

1. Product and company identification

Product name	Castrol Brake Fluid DOT 4
Product code	466630-JP22
SDS no.	466630
Original preparation date	28/09/2018
Supplier	BP Castrol K.K. 1-11-2, Osaki, Shinagawaku, Tokyo, 141-0032 East Tower 20F, Gate City Osaki Telephone : 03-5719-7860 (days & hours of operation : Monday - Friday, 09:00 - 17:00) Carechem: 0120-015-230 (Operation time: 24 hrs)
EMERGENCY TELEPHONE NUMBER	Carechem: 0120-015-230 (Operation time: 24 hrs)

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

Identified uses	Brake fluids. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
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Uses advised against

Use advised against: Consult with experts for use other than relevant identified use

2. Hazards identification

GHS Classification	ACUTE TOXICITY (oral) - Category 4 SERIOUS EYE DAMAGE - Category 1 REPRODUCTIVE TOXICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
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GHS label elements

Hazard pictograms



Signal word

Danger

Hazard statements

H302 - Harmful if swallowed.
H318 - Causes serious eye damage.
H361 - Suspected of damaging fertility or the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

General

P102 - Keep out of reach of children.
P101 - If medical advice is needed, have product container or label at hand.

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		Original preparation date	8/3/2017	ENGLISH
			Build 6.2	(ENGLISH)
			(Japan)	

2. Hazards identification

Prevention	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P260 - Do not breathe vapour. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
Response	P308 + P313 - IF exposed or concerned: Get medical attention. P301 + P312, P330 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
Storage	P405 - Store locked up.
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	Defatting to the skin.

3. Composition/information on ingredients

Substance/mixture Mixture
Polyalkylene glycol ethers

Ingredient name	%	CAS number	Official Gazette notice reference number	
			CSCL	ISHL
2-(2-(2-butoxyethoxy)ethoxy)ethanol	≥50 - ≤75	143-22-6	2-436; 7-97	2-(8)-188
2,2'-oxybisethanol	≥25 - ≤50	111-46-6	2-415	(2)-415
tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	≥10 - ≤25	30989-05-0	2-2120	Not available.
dicyclohexylamine	≤0.30	101-83-7	3-2259; 3-2686	Not available.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Applicability to local regulations are determined with consideration of reactions of constituents included in the formulation. Please see section 15 for regulatory information.

4. First aid measures

Description of necessary first aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention immediately. Chemical burns must be treated promptly by a physician.
Inhalation	If inhaled, remove to fresh air. Get medical attention immediately.

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4. First aid measures

Skin contact	Get medical attention immediately. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Clean shoes thoroughly before reuse. Chemical burns must be treated promptly by a physician.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Get medical attention immediately. Chemical burns must be treated promptly by a physician. Get medical attention, informing the doctor that a product containing diethylene glycol has been ingested and specific treatment may be required.

[Most important symptoms/effects, acute and delayed](#)

See Section 11 for more detailed information on health effects and symptoms.

[Indication of immediate medical attention and special treatment needed, if necessary](#)

Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
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[Notes to physician](#)

Specific treatments	Diethylene Glycol: Gastric irrigation, ethanol or fomepizole may have value in treatment. Consult physician.
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5. Firefighting measures

[Extinguishing media](#)

Suitable	In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.
Not suitable	Do not use water jet.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide)
Special protective actions for fire-fighters	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
Special protective equipment for fire-fighters	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

[Personal precautions, protective equipment and emergency procedures](#)

For non-emergency personnel	Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment. Floors may be slippery; use care to avoid falling.
For emergency responders	Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

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6. Accidental release measures

Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.

In the case of spillage at sea approved dispersants may be used where authorised by the appropriate government/regulatory authorities.

7. Handling and storage

Protective measures

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Not suitable

Prolonged exposure to elevated temperature

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
None.	

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8. Exposure controls/personal protection

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards.

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Biological exposure indices

No exposure indices known.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Butyl gloves. Neoprene gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Eye protection

Chemical splash goggles.

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8. Exposure controls/personal protection

Skin protection

Use of protective clothing is good industrial practice. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state

Liquid.

Colour

Yellow. [Light]

Odour

Not available.

pH

7.9 to 9.9

Melting point/freezing point

Not available.

Softening point

Not available.

Boiling point, initial boiling point, and boiling range

Not available.

Flash point

Open cup: 142°C (287.6°F) [Cleveland]

Fire point

Not available.

Evaporation rate

Not available.

Flammability

Not available.

Lower and upper explosive (flammable) limits

Not available.

Vapour pressure

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
2-(2-(2-butoxyethoxy)ethoxy)ethanol	0.01	0.0013				
2,2'-oxybisethanol	0.01	0.0013				
tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] orthoborate	0.9	0.12		3.08	0.41	OECD 104

Relative vapour density

Not available.

Relative Density

Not available.

Density

1.031 to 1.041 g/cm³ [20°C (68°F)]

Auto-ignition temperature

Not available.

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9. Physical and chemical properties

Ingredient name	°C	°F	Method
2-(2-(2-butoxyethoxy)ethoxy)ethanol	202	395.6	DIN 51794
2,2' -oxybisethanol	229	444.2	DIN EN 14522-S

Decomposition temperature	Not available.
Lower and upper explosion limit/flammability limit	Not available.
Volatility	Not available.
Critical temperature	Not available.
Oxidising properties	Not available.
Viscosity	Kinematic: 2.1 mm ² /s (2.1 cSt) at 100°C
Drop Point	Not available.
Density	1031 to 1041 kg/m ³ (1.031 to 1.041 g/cm ³) at 20°C

Solubility(ies)

Media	Result
water	Soluble

Solubility at room temperature (g/l)	Not available.
Partition coefficient (LogKow)	Not applicable.
Remarks	Not available.
<u>Particle characteristics</u>	
Median particle size	Not applicable.

10. Stability and reactivity

Reactivity	No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.
Chemical stability	The product is stable.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions to avoid	Avoid all possible sources of ignition (spark or flame).
Incompatible materials	Reactive or incompatible with the following materials: oxidising materials.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Acute toxicity

No data available

Irritation/Corrosion

No data available

Sensitiser

No data available

Carcinogenicity

No data available

Mutagenicity

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11. Toxicological information

No data available

[Teratogenicity](#)

No data available

[Reproductive toxicity](#)

[Aspiration hazard](#)

No data available

[Information on likely routes of exposure](#)

Routes of entry anticipated: Inhalation, Eyes.
Routes of entry not anticipated: Dermal.

[Potential acute health effects](#)

[Eye contact](#)

Causes serious eye damage.

[Inhalation](#)

May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system.

[Skin contact](#)

No known significant effects or critical hazards.

[Ingestion](#)

Harmful if swallowed. May cause burns to mouth, throat and stomach. Diethylene glycol: Ingestion of diethylene glycol can cause metabolic acidosis, kidney damage, central nervous system depression, and convulsions. The estimated human lethal dose is approximately 100 ml (3.4 ounces for an adult).

[Symptoms related to the physical, chemical and toxicological characteristics](#)

[Eye contact](#)

Adverse symptoms may include the following:
pain
watering
redness

[Inhalation](#)

May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs.

[Skin contact](#)

Adverse symptoms may include the following:
reduced foetal weight
increase in foetal deaths
skeletal malformations

[Ingestion](#)

Adverse symptoms may include the following:
stomach pains
nausea or vomiting
reduced foetal weight
increase in foetal deaths
skeletal malformations

[Delayed and immediate effects as well as chronic effects from short and long-term exposure](#)

[Skin contact](#)

Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

[Potential chronic health effects](#)

[General](#)

May cause damage to organs through prolonged or repeated exposure. (kidney)

[Carcinogenicity](#)

No known significant effects or critical hazards.

[Mutagenicity](#)

No known significant effects or critical hazards.

[Teratogenicity](#)

Suspected of damaging the unborn child.

[Developmental effects](#)

Birth defects and decreased fetal weight have been observed in laboratory animals fed diethylene glycol in large amounts repeatedly during pregnancy.

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11. Toxicological information

Fertility effects

No known significant effects or critical hazards.

[Numerical measures of toxicity](#)

[Acute toxicity estimates](#)

Route	ATE value
Oral	2000 mg/kg

12. Ecological information

Environmental effects

No known significant effects or critical hazards.

Persistence and degradability

Expected to be biodegradable.

[Bioaccumulative potential](#)

Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

Mobility

Spillages may penetrate the soil causing ground water contamination.

Hazardous to the ozone layer

Not applicable.

Other ecological information

Spills on water will disperse throughout the water phase. Unlikely to be harmful to aquatic organisms unless glycol concentration is high.

13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

	IMDG	IATA
UN number	Not regulated.	Not regulated.
UN proper shipping name	-	-
Transport hazard class(es)	-	-
Packing group	-	-
Environmental hazards	No.	No.

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14. Transport information

Additional information

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Special precautions for user Not available.

[Transport in bulk according to IMO instruments](#)

Not available.

15. Regulatory information

[Fire Service Law](#)

Category	Substance name/Type	Danger category	Signal word	Designated quantity
Category IV	Class III petroleum	III	Flammable - Keep Fire Away	4000 L

[Industrial Safety and Health Act](#)

Special Organic Solvents, etc. Not available.

[Substances requiring labelling](#)

None of the components are listed.

[Chemicals requiring notification](#)

None of the components are listed.

[Carcinogens based on Article 577-2 of the Ordinance on ISH](#)

Ingredient name	%	Status	Reference number
None of the components are listed.			

[Carcinogens based on Paragraph 3, Article 28 of the Law](#)

Ingredient name	%	Status	Reference number
None of the components are listed.			

[Pollutant Release and Transfer Registers \(PRTR\) - Until March 2023](#)

Ingredient name	%	Measured as	Status	Reference number
Boron compounds	18	Boron	Class 1	405

[Pollutant Release and Transfer Registers \(PRTR\) - From April 2023](#)

Ingredient name	%	Measured as	Status	Reference number
Boron compounds	18	Boron	Class 1	405

[Other regulations](#)

Australia inventory (AIC)	All components are listed or exempted.
Canada inventory	All components are listed or exempted.
China inventory (IECSC)	All components are listed or exempted.
Japan inventory (CSCL)	All components are listed or exempted.

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15. Regulatory information

Korea inventory (KECI)	All components are listed or exempted.
Philippines inventory (PICCS)	All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI)	All components are listed or exempted.
United States inventory (TSCA 8b)	All components are active or exempted.
REACH Status	For the REACH status of this product please consult your company contact, as identified in Section 1.

16. Other information

[History](#)

Date of issue/Date of revision	2024 April 23.
Date of previous issue	2023 November 13.
Prepared by	Product Stewardship

The Japan key to abbreviations is as follows:

GHS = Global Harmonized System
CAS Number = Chemical Abstracts Service Registry Number
ISHL = Industrial Safety and Health Law
OSHL = Occupational Safety and Health Law
PRTR = Law Concerning Reporting of the Release into the Environment of Specific Chemical Substances and Promoting Improvements in Their Management
ENCS = Existing and New Chemical Substances
METI = Ministry of Economy, Trade and Industry
OEL = Occupational Exposure Limit
JOSH = Japan Society for Occupational Health
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]
TWA = Time weighted average
STEL = Short term exposure limit
IMDG = International Maritime Organization Rules, rules governing shipment of goods by water.
IATA = International Air Transport Association, the organization
UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.
Varies = may contain one or more of the following 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64742-01-4, 64742-44-5, 64742-45-6, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-63-8, 64742-65-0, 64742-70-7, 72623-85-9, 72623-86-0, 72623-87-1

[Procedure used to derive the classification](#)

Classification	Justification
ACUTE TOXICITY (oral) - Category 4	Calculation method
SERIOUS EYE DAMAGE - Category 1	Calculation method
REPRODUCTIVE TOXICITY - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Calculation method

 Indicates information that has changed from previously issued version.

[Notice to reader](#)

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16. Other information

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from BP Group.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

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