MATERION

SAFETY DATA SHEET

1. Identification

Product identifier Copper Beryllium Wrought Alloy

Other means of identification

SDS number A10

Synonyms Beryllium Copper, Copper Beryllium, BeCu, CuBe, Alloy 10, Alloy 10X (C17500); Alloy 165

(17000); Alloy 170; Alloy 171 (C17450), Alloy C717 (C71700), Brush 60®, BrushForm® 47, BrushForm® 65 (C17460); Alloy 174 (C17400), (C17410), (C17420); Alloy 25, Alloy 190, BrushForm® 290 (C17200); Alloy 3 (C17510); Alloy 310; Alloy 390®; Alloy 390E, MoldMAX®,

PROtherm®, WeldPak®, EtchMet™

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Materion Brush Inc.

Address 6070 Parkland Boulevard

Mayfield Heights, OH 44124

United States

Telephone 1.800.862.4118

Website www.materion.com
E-mail ehs@materion.com
Contact person Theodore Knudson
Emergency phone number 1.800.862.4118

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Sensitization, skin Category 1

Carcinogenicity Category 1

Specific target organ toxicity, repeated

exposure

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May cause cancer by inhalation. May cause allergic skin reaction. May cause allergy or asthma

symptoms or breathing difficulties if inhaled. Causes damage to organs (respiratory system)

Category 1 (Respiratory system)

through prolonged or repeated exposure.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Minimize dust generation and accumulation. Do not breathe dust/fume. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye

protection/face protection. In case of inadequate ventilation wear respiratory protection.

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Response If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable

for breathing. If exposed or concerned: Call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor.

Wash contaminated clothing before reuse.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information Exposure to the elements listed in Section 3 by inhalation, ingestion, and skin contact can occur

when melting, casting, dross handling, pickling, chemical cleaning, heat treating, abrasive cutting, welding, grinding, sanding, polishing, milling, crushing, or otherwise heating or abrading the

surface of this material in a manner which generates particulate.

For further information, please contact the Product Stewardship Department at +1.800.862.4118.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Copper		7440-50-8	96.3 - 99.5
Cobalt		7440-48-4	0 - 2.7
Nickel		7440-02-0	0 - 2.2
Beryllium		7440-41-7	0.15 - 2
Zirconium		7440-67-7	0 - 0.5

4. First-aid measures

Inhalation If symptoms develop move victim to fresh air. For breathing difficulties, oxygen may be necessary.

Breathing difficulty caused by inhalation of particulate requires immediate removal to fresh air. If

breathing has stopped, perform artificial respiration and obtain medical help.

Skin contact Take off contaminated clothing and wash before reuse. Thoroughly wash skin cuts or wounds to

remove all particulate debris from the wound. Seek medical attention for wounds that cannot be thoroughly cleansed. Treat skin cuts and wounds with standard first aid practices such as cleansing, disinfecting and covering to prevent wound infection and contamination before continuing work. Obtain medical help for persistent irritation. Material accidentally implanted or

lodged under the skin must be removed.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids

occasionally. Get medical attention if symptoms persist.

Ingestion If swallowed, seek medical advice immediately and show this container or label. Induce vomiting

immediately as directed by medical personnel. Never give anything by mouth to an unconscious

person.

Most important

symptoms/effects, acute and

delayed

May cause allergic skin reaction. May cause allergic respiratory reaction. Prolonged exposure may

cause chronic effects.

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Indication of immediate medical attention and special treatment needed

Treatment of Chronic Beryllium Disease: There is no known treatment which will cure chronic beryllium disease. Prednisone or other corticosteroids are the most specific treatment currently available. They are directed at suppressing the immunological reaction and can be effective in diminishing signs and symptoms of chronic beryllium disease. In cases where steroid therapy has had only partial or minimal effectiveness, other immunosuppressive agents, such as cyclophosphamide, cyclosporine, or methotrexate, have been used. In view of the potential side effects of all the immunosuppressive medications, including steroids such as prednisone, they should be used only under the direct care of a physician. Other treatment, such as oxygen, inhaled steroids or bronchodilators, may be prescribed by some physicians and can be effective in selected cases. In general, treatment is reserved for cases with significant symptoms and/or significant loss of lung function. The decision about when and with what medication to treat is a judgment situation for individual physicians.

In their 2014 official statement on the Diagnosis and Management of Beryllium Sensitivity and Chronic Beryllium Disease, the American Thoracic Society states that "it seems prudent for workers with BeS to avoid all future occupational exposure to beryllium."

General information

If exposed or concerned: get medical attention/advice. Get medical attention if symptoms occur. Wash contaminated clothing before reuse. As supplied, there is no immediate medical risk with beryllium products in article form. First aid measures provided are related to particulate containing beryllium.

Fire-fighting measures

Suitable extinguishing media

The product is non-combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Do not use water to extinguish fires around operations involving molten metal due to the potential for steam explosions.

Specific hazards arising from the chemical

Not applicable.

damage.

Special protective equipment and precautions for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus. Wear

Fire fighting

suitable protective equipment. Move containers from fire area if you can do so without risk. Water runoff can cause environmental

equipment/instructions

Specific methods

Pressure-demand self-contained breathing apparatus must be worn by firefighters or any other

persons potentially exposed to the particulate released during or after a fire.

Accidental release measures

Personal precautions, protective equipment and emergency procedures

In solid form this material poses no special clean-up problems. Wear appropriate protective equipment and clothing during clean-up.

Methods and materials for containment and cleaning up

Clean up in accordance with all applicable regulations.

Environmental precautions

Avoid release to the environment. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Do not breathe dust/fume. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection. Wash thoroughly after handling. When using, do not eat, drink or smoke. Contaminated work clothing must not be allowed out of the workplace.

Conditions for safe storage, including any incompatibilities

Keep locked-up. Avoid contact with acids and alkalies. Avoid contact with oxidizing agents.

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8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-105	A Specifically Regulated Substances (29 CFR 1910.1001-10	50)
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Components		Туре	Value
Beryllium (CAS 7440-41-7))	STEL	0.002 mg/m3
		TWA	0.0002 mg/m3
US. OSHA Table Z-1 Limit	s for Air Contar	minants (29 CFR 1910.	1000)
Components		Туре	Value Form
Cobalt (CAS 7440-48-4)		PEL	0.1 mg/m3 Dust and fume.
Copper (CAS 7440-50-8)		PEL	1 mg/m3 Dust and mist.
			0.1 mg/m3 Fume.
Nickel (CAS 7440-02-0)		PEL	1 mg/m3
US. ACGIH Threshold Lim	it Values		
Components		Туре	Value Form
Beryllium (CAS 7440-41-7))	TWA	0.00005 mg/m3 Inhalable fraction.
Cobalt (CAS 7440-48-4)		TWA	0.02 mg/m3
Copper (CAS 7440-50-8)		TWA	1 mg/m3 Dust and mist.
			0.2 mg/m3 Fume.
Nickel (CAS 7440-02-0)		TWA	1.5 mg/m3 Inhalable fraction.
Zirconium (CAS 7440-67-7	')	STEL	10 mg/m3
		TWA	5 mg/m3
US. NIOSH: Pocket Guide	to Chemical Ha	azards	
Components		Туре	Value Form
Beryllium (CAS 7440-41-7))	Ceiling	0.0005 mg/m3
Cobalt (CAS 7440-48-4)		TWA	0.05 mg/m3 Dust and fume.
Copper (CAS 7440-50-8)		TWA	1 mg/m3 Dust and mist.
Nickel (CAS 7440-02-0)		TWA	0.015 mg/m3
Zirconium (CAS 7440-67-7	')	STEL	10 mg/m3
		TWA	5 mg/m3
US. California Code of Reg	gulations, Title	8, Section 5155. Airbor	
Components		Туре	Value Form
Beryllium (CAS 7440-41-7))	Ceiling	0.025 mg/m3
		PEL	0.0002 mg/m3
Cobalt (CAS 7440-48-4)		PEL	0.02 mg/m3 Dust and fume.
Copper (CAS 7440-50-8)		PEL	1 mg/m3 Dust and mist.
			0.1 mg/m3 Fume.
Nickel (CAS 7440-02-0)		PEL	0.5 mg/m3
ogical limit values			
	e Indices		
ACGIH Biological Exposur	0		
ACGIH Biological Exposur Components	Value	Determinar	t Specimen Sampling Time
-		Determinar Cobalt	t Specimen Sampling Time Urine *

^{* -} For sampling details, please see the source document.

Exposure guidelines

Based on joint research conducted with the National Institute for Occupational Safety and Health (NIOSH), Materion adopted an 8 element Beryllium Worker Protection Model (BWPM) which includes the use of a recommended exposure guideline (REG) for airborne beryllium of $0.2~\mu g/m3$ as a time-weighted average (TWA) limit for an 8-hour work day. Subsequent NIOSH studies have shown that the BWPM has reduced but not eliminated the risk of beryllium sensitization and chronic beryllium disease (CBD) in workers. Information on the BWPM can be found at www.berylliumsafety.com or by contacting Materion at +1 800.862.4118. In January 2017, OSHA issued a comprehensive occupational health standard for beryllium which includes a Permissible Exposure Limit (PEL) of $0.2~\mu g/m3$ as an 8-hour TWA. In its evaluation, OSHA concluded that "despite the reduction in risk expected with the new PEL, the risks of CBD and cancer to workers with average exposure levels of $0.2~\mu g/m3$ are still clearly significant." (Preamble to Final Rule, Occupational Exposure to Beryllium, Docket #OSHA-H005C-2006-0870, at 316.) Therefore, Materion recommends that beryllium users not only comply with the OSHA Beryllium Standard and carefully apply all elements of the BWPM, but reduce airborne exposures to the lowest feasible level.

The American Conference of Governmental Industrial Hygienists (ACGIH®) is a scientific body that has developed guidelines for all listed substances. In its development documents, the ACGIH® states that "Threshold Limit Values and Biological Exposure Indices represent conditions under which ACGIH® believes that nearly all workers may be repeatedly exposed without adverse health effects. They are not fine lines between safe and dangerous exposures, nor are they a relative index of toxicology."

Specific genetic factors have been identified and shown to increase an individual's susceptibility to CBD. Medical testing is available to detect those genetic factors in individuals.

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Whenever possible, the use of local exhaust ventilation or other engineering controls is the preferred method of controlling exposure to airborne particulate. Where utilized, exhaust inlets to the ventilation system must be positioned as close as possible to the source of airborne generation. Avoid disruption of the airflow in the area of a local exhaust inlet by equipment such as a man-cooling fan. Check ventilation equipment regularly to ensure it is functioning properly. Provide training on the use and operation of ventilation to all users. Use qualified professionals to design and install ventilation systems.

Control parameters

VENTILATION: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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WET METHODS: Machining operations are usually performed under a liquid lubricant/coolant flood which assists in reducing airborne particulate. However, the cycling through of machine coolant containing finely divided particulate in suspension can result in the concentration building to a point where the particulate may become airborne during use. Certain processes such as sanding and grinding may require complete hooded containment and local exhaust ventilation. Prevent coolant from splashing onto floor areas, external structures or operators' clothing. Utilize a coolant filtering system to remove particulate from the coolant.

WORK PRACTICES: Develop work practices and procedures that prevent particulate from coming in contact with worker skin, hair, or personal clothing. If work practices and/or procedures are ineffective in controlling airborne exposure or visual particulate from deposition on skin, hair, or clothing, provide appropriate cleaning/washing facilities. Procedures should be written that clearly communicate the facility's requirements for protective clothing and personal hygiene. These clothing and personal hygiene requirements help keep particulate from being spread to non-production areas or from being taken home by the worker. Never use compressed air to clean work clothing or other surfaces.

Fabrication processes may leave a residue of particulate on the surface of parts, products or equipment that could result in employee exposure during subsequent material handling activities. As necessary, clean loose particulate from parts between processing steps. As a standard hygiene practice, wash hands before eating or smoking.

HOUSEKEEPING: Use vacuum and wet cleaning methods for particulate removal from surfaces. Be certain to de-energize electrical systems, as necessary, before beginning wet cleaning. Use vacuum cleaners with high efficiency particulate air (HEPA). Do not use compressed air, brooms, or conventional vacuum cleaners to remove particulate from surfaces as this activity can result in elevated exposures to airborne particulate. Follow the manufacturer's instructions when performing maintenance on HEPA filtered vacuums used to clean hazardous materials.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear approved safety glasses, goggles, face shield and/or welder's helmet when risk of eye injury is present, particularly during operations that generate dust, mist or fume.

Skin protection

Hand protection

Wear gloves to prevent contact with particulate or solutions. Wear gloves to prevent metal cuts and skin abrasions during handling.

Other

Protective overgarments or work clothing must be worn by persons who may become contaminated with particulate during activities. Skin contact with this material may cause, in some sensitive individuals, an allergic dermal response. Particulate that becomes lodged under the skin has the potential to induce sensitization and skin lesions.

Respiratory protection Wh

When airborne exposures exceed or have the potential to exceed the occupational exposure limits, approved respirators must be used as specified by an Industrial Hygienist or other qualified professional. Respirator users must be medically evaluated to determine if they are physically capable of wearing a respirator. Quantitative and/or qualitative fit testing and respirator training must be satisfactorily completed by all personnel prior to respirator use. Users of tight fitting respirators must be clean shaven on those areas of the face where the respirator seal contacts the face. Use pressure-demand airline respirators when performing jobs with high potential exposures such as changing filters in a baghouse air cleaning device.

Thermal hazards Not applicable.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Physical and chemical properties

Appearance

Physical state Solid.

Form Various shapes.

Color Copper.

Odor Not applicable.

Odor threshold Not applicable.

pH Not applicable.

Melting point/freezing point 1600 - 1960 °F (871.11 - 1071.11 °C) / Not applicable.

Initial boiling point and boiling

range

Not applicable.

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not applicable.

Flammability limit - upper

(%)

Not applicable.

Explosive limit - lower (%) Not applicable.

Explosive limit - upper (%) Not applicable.

Vapor pressure0.77 hPa estimatedVapor densityNot applicable.Relative densityNot applicable.

Solubility(ies)

Solubility (water) Not applicable.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not applicable.

Decomposition temperature Not applicable.

Viscosity Not applicable.

Other information

Density 8.80 g/cm3 estimated

Flammability Not applicable.

Specific gravity 8.8 estimated

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid

Avoid dust formation. Contact with acids. Contact with alkalis.

Incompatible materials

Strong acids, alkalies and oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

May cause sensitization by inhalation. May cause allergy or asthma symptoms or breathing Inhalation

difficulties if inhaled. May cause damage to organs (respiratory system) through prolonged or

repeated exposure.

Skin contact May cause an allergic skin reaction.

Eye contact Not likely, due to the form of the product. Ingestion Not likely, due to the form of the product.

Symptoms related to the physical, chemical and toxicological characteristics Respiratory disorder.

Information on toxicological effects

Acute toxicity May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin

reaction.

Skin corrosion/irritation Not likely, due to the form of the product.

Serious eve damage/eve

irritation

Harmful in contact with eyes.

Respiratory or skin sensitization

ACGIH sensitization

BERYLLIUM AND COMPOUNDS, SOLUBLE AND

Respiratory sensitization

INSOLUBLE COMPOUNDS, AS BE, INHALABLE

FRACTION (CAS 7440-41-7)

HARD METALS CONTAINING COBALT AND

Respiratory sensitization

TUNGSTEN CARBIDE, THORACIC FRACTION, AS CO

(CAS 7440-48-4)

Respiratory sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity Due to lack of data the classification is not possible.

Carcinogenicity Cancer hazard.

IARC Monographs. Overall Evaluation of Carcinogenicity

Beryllium (CAS 7440-41-7) 1 Carcinogenic to humans.

Cobalt (CAS 7440-48-4) 2B Possibly carcinogenic to humans. Nickel (CAS 7440-02-0) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Beryllium (CAS 7440-41-7) Known To Be Human Carcinogen. Nickel (CAS 7440-02-0) Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

Not classified. Reproductive toxicity

Specific target organ toxicity -

single exposure

repeated exposure

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause damage to organs (respiratory system) through prolonged or repeated exposure by Specific target organ toxicity -

inhalation.

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Aspiration hazard Due to lack of data the classification is not possible.

Chronic effects Hazardous by OSHA criteria. May cause damage to organs through prolonged or repeated

exposure.

Further information Symptoms may be delayed.

12. Ecological information

Ecotoxicity No ecotoxicity data noted for the ingredient(s).

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential Not available. Mobility in soil Not available. Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Material should be recycled if possible. Disposal recommendations are based on material as

> supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. When this product as supplied is to be discarded as

waste, it does not meet the definition of a RCRA waste under 40 CFR 261.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations All components are on the U.S. EPA TSCA Inventory List.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Beryllium (CAS 7440-41-7) Listed. Cobalt (CAS 7440-48-4) Listed. Copper (CAS 7440-50-8) Listed. Nickel (CAS 7440-02-0) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

> Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

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SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Beryllium	7440-41-7	0.15 - 2	
Cobalt	7440-48-4	0 - 2.7	
Copper	7440-50-8	96.3 - 99.5	
Nickel	7440-02-0	0 - 2.2	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

No

Beryllium (CAS 7440-41-7) Cobalt (CAS 7440-48-4) Nickel (CAS 7440-02-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Beryllium (CAS 7440-41-7) Listed: October 1, 1987 Cobalt (CAS 7440-48-4) Listed: July 1, 1992 Nickel (CAS 7440-02-0) Listed: October 1, 1989

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Beryllium (CAS 7440-41-7) Cobalt (CAS 7440-48-4) Copper (CAS 7440-50-8) Nickel (CAS 7440-02-0)

16. Other information, including date of preparation or last revision

Issue date 12-01-2015 Revision date 10-10-2017

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Further information Transportation Emergency

> Call Chemtrec at: Domestic: 800.424.9300

International: 703.527.3887

Disclaimer This document has been prepared using data from sources considered to be technically reliable

> and the information is believed to be correct. Materion makes no warranties, expressed or implied, as to the accuracy of the information contained herein. Materion cannot anticipate all conditions under which this information and its products may be used and the actual conditions of use are beyond its control. The user is responsible to evaluate all available information when using this product for any particular use and to comply with all Federal, State, Provincial and Local laws,

statutes and regulations.

Other information Revised information in Section 1.

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