



SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 07/31/2015

Version 2.0

SECTION 1. Identification

Product identifier

Product number	104003
Product name	Formaldehyde solution min. 37% GR for analysis stabilized with about 10% methanol ACS, Reag. Ph Eur

Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Reagent for analysis
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Details of the supplier of the safety data sheet

Company	EMD Millipore Corporation 290 Concord Road, Billerica, MA 01821, United States of America General Inquiries: +1-978-715-4321 Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)
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Emergency telephone	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week
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SECTION 2. Hazards identification

GHS Classification

Flammable liquid, Category 4, H227
Acute toxicity, Category 3, Oral, H301
Acute toxicity, Category 3, Inhalation, H331
Acute toxicity, Category 3, Dermal, H311
Skin corrosion, Category 1B, H314
Skin sensitization, Category 1, H317
Germ cell mutagenicity, Category 2, H341
Carcinogenicity, Category 1B, H350
Specific target organ systemic toxicity - single exposure, Category 1, Eyes, H370
Specific target organ systemic toxicity - single exposure, Category 3, Respiratory system, H335
For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS-Labeling

Hazard pictograms



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Signal Word

Danger

Hazard Statements

H350 May cause cancer.
H227 Combustible liquid.
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H370 Causes damage to organs (Eyes).

Precautionary Statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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/ physician.
P322 Specific measures (see supplemental first aid instructions on this label).
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P361 Remove/ Take off immediately all contaminated clothing.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. Composition/information on ingredients

Chemical nature	Aqueous solution of organic compounds.
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Hazardous ingredients

Chemical Name (Concentration)

CAS-No.

formaldehyde (>= 30 % - < 50 %)

50-00-0

Exact percentages are being withheld as a trade secret.

methanol (>= 10 % - < 30 %)

67-56-1

Exact percentages are being withheld as a trade secret.

SECTION 4. First aid measures

Description of first-aid measures

General advice

First aider needs to protect himself.

Inhalation

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

Skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.

Eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

Ingestion

After swallowing: immediately make victim drink water (two glasses at most). Call a physician immediately. Risk of perforation!

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Irritation and corrosion, Allergic reactions, Cough, Shortness of breath, inebriation, Dizziness, Headache, Drowsiness, agitation, spasms, Impairment of vision, narcosis, Coma
Risk of blindness!

Indication of any immediate medical attention and special treatment needed

Mention methanol.

SECTION 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Water, Carbon dioxide (CO₂), Foam, Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Mixture with combustible ingredients.

Vapors are heavier than air and may spread along floors.

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Forms explosive mixtures with air on intense heating.
Development of hazardous combustion gases or vapors possible in the event of fire.

Advice for firefighters

Special protective equipment for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

|| Advice for non-emergency personnel: Avoid substance contact. Do not breathe vapors, aerosols.
|| Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

Environmental precautions

Do not let product enter drains. Risk of explosion.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up with liquid-absorbent and neutralizing material (e.g. Chemizorb® H⁺, Art. No. 101595).

Dispose of properly. Clean up affected area.

Render harmless: Treatment with excess sodium hydrogen sulfite solution.

SECTION 7. Handling and storage

Precautions for safe handling

Observe label precautions.

Work under hood. Do not inhale substance/mixture. Avoid generation of vapors/aerosols.

Advice on protection against fire and explosion

|| Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

No metal containers.

Tightly closed. Protected from light. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Store at +15°C to +25°C (+59°F to +77°F).

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SECTION 8. Exposure controls/personal protection

Exposure limit(s)

Ingredients

Basis	Value	Threshold limits	Remarks
<i>formaldehyde 50-00-0</i>			
ACGIH	Ceiling Limit Value:	0.3 ppm	
NIOSH/GUIDE	Recommended exposure limit (REL):	0.016 ppm	Expressed as: as formaldehyde
	Recommended exposure limit (REL):	0.016 ppm	
	Ceiling Limit Value and Time Period (if specified):	0.1 ppm	Ceiling Limit Value 15-min
	Ceiling Limit Value and Time Period (if specified):	0.1 ppm	Ceiling Limit Value 15-min Expressed as: as formaldehyde
Z1A	Time Weighted Average (TWA):	0.75 ppm	
	Short Term Exposure Limit (STEL):	2 ppm	
<i>methanol 67-56-1</i>			
ACGIH	Time Weighted Average (TWA):	200 ppm	Can be absorbed through the skin.
	Short Term Exposure Limit (STEL):	250 ppm	
	Skin designation:		
NIOSH/GUIDE	Recommended exposure limit (REL):	200 ppm 260 mg/m ³	Can be absorbed through the skin.
	Skin designation:		
	Short Term Exposure Limit (STEL):	250 ppm 325 mg/m ³	
OSHA_TRANS	PEL:	200 ppm 260 mg/m ³	
Z1A	Time Weighted Average (TWA):	200 ppm 260 mg/m ³	Can be absorbed through the skin.
	Skin designation (Final Rule Limit applies):		
	Short Term Exposure Limit (STEL):	250 ppm 325 mg/m ³	

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

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Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

Eye/face protection

Tightly fitting safety goggles

Hand protection

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0.40 mm
Break through time:	> 480 min

splash contact:

Glove material:	polychloroprene
Glove thickness:	0.65 mm
Break through time:	> 240 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 730 Camatril® -Velours (full contact), KCL 720 Camapren® (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Other protective equipment:

Flame retardant antistatic protective clothing.

Respiratory protection

required when vapors/aerosols are generated.

Recommended Filter type: filter ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are performed according to the instructions of the producer. These measures have to be properly documented.

SECTION 9. Physical and chemical properties

Physical state	liquid
Color	colorless
Odor	stinging
Odor Threshold	0.05 - 0.125 ppm (Formaldehyde)
pH	2.8 - 4.0 at 20 °C (20 °C)

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Melting point	< -15 °C
Boiling point/boiling range	93 - 96 °C (93 - 96 °C) at 1,013 hPa
Flash point	62 °C (62 °C) Method: c.c.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	7 %(V) (Formaldehyde)
Upper explosion limit	73 %(V) (Formaldehyde)
Vapor pressure	No information available.
Relative vapor density	No information available.
Density	1.09 g/cm ³ at 20 °C (20 °C)
Relative density	No information available.
Water solubility	at 20 °C (20 °C) soluble
Partition coefficient: n-octanol/water	No information available.
Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none
Ignition temperature	ca. 300 °C (300 °C) (Formaldehyde)

SECTION 10. Stability and reactivity

Reactivity

Reducing agents
tends to polymerize

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Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical.

Chemical stability

Sensitivity to light

Stabilizer
methanol

Possibility of hazardous reactions

Risk of explosion with:

Nitromethane, performic acid, Acids, phenol, Nitric acid, hydrogen peroxide, peracetic acid, nitrogen dioxide

Exothermic reaction with:

bases, polymerization initiators, nitrides, Sodium hydroxide, potassium permanganate, furfuryl alcohol, Strong oxidizing agents
perchloric acid, with, ANILINE

Generates dangerous gases or fumes in contact with:

hydrochloric acid, magnesium carbonate

Conditions to avoid

Strong heating.
Exposure to light.

Incompatible materials

various metals, various alloys, Mild steel, Copper

Hazardous decomposition products

no information available

SECTION 11. Toxicological information

Information on toxicological effects

Likely route of exposure

Eye contact, Skin contact

Target Organs

head

Respiratory organs

Eyes

Respiratory system

Lungs

Gastro-intestinal system

Skin

Central nervous system

gastrointestinal tract

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Acute oral toxicity

LD50: 212.77 mg/kg

Calculation method

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

absorption

Acute inhalation toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath, Inhalation may lead to the formation of oedemas in the respiratory tract., Possible damages:, damage of respiratory tract

absorption

Acute toxicity estimate: 6.55 mg/l; 4 h ; vapor

Calculation method

Acute dermal toxicity

Acute toxicity estimate : 638.47 mg/kg

Calculation method

Symptoms: Blistering, Fissuring

absorption

Acute toxicity estimate : 638.47 mg/kg

Calculation method

Skin irritation

Mixture causes burns.

Eye irritation

Mixture causes serious eye damage. Lacrimal irritation due to vapors. Risk of blindness!

Sensitization

Mixture may cause an allergic skin reaction.

CMR effects

Carcinogenicity:

Possible carcinogen.

Mutagenicity:

Evidence of genetic defects.

Specific target organ systemic toxicity - single exposure

Target Organs: Eyes

Mixture causes damage to organs.

Target Organs: Respiratory system

Mixture may cause respiratory irritation.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

Carcinogenicity

IARC	Group 1: Carcinogenic to humans	
	formaldehyde	50-00-0
OSHA		
	formaldehyde	50-00-0
NTP	Anticipated carcinogen.	
	formaldehyde	50-00-0
ACGIH	A2: Suspected human carcinogen	
	formaldehyde	50-00-0

Further information

Systemic effects:

inebriation, Dizziness, Headache, Drowsiness, acidosis, drop in blood pressure, agitation, spasms, Impairment of vision, narcosis, Coma

Damage to:

Liver, Kidney, Cardiac, Cornea

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

Ingredients

formaldehyde

Acute oral toxicity

LD50 Rat: 100 mg/kg (Lit.)

Acute inhalation toxicity

Acute toxicity estimate: 3.1 mg/l; vapor

Expert judgment

Acute dermal toxicity

Acute toxicity estimate : 300.1 mg/kg

Expert judgment

methanol

Acute oral toxicity

LDLO human: 143 mg/kg (RTECS)

Acute inhalation toxicity

LC50 Rat: 131.25 mg/l; 4 h ; vapor (ECHA)

Acute dermal toxicity

LD50 Rabbit: ca. 17,100 mg/kg (External MSDS)

Skin irritation

Rabbit

Result: No skin irritation

(ECHA)

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Eye irritation

Rabbit
Result: No eye irritation
(ECHA)

Sensitization

Sensitization test: Guinea pig
Result: negative
Method: OECD Test Guideline 406

Repeated dose toxicity

Rat
male and female
Inhalation
vapor
28 d
daily
NOAEL: 6.66 mg/l
OECD Test Guideline 412
Subacute toxicity

Rat
male and female
Inhalation
365 d
daily
NOAEL: 0.13 mg/l
LOAEL: 1.3 mg/l
OECD Test Guideline 453

Germ cell mutagenicity

Genotoxicity in vivo
Micronucleus test
Mouse
Result: negative
Method: OECD Test Guideline 474

Genotoxicity in vitro

Ames test
Salmonella typhimurium
Result: negative
Method: OECD Test Guideline 471

In vitro mammalian cell gene mutation test

Result: negative
Method: OECD Test Guideline 476

SECTION 12. Ecological information

Ecotoxicity

No information available.

Persistence and degradability

No information available.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

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Additional ecological information

Caustic even in diluted form. Disinfectant effect. Endangers drinking-water supplies if allowed to enter soil and/or waters in large quantities.

Discharge into the environment must be avoided.

Ingredients

formaldehyde

Partition coefficient: n-octanol/water

log Pow: 0.021

(Lit.) Bioaccumulation is not expected.

methanol

Toxicity to fish

flow-through test LC50 *Lepomis macrochirus* (Bluegill sunfish): 15,400 mg/l; 96 h
US-EPA

Toxicity to daphnia and other aquatic invertebrates

EC50 *E.sulcatum*: > 10,000 mg/l; 72 h (Lit.)

EC50 *Daphnia magna* (Water flea): > 10,000 mg/l; 48 h (IUCLID)

Toxicity to algae

static test EC50 *Pseudokirchneriella subcapitata* (green algae): ca. 22,000 mg/l; 96 h
OECD Test Guideline 201

Toxicity to bacteria

EC50 *Pseudomonas fluorescens*: 6,600 mg/l; 16 h (IUCLID)

static test IC50 activated sludge: > 1,000 mg/l; 3 h

Analytical monitoring: yes

OECD Test Guideline 209

Toxicity to fish (Chronic toxicity)

NOEC *Oryzias latipes* (Orange-red killifish): 7,900 mg/l; 200 h
(External MSDS)

Biodegradability

99 %; 30 d

OECD Test Guideline 301D

Readily biodegradable.

Biochemical Oxygen Demand (BOD)

600 - 1,120 mg/g (5 d)

(IUCLID)

Chemical Oxygen Demand (COD)

1,420 mg/g

(IUCLID)

Theoretical oxygen demand (ThOD)

1,500 mg/g

(Lit.)

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Ratio BOD/ThBOD

BOD5 76 %
Closed Bottle test

Partition coefficient: n-octanol/water

log Pow: -0.77
(experimental)
(Lit.) Bioaccumulation is not expected.

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

Stability in water

2.2 yr
reaction with hydroxyl radicals (IUCLID)

SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14. Transport information

Land transport (DOT)

UN number	UN 2209
Proper shipping name	FORMALDEHYDE SOLUTION
Class	8
Packing group	III
Environmentally hazardous	--

Air transport (IATA)

UN number	UN 2209
Proper shipping name	FORMALDEHYDE SOLUTION
Class	8
Packing group	III
Environmentally hazardous	--
Special precautions for user	no

Sea transport (IMDG)

UN number	UN 2209
Proper shipping name	FORMALDEHYDE SOLUTION
Class	8
Packing group	III
Environmentally hazardous	--
Special precautions for user	yes

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EmS F-A S-B

SECTION 15. Regulatory information

United States of America

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

Ingredients

formaldehyde	50-00-0	37 %
methanol	67-56-1	10 %

SARA 302

The following components are subject to reporting levels established by SARA Title III, Section 302:

Ingredients

formaldehyde	50-00-0
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Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Ingredients

formaldehyde

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Ingredients

formaldehyde

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

DEA List I

Not listed

DEA List II

Not listed

US State Regulations

Massachusetts Right To Know

Ingredients

formaldehyde

methanol

Pennsylvania Right To Know

Ingredients

formaldehyde

methanol

New Jersey Right To Know

Ingredients

formaldehyde

methanol

California Prop 65 Components

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

Ingredients

SAFETY DATA SHEET

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Product number
Product name

104003
Formaldehyde solution min. 37% GR for analysis stabilized with about 10%
methanol ACS, Reag. Ph Eur

Version 2.0

methanol

California Prop 65 Components

WARNING: this product contains a chemical known in the State of California to cause cancer.

Ingredients

formaldehyde

Notification status

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL.

SECTION 16. Other information

Training advice

Provide adequate information, instruction and training for operators.

Labeling

Hazard pictograms



Signal Word

Danger

Hazard Statements

H227 Combustible liquid.
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H370 Causes damage to organs (Eyes).

Precautionary Statements

Prevention

P201 Obtain special instructions before use.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

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Restricted to professional users.

Full text of H-Statements referred to under sections 2 and 3.

H227	Combustible liquid.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H370	Causes damage to organs.

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

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Revision Date 07/31/2015

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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