Issue Date 16-Aug-2018 Revision Date 17-Aug-2018 Version 2.4 Page 1 / 14

### 1. IDENTIFICATION

Product identifier

Product Name ORP Standard Solution, ZoBell's Solution

Other means of identification

Product Code(s) 2316949

Safety data sheet number M02966

Recommended use of the chemical and restrictions on use

Recommended Use Standard solution.

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

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Substance Not applicable

#### **Mixture**

Chemical name	CAS No.	Percent Range	HMRIC #
Ferrate(4-), hexakis(cyano-C)-, tetrapotassium, (OC-6-11)-	13943-58-3	<1%	1
Potassium ferricyanide	13746-66-2	<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** This material will not burn.

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.

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Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

**Environmental precautions** 

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

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

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

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## 7. HANDLING AND STORAGE

**Precautions for safe handling** 

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

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

Flammability class Not applicable

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

#### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Ferrate(4-), hexakis(cyano-C)-, tetrapotassium, (OC-6-11)- CAS#: 13943-58-3	TWA: 1 mg/m³	TWA: 5 mg/m³ (vacated) TWA: 1 mg/m³ (vacated) TWA: 5 mg/m³  *	IDLH: 25 mg/m³ CN TWA: 1 mg/m³ Fe	
Potassium ferricyanide CAS#: 13746-66-2	TWA: 1 mg/m³	TWA: 5 mg/m³ (vacated) TWA: 1 mg/m³ (vacated) TWA: 5 mg/m³ *	IDLH: 25 mg/m <sup>3</sup> CN TWA: 1 mg/m <sup>3</sup> Fe	

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.

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

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

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

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained. Do not

allow into any sewer, on the ground or into any body of water.

Thermal hazards None under normal processing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state

Liquid

**Appearance** ac

aqueous solution

Color colorless

Odor throshold No data availab

Odor Odorless Odor threshold No data available

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

Molecular weight No data available

**pH** No data available

**Melting point/freezing point** ~ 0 °C / 32 °F Estimation based on theoretical

calculation

Boiling point / boiling range ~ 100 °C / 212 °F Estimation based on theoretical

calculation

**Evaporation rate** 1 (water = 1) Estimation based on theoretical

calculation

Vapor pressure 17.477 mm Hg / 2.33 kPa at 20 °C / 68 °F Estimation based on theoretical

calculation

Vapor density (air = 1) 0.62

Specific gravity (water = 1 / air = 1) 1 Estimation based on theoretical

calculation

Partition Coefficient (n-octanol/water) Not applicable

**Soil Organic Carbon-Water Partition** 

**Autoignition temperature** 

Coefficient

Not applicable

No data available

**Decomposition temperature**No data available

**Dynamic viscosity** ~ 1 cP (mPa s) at 20 °C / 68 °F

Kinematic viscosity  $\sim 1 \text{ cSt (mm}^2\text{/s)}$  at 20 °C / 68 °F

Solubility(ies)

Water solubility

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

#### Solubility in other solvents

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

#### Other Information

**Metal Corrosivity** 

Steel Corrosion RateNo data availableAluminum Corrosion RateNo data available

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

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)	
Ferrate(4-), hexakis(cyano-C)-, tetrapotassium, (OC-6-11)-	13943-58-3	No data available	-	
Potassium ferricyanide	13746-66-2	No data available	-	

### **Explosive properties**

Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point No data available

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**

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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**

None known based on information supplied.

### 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

**Product Information** 

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

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

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

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

**Symptoms** No information available.

Aggravated Medical Conditions None known.

Toxicologically synergistic None known.

products

Toxicokinetics, metabolism and No information available.

distribution

**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
Ferrate(4-), hexakis(cyano-C)-, tetrapotassium, (OC-6-11)- (<1%)	Rat LD50	3613 mg/kg	None reported	None reported	GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)

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CAS#: 13943-58-3					
Potassium ferricyanide (<1%) CAS#: 13746-66-2	Mouse LD <sub>50</sub>	2970 mg/kg	None reported	None reported	Vendor SDS

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

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

Oral Exposure Route

Dermal Exposure Route

Inhalation (Dust/Mist) Exposure Route

Inhalation (Vapor) Exposure Route

Inhalation (Gas) Exposure Route

No data available

No data available

No data available

No data available

Ingredient Specific Target Organ Toxicity Single Exposure Data

Oral Exposure Route

Dermal Exposure Route

If available, see data below

**Aspiration toxicity** 

If available, see data below

Kinematic viscosity ~ 1 cSt (mm²/s)

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

No data available.

## **Ingredient Skin Corrosion/Irritation Data**

If available, see data below

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Ferrate(4-), hexakis(cyano-C)-, tetrapotassium, (OC-6-11)- (<1%) CAS#: 13943-58-3	None reported	Rabbit	None reported	None reported	Not corrosive or irritating to skin	IUCLID (The International Uniform Chemical Information Database)

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

No data available.

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

If available, see data below

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Ferrate(4-), hexakis(cyano-C)-, tetrapotassium, (OC-6-11)- (<1%) CAS#: 13943-58-3	None reported	Rabbit	None reported	None reported	Mild eye irritant	IUCLID (The International Uniform Chemical Information Database)

### **Sensitization Information**

#### **Product Sensitization Data**

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

**Ingredient Sensitization Data** 

Skin Sensitization Exposure Route If available, see data below.

Chemical name	Test method	Species	Results	Key literature references and sources for data
		<del>  </del>		
Ferrate(4-),	None reported	Guinea pig	Not confirmed to be a skin sensitizer	`
hexakis(cyano-C)-,				Chemical Information Database)
tetrapotassium,				·
(OC-6-11)-				
(<1%)				
\/				
CAS#: 13943-58-3				

**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

## **Product Carcinogenicity Data**

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

**Ingredient Carcinogenicity Data** 

	<del></del>				
Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Ferrate(4-),	13943-58-3	=	-	-	-
hexakis(cyano-C)-,					
tetrapotassium, (OC-6-11)-					
Potassium ferricyanide	13746-66-2	-	-	-	-

## Legend

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

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

#### Product Germ Cell Mutagenicity invitro Data

No data available.

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Ingredient Germ Cell Mutagenicity invitro Data

If available, see data below

Product Germ Cell Mutagenicity invivo Data

Oral Exposure Route

Dermal Exposure Route

Inhalation (Dust/Mist) Exposure Route

Inhalation (Vapor) Exposure Route

Inhalation (Gas) Exposure Route

No data available

No data available

No data available

No data available

Ingredient Germ Cell Mutagenicity invivo Data

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

**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

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

	/			The state of the s	
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Ferrate(4-),	Rat	0.537 mg/L	22 days	Effects on Embryo or Fetus	RTECS (Registry of Toxic
hexakis(cyano-C)-,	TDLo		-	Fetal death	Effects of Chemical
tetrapotassium,					Substances)
(OC-6-11)-					
(<1%)					
CAS#: 13943-58-3					

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

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Product Ecological Data

**Aquatic toxicity** 

FishNo data availableCrustaceaNo data availableAlgaeNo data available

**Ingredient Ecological Data** 

**Aquatic toxicity** 

Fish If available, see ingredient data below

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Ferrate(4-), hexakis(cyano-C)-,	96 hours	Poecilia reticulata	LC <sub>50</sub>	19 mg/L	IUCLID (The International Uniform Chemical Information

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tetrapotassium, (OC-6-11)- (<1%) CAS#: 13943-58-3					Database)
Potassium ferricyanide (<1%) CAS#: 13746-66-2	96 hours	Oncorhynchus mykiss	LC50	869 mg/L	Vendor SDS

Crustacea If available, see ingredient data below **Chemical name Exposure Species Endpoint** Reported Key literature references and time type dose sources for data Ferrate(4-), 48 Hours Daphnia magna EC<sub>50</sub> LC<sub>50</sub> 64 mg/L IUCLID (The International hexakis(cyano-C)-, **Uniform Chemical Information** Database) tetrapotassium, (OC-6-11)-(<1%) CAS#: 13943-58-3

Algae No data available

**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)

Not applicable

**Ingredient Bioaccumulation Data** 

**Mobility** 

**Soil Organic Carbon-Water Partition Coefficient** 

Not applicable

Water solubility

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

#### Other adverse effects

No information available.

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Endocrine disrupting potential
Ferrate(4-), hexakis(cyano-C)-, tetrapotassium, (OC-6-11)- (<1%) CAS#: 13943-58-3	Group III Chemical	-	-
Potassium ferricyanide (<1%) CAS#: 13746-66-2	Group III Chemical	-	-

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### 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.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Ferrate(4-), hexakis(cyano-C)-, tetrapotassium, (OC-6-11)- 13943-58-3	-	Included in waste streams: F007, F008, F009, F010, F011	-	-

#### Special instructions for disposal

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

## 14. TRANSPORT INFORMATION

U.S. DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG Not regulated

**Note:** No special precautions necessary.

### **Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

### 15. REGULATORY INFORMATION

National Inventories

TSCA Complies DSL/NDSL Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

International Inventories

EINECS/ELINCS

ENCS

Complies

IECSC

KECL

PICCS

Complies

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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

Chemical name	SARA 313 - Threshold Values %
Ferrate(4-), hexakis(cyano-C)-, tetrapotassium, (OC-6-11)- (CAS	1.0
#: 13943-58-3)	
Potassium ferricyanide (CAS #: 13746-66-2)	1.0

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ferrate(4-),	-	X	Χ	-
hexakis(cyano-C)-,				
tetrapotassium,				
(OC-6-11)-				
13943-58-3				
Potassium ferricyanide	-	X	X	-
13746-66-2				

#### CFRCI A

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	
Ferrate(4-), hexakis(cyano-C)-, tetrapotassium, (OC-6-11)- (CAS	Male Reproductive	

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#: 13943-58-3)

**WARNING:** This product can expose you to chemicals including Ferrate(4-), hexakis(cyano-C)-, tetrapotassium, (OC-6-11)-, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to http://www.P65Warnings.ca.gov

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ferrate(4-), hexakis(cyano-C)-,	X	-	X
tetrapotassium, (OC-6-11)-			
13943-58-3			
Potassium ferricyanide	X	-	X
13746-66-2			ļ

#### U.S. EPA Label Information

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

#### **Special Comments**

None

**TWA** 

### **Additional information**

## Global Automotive Declarable Substance List (GADSL)

Not applicable

### **NFPA and HMIS Classifications**

NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and Chemical Properties -
HMIS	Health hazards - 0	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 (American Conference of Governmental Industrial Hygienists)

NDF no data

### Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA (time-weighted average)

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

STEL

regulations.

STEL (Short Term Exposure Limit)

SKN\* Skin designation SKN+ Skin sensitization RSP+ Respiratory sensitization \*\* Hazard Designation

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C Carcinogen R Reproductive toxicant

M mutagen

Prepared By Hach Product Compliance Department

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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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