

Product name: AEROSIL® OX 50

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: AEROSIL® OX 50

Other means of identification

CAS Number: 112945-52-5, 7631-86-9

Recommended restrictions

Recommended use: Antiblocking agents
Fillers.
Restrictions on use: Food contact
Not determined.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation
2 Turner Place
Piscataway, NJ 08854
USA

Telephone : +1 732 981 5000

E-mail : product-regulatory-services@evonik.com

Emergency telephone number:

24 Hour Emergency Telephone : +1 800 424 9300 (CHEMTREC - US & CANADA)
800 681 9531 (CHEMTREC MEXICO)
+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazards for the product as supplied

Not classified

Hazard(s) not otherwise classified (HNOC): None.

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary Statements

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3. Composition/information on ingredients

Substances

Chemical Identity	Common name and synonyms	CAS No./Unique ID	Content in percent (%) [*]	Trade Secret
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)		112945-52-5 [*]	<=100%	TSC

^{*} Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments: The components are not hazardous or are below required disclosure limits.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

Inhalation:	In case product dust is released: Possible discomfort: cough, sneezing Move to fresh air.
Skin Contact:	Wash off with plenty of water and soap.
Eye contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed. Obtain medical attention. No information available.
Ingestion:	Clean mouth with water and drink afterwards plenty of water. After absorbing large amounts of substance / In case of discomfort: Supply with medical care.
Personal Protection for First-aid Responders:	No data available.

Most important symptoms and effects, both acute and delayed

Symptoms:	None known.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	No hazards which require special first aid measures.
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5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, foam, CO₂, dry powder. Adapt fire-extinguishing measures to surroundings

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Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture: None known.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for firefighters: As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear. In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid dust formation.

Accidental release measures: No data available.

Methods and material for containment and cleaning up: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Environmental Precautions: Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

7. Handling and storage

Handling

Technical measures: Ensure suitable suction/aeration at the work place and with operational machinery.

Local/Total ventilation: No data available.

Safe handling advice: Avoid dust formation. Take precautionary measures against static discharges. Use with adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. If the workplace threshold limit value is exceeded and/or the substance is released, use appropriate respiratory protection.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Take precautionary measures against static discharges. Keep tightly closed in a dry and cool place. Store in accordance with local/regional/national/international

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regulations.

Safe packaging materials:

No data available.

8. Exposure controls/personal protection

Control Parameters
Occupational Exposure Limits

Components	Type	Form of exposure	Exposure Limit Values	Source
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	PEL		6 mg/m ³	
	PEL		20 millions of particles per cubic foot of air	

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

Ensure suitable suction/aeration at the work place and with operational machinery. Local ventilation if necessary.

Individual protection measures, such as personal protective equipment (PPE)
Eye/face protection:

Wear safety glasses with side shields. In case dusts are formed, wear close fitting protective goggles.

Skin Protection
Hand Protection:

Additional Information: Use impermeable gloves.

Skin and Body Protection:

Safety showers and eye showers should be easily accessible. In order to determine further specifications applicable to the personal protection equipment, a hazard assessment according to the OSHA standards (29 CFR 1910.132) for personal protection equipment (PPE) is recommended before the product is used.

Respiratory Protection:

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Hygiene measures:

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. To ensure ideal skin protection: use super fatted soaps and skin cream for skin care. Wash contaminated clothing before reuse.

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9. Physical and chemical properties**Information on basic physical and chemical properties****Appearance**

Physical state:	solid
Form:	Powder
Color:	White
Odor:	Odorless
Odor Threshold:	Not applicable
Melting Point:	Approximate 3,092 °F/ 1,700 °C
Boiling Point:	No data available.
Flammability:	Not applicable
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	Not applicable
Explosive limit - lower:	Not applicable
Flash Point:	Not applicable (solid)
Auto-ignition temperature:	Not applicable
Decomposition Temperature:	> 3,632 °F/> 2,000 °C
pH:	3.8 - 4.8 (68 °F/20 °C) Concentration: 40 g/l Suspension
Viscosity	
Dynamic viscosity:	Not applicable (solid)
Kinematic viscosity:	Not applicable (solid)
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	hardly soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	Approximate 2.2 g/cm ³ (68 °F/20 °C)
Bulk density:	No data available.
Vapor density (air=1):	No data available.
Particle characteristics:	No data available.

Other information

Explosive properties:	Not to be expected in view of the structure
Oxidizing properties:	Not to be expected in view of the structure
Self-ignition:	Not capable of spontaneous combustion or heating.

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Peroxides:	Not applicable
Evaporation Rate:	Not applicable
Minimum ignition energy:	Not applicable

10. Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No hazardous reactions are known if properly handled and stored.
Conditions to avoid:	Operations that create dust. None known.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	None known.

11. Toxicological information

General information: Silicosis or other product specific illnesses of the respiratory tract have not been reported.

Information on likely routes of exposure

Inhalation:	Information on effects are given below.
Skin Contact:	Information on effects are given below.
Eye contact:	Information on effects are given below.
Ingestion:	Information on effects are given below.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Acute toxicity (list all possible routes of exposure)**Oral**

Product: LD 50, Rat, Female, Male, > 5,000 mg/kg, OECD 401, Based on available data, the classification criteria are not met.

Components: Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) LD 50, Rat, Female, Male, > 5,000 mg/kg, OECD 401

Dermal

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Product: LD 50, Rabbit, > 5,000 mg/kg, Based on available data, the classification criteria are not met.

Components:
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) LD 50, Rabbit, > 5,000 mg/kg

Inhalation

Product: LC 50, Rat, Female, Male, 4 h, > 5.01 mg/l, OECD 436, Dust and mist, Based on available data, the classification criteria are not met.

Components:
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) LC 50, Rat, Female, Male, 4 h, > 5.01 mg/l, Dust and mist, OECD 436 Vapour, Not toxic after single exposure, Not applicable

Repeated dose toxicity

Product: NOAEL Rat, Male, Oral, 28 day, 7 days a week, \geq 1,000 mg/kg, No negative effects.

Components:
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) NOAEL Rat, Male, Oral, 28 day, 7 days a week, \geq 1,000 mg/kg, No negative effects.

Skin Corrosion/Irritation

Product: Not irritant, OECD 404, (Rabbit), Based on available data, the classification criteria are not met.

Components:
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) Not irritating, OECD 404, Rabbit

Serious Eye Damage/Eye Irritation

Product: Not irritant, analogous OECD method, Rabbit, Based on available data, the classification criteria are not met.

Components:
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) Not irritating, analogous OECD method, Rabbit

Respiratory or Skin Sensitization

Product: Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin sensitizer.
Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.

Components:
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin sensitizer.
Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.

Carcinogenicity

Product: No evidence that cancer may be caused.

Components:
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) No evidence that cancer may be caused.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

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ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

no evidence of mutagenic effects

In vitro**Product:** gene mutation test, OECD 471: , negative
gene mutation test, OECD 490: , negative
Chromosomal aberration, OECD 473: , negative**Components:**Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) gene mutation test, OECD 471: , negative
gene mutation test, OECD 490: , negative
Chromosomal aberration, OECD 473: , negative**In vivo****Product:** Chromosomal aberration, OECD 475, Oral, Rat, Male, negative**Components:**

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) Chromosomal aberration, OECD 475, Oral, Rat, Male, negative

Reproductive toxicity**Effects on fertility****Product:** Remarks: no evidence of reproductiontoxic properties**Components:**

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) Remarks: no evidence of reproductiontoxic properties

Effects on fetal development

Not classified based on available data.

Reproductive toxicity - Assessment**Product:** Reproductive toxicity: no evidence of reproductiontoxic properties**Components:**

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) Reproductive toxicity: no evidence of reproductiontoxic properties

Specific Target Organ Toxicity - Single Exposure**Product:** no evidence for hazardous properties**Components:**

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) no evidence for hazardous properties

Specific Target Organ Toxicity - Repeated Exposure

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Product: no evidence for hazardous properties

Components:

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) no evidence for hazardous properties

Aspiration Hazard

Product: Not applicable

Components:

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) Not applicable

Information on health hazards

Other hazards

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

12. Ecological information

Ecotoxicity:

Toxicity to Aquatic Plants

Product: EC 50, Desmodesmus subspicatus (green algae), 72 h, > 173 mg/l, OECD 201

Components:

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) EC 50, Desmodesmus subspicatus (green algae), 72 h, > 173 mg/l, OECD 201

Toxicity to microorganisms

Product: EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209

Components:

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209

Acute hazards to the aquatic environment:

Fish

Product: LC 50, (Brachydanio rerio), 96 h, > 10,000 mg/l/OECD 203, The reported toxic effects relate to the nominal concentration.

Components:

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) LC 50, (Brachydanio rerio), 96 h, > 10,000 mg/l/OECD 203, The reported toxic effects relate to the nominal concentration.

Aquatic Invertebrates

Product: EC 50, Daphnia magna, 24 h, > 1,000 mg/l/OECD 202, The reported toxic effects relate to the nominal concentration.

Components:

Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) EC 50, Daphnia magna, 24 h, > 1,000 mg/l/OECD 202, The reported toxic effects relate to the nominal concentration.

Chronic hazards to the aquatic environment:

Fish

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No data available.

Aquatic Invertebrates

No data available.

Persistence and Degradability**Biodegradation****Product:** The methods for determining biodegradability are not applicable to inorganic substances.**Components:** Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) The methods for determining biodegradability are not applicable to inorganic substances.**BOD/COD Ratio**

No data available.

Bioaccumulative potential**Bioconcentration Factor (BCF)****Product:** Not to be expected.**Components:** Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) Not to be expected.**Partition Coefficient n-octanol / water (log Kow)****Product:** Not applicable**Components:** Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) Not applicable**Mobility in soil:****Product:** No remarkable mobility in soil is to be expected.**Components:** Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) No remarkable mobility in soil is to be expected.**Results of PBT and vPvB assessment:**

No data available.

Other adverse effects:**Additional ecological information****Product:** The data we have at our disposal do not necessitate identification concerning environmental hazard.**13. Disposal considerations****Disposal methods:** Waste must be disposed of in accordance with federal, state, provincial and local regulations.**Contaminated Packaging:** Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

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14. Transport information

Domestic regulation

49 CFR

Not regulated as a dangerous good

Remarks : Not dangerous according to transport regulations.

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. Regulatory information

US Federal Regulations

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721 and 725, Subpt E)

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Not classified

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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US. EPCRA (SARA Title III) Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

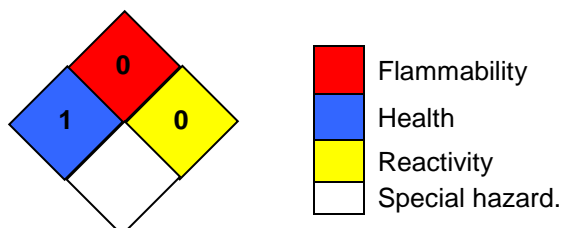
None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

US State Regulations
US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

Inventory Status:

Australia Industrial Chem. Act (AIIC):	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
Ontario Inventory:	On or in compliance with the inventory
Japan (ENCS) List:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Mexico INSQ:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory Pre-registration is requested for specific importer.
US TSCA Inventory:	On or in compliance with the inventory Commercial Status: Active
Switzerland New Subs Notified/Registered:	On or in compliance with the inventory
Vietnam National Chemical Inventory:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	On or in compliance with the inventory EU-REACH compliant for Evonik Operations GmbH and its affiliates as EU manufacturer/EU importer.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory

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


Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Version #: 2.0

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Revision Date: 09/02/2025**Date of first report version:** 04/09/2019**Abbreviations and acronyms:**: Source: 54 FR 2701
/ PEL: Permissible exposure limit:

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further Information: No data available.**Revision Information** Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Disclaimer:

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