

# SAFETY DATA SHEET

Issue Date 10-Jun-2021 Revision Date 08-Feb-2023 Version 3.1 Page 1 / 14

### 1. IDENTIFICATION

Product identifier

Product Name Copper Standard Solution 10 mg/l as Cu

Other means of identification

Product Code(s) 12932

Safety data sheet number M00412

Recommended use of the chemical and restrictions on use

Recommended Use Standard solution.
Uses advised against Consumer use.

**Restrictions on use** For 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

#### Emergency telephone number

+1(303) 623-5716 - 24 Hour Service

### 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)

Chronic aquatic toxicity Category 3

## Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

### Signal word

None

#### **Hazard statements**

The product contains no substances which at their given concentration, are considered to be hazardous to health

H412 - Harmful to aquatic life with long lasting effects

## **Precautionary statements**

P273 - Avoid release to the environment

P501 - Dispose of contents/ container to an approved waste disposal plant

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Other Hazards Known

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance** 

Not applicable

**Mixture** 

Chemical Family Mixture.

**Chemical nature** aqueous solution.

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No	Percent Range	HMRIC #
Cupric nitrate	3251-23-8	<0.01%	-
Sulfuric acid	7664-93-9	<0.01%	-

### 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

Note to physicians 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

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.

Use personal protection equipment.

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## 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.

**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 Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Take up mechanically, placing in appropriate containers for disposal.

**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
Cupric nitrate	TWA: 1 mg/m <sup>3</sup> Cu dust and	NDF	IDLH: 100 mg/m3 Cu dust and
CAS#: 3251-23-8	mist		mist
			TWA: 1 mg/m <sup>3</sup> Cu dust and
			mist
Sulfuric acid	TWA: 0.2 mg/m³ thoracic	TWA: 1 mg/m <sup>3</sup>	IDLH: 15 mg/m <sup>3</sup>
CAS#: 7664-93-9	particulate matter	(vacated) TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

Appropriate engineering controls

Engineering Controls Showers

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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.

**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 aqueous solution Odor None Color Colorless to light blue
Odor threshold No information available

Property Values Remarks • Method

Molecular weight No data available

pH 3.5 @ 20 °C

Melting point / freezing point ~ 0 °C / 32 °F

Initial boiling point and boiling range ~ 100 °C / 212 °F

**Evaporation rate** 0.75 (water = 1)

**Vapor pressure** 23.777 mm Hg  $\,/\,$  3.17 kPa at 25 °C  $\,/\,$  77 °F

Relative vapor density 0.62

Specific Gravity 0.989

Partition coefficient Not applicable

**Soil Organic Carbon-Water Partition** 

Coefficient

Not applicable

Autoignition temperature No data available

**Decomposition temperature**No information available

**Dynamic viscosity** No data available

Kinematic viscosity No data available

Solubility(ies)

Water solubility

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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_
Acid	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**

See ingredients information below

	Chemical name	CAS No	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
I	Cupric nitrate	3251-23-8	No data available	-
	Sulfuric acid	7664-93-9	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 limit:No data availableLower flammability limit:No data available

Oxidizing properties No data available.

Bulk density Not applicable

### **10. STABILITY AND REACTIVITY**

### Reactivity

Not applicable.

### Chemical stability

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**

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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

No information available.

## 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.

#### **Acute toxicity**

Based on available data, the classification criteria are not met

### Mixture

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
Cupric nitrate (<0.01%) CAS#: 3251-23-8	Rat LD <sub>50</sub>	794 mg/kg	None reported	None reported	ERMA

## **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

#### Skin corrosion/irritation

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

### Mixture

No data available.

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## Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Cupric nitrate (<0.01%) CAS#: 3251-23-8	Rinse Test	Rabbit	100 mg	4 seconds	Skin irritant	ERMA
Sulfuric acid (<0.01%) CAS#: 7664-93-9	Existing human experience	Human	None reported	None reported	Corrosive to skin	HSDB

### Serious eye damage/irritation

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

#### **Mixture**

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
Cupric nitrate (<0.01%) CAS#: 3251-23-8	Standard Draize Test	Rabbit	100 mg	None reported	Corrosive to eyes	ERMA
Sulfuric acid (<0.01%) CAS#: 7664-93-9	Existing human experience	Human	None reported	None reported	Corrosive to eyes	HSDB

### Respiratory or skin sensitization

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

#### Mixture

No data available.

## **Ingredient Sensitization Data**

No data available.

### STOT - single exposure

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

## Mixture

No data available.

## Ingredient Specific Target Organ Toxicity Single Exposure Data

Test data reported below.

## Inhalation (Vapor) Exposure Route

	Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Γ	Sulfuric acid	Human	0.144 mg/L	5 minutes	Lungs, Thorax, or	RTECS
	(<0.01%)	$TD_Lo$			Respiration	
L	CAS#: 7664-93-9				Dyspnea	

### STOT - repeated exposure

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

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### Mixture

No data available.

### Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Test data reported below.

### Inhalation (Vapor) Exposure Route

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Sulfuric acid	Human	0.003 mg/L	168 days	Musculoskeletal	RTECS
(<0.01%)	TCLo		-	Changes in teeth and supporting	
CAS#: 7664-93-9				structures	

#### Carcinogenicity

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

#### **Mixture**

No data available.

### **Ingredient Carcinogenicity Data**

No data available.

Chemical name	CAS No	ACGIH	IARC	NTP	OSHA
Cupric nitrate	3251-23-8	-	Group 2A	-	X
Sulfuric acid	7664-93-9	A2	Group 1	Known	Χ

### 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	Does not apply

### Germ cell mutagenicity

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

#### Mixture invitro Data

No data available.

### Substance invitro Data

Test data reported below.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Cupric nitrate (<0.01%) CAS#: 3251-23-8	Cytogenetic analysis	Rat ascites tumor	600 mg/kg	None reported	Positive test result for mutagenicity	RTECS
Sulfuric acid (<0.01%) CAS#: 7664-93-9	Cytogenetic analysis	Hamster ovary	4 mmol/L	None reported	Positive test result for mutagenicity	No information available

Mixture invivo Data

No data available.

### Substance invivo Data

No data available.

### Reproductive toxicity

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

### **Mixture**

No data available.

### **Ingredient Reproductive Toxicity Data**

Test data reported below.

### Inhalation (Vapor) Exposure Route

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sulfuric acid	Rabbit	0.02 mg/L	7 hours	Specific Developmental	No information available
(<0.01%)	TCLo			Abnormalities	
CAS#: 7664-93-9				Musculoskeletal system	

#### **Aspiration hazard**

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

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Unknown aquatic toxicity** 0% of the mixture consists of components(s) of unknown hazards to the aquatic

environment.

### **Mixture**

**Aquatic Acute Toxicity** 

No data available.

**Aquatic Chronic Toxicity** 

No data available.

### **Substance**

### **Aquatic Acute Toxicity**

Test data reported below.

#### Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Cupric nitrate (<0.01%)	48 Hours	Ceriodaphnia dubia	LC50	0.0095 mg/L	ERMA
CAS#: 3251-23-8					

#### **Aquatic Chronic Toxicity**

No data available.

### Persistence and degradability

### Mixture

No data available.

#### Mixture

No data available.

Partition coefficient Not applicable

### **Mobility**

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**Soil Organic Carbon-Water Partition Coefficient** 

Not applicable

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 Not applicable

**Special instructions for disposal** 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. Flush system

with plenty of water.

### 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

IATA Not regulated

<u>IMDG</u> Not regulated

## **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 - Existing substances** Complies Complies **PICCS** TCSI Complies **AICS** Complies **NZIoC** Complies

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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 %
Cupric nitrate (CAS #: 3251-23-8)	1.0
Sulfuric acid (CAS #: 7664-93-9)	1.0

### SARA 311/312 Hazard Categories

Acute health hazard	No
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
Cupric nitrate 3251-23-8	100 lb	X	-	Х
Sulfuric acid 7664-93-9	1000 lb	-	-	Х

#### **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

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Cupric nitrate	100 lb	<del>-</del>	RQ 100 lb final RQ
3251-23-8			RQ 45.4 kg final RQ
Sulfuric acid	1000 lb	1000 lb	RQ 1000 lb final RQ
7664-93-9			RQ 454 kg final RQ

### U.S. - DEA (Drug Enforcement Administration) List I & List II

Chemical name	U.S DEA (Drug Enforcement Administration) - List I or Precursor Chemicals	U.S DEA (Drug Enforcement Administration) - List II or Essential Chemicals
Sulfuric acid (<0.01%) CAS#: 7664-93-9	Not Listed	50 gallon Export Volume (exports, transshipments and international transactions to designated countries
		given in 1310.08(b))

## **US State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals

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Chemical name	California Proposition 65
Sulfuric acid (CAS #: 7664-93-9)	Carcinogen

WARNING: This product can expose you to chemicals including Sulfuric acid, which is known to the State of California to

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

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
Cupric nitrate 3251-23-8	X	X	X
Sulfuric acid 7664-93-9	X	X	X

#### **U.S. EPA Label Information**

Chemical name	FIFRA	FDA
Sulfuric acid	180.0910	21 CFR 184.1095

## 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**

ſ	NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and chemical
					properties -
Ī	HMIS	Health hazards - 0	Flammability - 0	Physical hazards - 0	Personal protection -
-			-	_	X
1					- I

## Key or legend to abbreviations and acronyms used in the safety data sheet

**ACGIH** ACGIH (American Conference of Governmental Industrial Hygienists) **ATSDR** ATSDR (Agency for Toxic Substances and Disease Registry) **CCRIS** CCRIS (Chemical Carcinogenesis Research Information System) CDC CDC (Center for Disease Control)

CEPA (Canadian Environmental Protection Agency) **CEPA** 

CICAD (Concise International Chemical Assessment Documents) CICAD

**ECHA** ECHA (The European Chemicals Agency) **EEA** EEA (European Environment Agency) **EPA** EPA (Environmental Protection Agency)

ERMA (New Zealands Environmental Risk Management Authority) **ERMA** 

**ECOSARS** Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

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FDA FDA (Food & Drug Administration)

GESTIS GESTIS (Information System on Hazardous Substances of the German Social Accident

Insurance)

HSDB (Hazardous Substances Data Bank)

INERISINERIS (The National Industrial Environment and Risks Institute)IPCS INCHEMIPCS INCHEM (International Programme on Chemical Safety)IUCLIDIUCLID (The International Uniform Chemical Information Database)NITEJapan National Institute of Technology and Evaluation (NITE)

NIH (National Institutes of Health)

NIOSH NIOSH (National Institute for Occupational Safety and Health)
LOLI (List of Lists - An International Chemical Regulatory Database)

NDF no data

NICNAS Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH IDLH Immediately Dangerous to Life or Health

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

PEEN (Pan European Ecological Network)

RTECS (Registry of Toxic Effects of Chemical Substances)
SIDS (Screening Information Dataset) for High Volume Chemicals

SYKE The Finnish Environment Institute (SYKE)
USDA USDA (United States Department of Agriculture)
USDC USDC (United States Department of Commerce)

WHO (World Health Organization)

### 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

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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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