


# SAFETY DATA SHEET

## Section 1. Identification

<b>Product identifier</b>	: ADDITIN RC 9200
<b>Material Number</b>	: 05175801
<b>Identified uses</b>	: Additive for lubricants
<b>Supplier/Manufacturer</b>	: LANXESS Corporation Rhein Chemie Additives 111 RIDC Park West Drive Pittsburgh, PA 15275-1112 USA
	For information: US/Canada (800) LANXESS International +1 412 809 1000
<b>In case of emergency</b>	: Chemtrec (800) 424-9300 International (703) 527-3887 Lanxess Emergency Phone (800) 410-3063.

## Section 2. Hazards identification

<b>HAZCOM Standard Status</b>	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Physical state</b>	: Liquid.
<b>Color</b>	: Dark Brown.
<b>Classification of the substance or mixture</b>	: SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION. - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 5.7%
<b>Hazard pictograms</b>	: 
<b>Signal word</b>	: Danger
<b>Hazard statements</b>	: Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation.
<b>Hazard Not Otherwise Classified (HNOC)</b>	: None known.
<b>Precautionary statements</b>	
<b>Prevention</b>	: Wear protective gloves and eye/face protection. Use only in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
<b>Response</b>	: Get medical attention if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
<b>Storage</b>	: Store locked up.
<b>Disposal</b>	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

## Section 2. Hazards identification

**Supplemental label elements** : Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

Ingredient name	%	CAS number
Zinc Alkyldithiophosphate	25 - 50	4259-15-8
Butylated Hydroxytoluene	<10	128-39-2
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	≤5	93820-57-6
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	≤5	72623-86-0

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**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 and hence require reporting in this section.**

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

## Section 4. First aid measures

### Description of first aid measures

- Eye contact** : Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. In case of contact with eyes, flush eyes with plenty of water for at least 30 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or respiratory arrest occurs, provide artificial respiration, or oxygen by a trained professional, using a pocket type respirator.
- Skin contact** : In case of contact, flush skin with plenty of water for at least 30 minutes. Get medical attention immediately. Immediately remove contaminated clothing and shoes. Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

- Eye contact** : Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.

## Section 4. First aid measures

- Inhalation** : May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### Potential chronic health effects

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

- Notes to physician** : Treat symptomatically. No specific treatment.
- Protection of first-aiders** : If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire. In case of fire, use water spray (fog), foam or dry chemical.
- Unsuitable extinguishing media** : None known.

- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst. Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. Water runoff from fire fighting may be corrosive. Vapors may form explosive mixtures with air.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
sulfur oxides  
phosphorus oxides

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

- Personal precautions, protective equipment and emergency procedures** : 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 spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

- Environmental precautions** : Avoid dispersal of spilled 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 materials for containment and cleaning up** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Wash spillages into an effluent treatment plant or proceed as follows. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. Prevent entry into sewers, water courses, basements or confined areas.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. Remove contaminated clothing and protective equipment before entering eating areas. Workers should wash hands and face before eating, drinking and smoking. Put on appropriate personal protection equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of skin sensitization to this product should not be employed in any process in which this product is used.
- 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. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Section 8. Exposure controls/personal protection

### Occupational exposure limits

Ingredient name	Exposure limits
Zinc Alkyldithiophosphate	None
Butylated Hydroxytoluene	None
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	None
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	<b>ACGIH TLV (United States, 3/2015).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction <b>OSHA PEL (United States, 2/2013).</b> TWA: 5 mg/m <sup>3</sup> 8 hours.

- Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### Personal protection

- 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. A NIOSH approved air purifying respirator with organic vapor cartridges and particulate prefilter can be used to minimize exposure.
- Skin protection** : Permeation resistant clothing and foot protection. Permeation resistant gloves.
- Eye/face protection** : chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. If contact with product is possible, wear safety glasses with side shields.
- Medical Surveillance** : Not available.

## Section 9. Physical and chemical properties

<b>Physical state</b>	: Liquid.
<b>Color</b>	: Dark Brown.
<b>Odor</b>	: Characteristic.
<b>Odor threshold</b>	: Not available.
<b>pH</b>	: Not available.
<b>Boiling point</b>	: Not available.
<b>Melting point</b>	: Not available.
<b>Flash point</b>	: Closed cup: 150°C (302°F)
<b>Evaporation rate</b>	: Not available.
<b>Explosion limits</b>	: Not available.
<b>Vapor pressure</b>	: Not available.
<b>Density</b>	: 1 g/cm <sup>3</sup>
<b>Specific gravity (Relative density)</b>	: Not available.
<b>Solubility in water</b>	: Insoluble in the following materials: cold water
<b>Partition coefficient: n-octanol/water</b>	: Not available.
<b>Vapor density</b>	: Not available.
<b>Viscosity</b>	: Kinematic: 75 mm <sup>2</sup> /s
<b>Auto-ignition temperature</b>	: Not available.
<b>Decomposition temperature</b>	: >80°C

## Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	: Reducing agents, oxidizing agents, acids and bases
<b>Hazardous decomposition products</b>	: Spontaneous decomposition may start at 150°C. After prolonged heating, slow decomposition may start at above 80°C. Formation of alkylmercaptans, dialkylsulphides, traces of hydrogen sulphide possible.

## Section 11. Toxicological information

<b>Information on the likely routes of exposure</b>	: Dermal contact. Eye contact. Inhalation. Ingestion.
<b><u>Potential acute health effects</u></b>	
<b>Eye contact</b>	: Causes serious eye damage.
<b>Inhalation</b>	: May cause respiratory irritation.
<b>Skin contact</b>	: May cause an allergic skin reaction.
<b>Ingestion</b>	: No known significant effects or critical hazards.
<b><u>Symptoms related to the physical, chemical and toxicological characteristics</u></b>	
<b>Eye contact</b>	: Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.
<b>Inhalation</b>	: May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.
<b>Skin contact</b>	: No specific data.
<b>Ingestion</b>	: No specific data.
<b><u>Potential chronic health effects</u></b>	

## Section 11. Toxicological information

### Short term exposure

**Potential immediate effects** : Not available.

### Long term exposure

**Potential delayed effects** : Not available.

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Test
Zinc Alkyldithiophosphate	LD50 Oral	Rat	3.1 g/kg	-	-
Butylated Hydroxytoluene	LD50 Oral	Rat	>5000 mg/kg	-	-
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	LD50 Oral	Rat	>5000 mg/kg	-	OECD 401 Acute Oral Toxicity
Zinc Alkyldithiophosphate	LD50 Dermal	Rabbit	>5 g/kg	-	-
Butylated Hydroxytoluene	LD50 Dermal	Rabbit	>10 g/kg	-	-
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	LD50 Dermal	Rabbit	>2000 mg/kg	-	402 Acute Dermal Toxicity
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	LC50 Inhalation Dusts and mists	Rat	>5.53 mg/l	4 hours	OECD 403 Acute Inhalation Toxicity

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation	Reversibility
Butylated Hydroxytoluene	Skin - Moderate irritant	Rat	-	0.5 Milliliters	-	-

#### Conclusion/Summary

**Skin** : Zinc Alkyldithiophosphate:Non-irritating  
Butylated Hydroxytoluene:Moderate irritant

**Eyes** : Zinc Alkyldithiophosphate:Causes serious eye damage.  
Butylated Hydroxytoluene:Non-irritating (Rabbit)

#### Sensitization

**Skin** : Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts :Sensitizing

#### Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	Negative - Unreported -	Human	-	-

**Conclusion/Summary** : Butylated Hydroxytoluene:No known significant effects or critical hazards.

## Section 11. Toxicological information

Product/ingredient name	CAS #	IARC	NTP	OSHA
Zinc Alkyldithiophosphate	4259-15-8	Not classified.	Not classified.	Not classified.
Butylated Hydroxytoluene	128-39-2	Not classified.	Not classified.	Not classified.
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	93820-57-6	Not classified.	Not classified.	Not classified.
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	Not classified.	Not classified.	Not classified.

### Reproductive toxicity

**Conclusion/Summary** : Butylated Hydroxytoluene: No known significant effects or critical hazards.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Zinc Alkyldithiophosphate	Category 3	Not applicable.	Respiratory tract irritation
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	Category 3	Not applicable.	Respiratory tract irritation

### Acute toxicity estimates

Route	ATE value (Acute Toxicity Estimates)
Oral	6696.4 mg/kg

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Test	Result	Species	Exposure
Zinc Alkyldithiophosphate	-	EC50 1 to 5 mg/l	Algae - Pseudokirchneriella subcapitata	96 hours
	-	EC50 1 to 1.5 mg/l	Daphnia - Daphnia magna	48 hours
	static test	LC50 1 to 5 mg/l	Fish - Pimephales promelas	96 hours
Butylated Hydroxytoluene	-	Acute EC50 >1000 mg/l	Bacteria	3 hours
	-	Acute EC50 0.45 mg/l	Daphnia	48 hours
	-	Acute LC50 1.4 mg/l	Fish - Pimephales promelas	96 hours
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	OECD 202 <i>Daphnia</i> sp. Acute Immobilization Test	Acute EC50 >10000 mg/l	Crustaceans - Daphnia magna	48 hours
	OECD 203 Fish, Acute Toxicity Test	Acute LC50 >100 mg/l	Fish - Pimephales promelas	96 hours
	OECD 201 Alga, Growth Inhibition Test	Acute NOEC >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	OECD 211 <i>Daphnia Magna</i> Reproduction Test	Chronic NOEC 10 mg/l	Crustaceans - Daphnia magna	21 days

**Conclusion/Summary** : Not available.

### Persistence and degradability

**Conclusion/Summary** : Not available.

## Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Butylated Hydroxytoluene Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	- -	- -	Not readily Not readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Zinc Alkyldithiophosphate	3.59	-	low
Butylated Hydroxytoluene	4.92	-	high

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.





**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. 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 spilled material and runoff and contact with soil, waterways, drains and sewers. Waste disposal should be in accordance with existing federal state, provincial and or local environmental controls laws.



**RCRA classification** : : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

## Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>DOT Classification</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC DITHIOPHOSPHATE, ALKYLPHENOLS)	9	III	 	8, 146, 335, IB3, T4, TP1, TP29 The U.S. Department of Transportation regulations in 49CFR 172.102 permit this material to ship as an Environmentally Hazardous Substance, Class 9, using Special Provision 146.
<b>IMDG Class</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC DITHIOPHOSPHATE, ALKYLPHENOLS)	9	III	 	<b>Emergency schedules (EmS)</b> F-A, S-F



## Section 14. Transport information

<b>IATA-DGR Class</b>	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC DITHIOPHOSPHATE, ALKYLPHENOLS)	9	III	 	<b>Passenger aircraft</b> 964: 450 L  <b>Cargo aircraft</b> 964: 450 L
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PG\* : Packing group

**RQ** : 0 lbs

## Section 15. Regulatory information

**SARA 311/312** : Immediate (acute) health hazard

**SARA Title III Section 302 Extremely Hazardous Substances** : None

	<u>Ingredient name</u>	<u>CAS number</u>	<u>Concentration (%)</u>
<b>SARA Title III Section 313 Toxic Chemicals</b> :	Zinc Alkyldithiophosphate	4259-15-8	25 - 50

	<u>Ingredient name</u>	<u>CAS number</u>	<u>RQ</u>
<b>US EPA CERCLA Hazardous Substances (40 CFR 302.4)</b> :	Zinc Alkyldithiophosphate	4259-15-8	Included in the regulation but with no data values. See regulation for further details.

### State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

<u>Ingredient name</u>	<u>CAS number</u>	<u>State Code</u>	<u>Concentration (%)</u>
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	MA - S, NJ - HS, PA - RTK HS	10 - ≤25
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	MA - S, NJ - HS	≤10
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	MA - S, NJ - HS	≤5
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	MA - S, NJ - HS, PA - RTK HS	≤5
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	MA - S, NJ - HS	≤5
Zinc Alkyldithiophosphate	4259-15-8	NJ - HS, PA - RTK HS	25 - 50
Butylated Hydroxytoluene	128-39-2		<10
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0		≤5

Massachusetts Substances: MA - S

Massachusetts Extraordinary Hazardous Substances: MA - Extra HS

New Jersey Hazardous Substances: NJ - HS

Pennsylvania RTK Hazardous Substances: PA - RTK HS

Pennsylvania Special Hazardous Substances: PA - Special HS

### California Prop. 65

## Section 15. Regulatory information

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

**U.S. Toxic Substances Control Act** : Listed on the TSCA Inventory.

## Section 16. Other information

<b>Hazardous Material Information System</b>	<b>Health</b>	3
	<b>Flammability</b>	1
	<b>Physical hazards</b>	0

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme  
\*=Chronic

The customer is responsible for determining the PPE code for this material. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

**National Fire Protection Association (U.S.A.)** :



0= Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Our method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided as a customer service.

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Product Safety and Regulatory Affairs

Indicates information that has changed from previously issued version.

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