

# SAFETY DATA SHEET

Version 7.2 Revision Date 08/30/2024 Print Date 08/31/2024

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name : Styrene, ReagentPlus®, contains 4-tert-

butylcatechol as stabilizer, ≥99%

Product Number : S4972

Brand : Sigma-Aldrich Index-No. : 601-026-00-0 CAS-No. : 100-42-5

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

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption

(40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by

MilliporeSigma.

## 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

## **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226 Acute toxicity, Inhalation (Category 4), H332

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Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Reproductive toxicity (Category 2), H361

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 Specific target organ toxicity - repeated exposure, Inhalation (Category 1), hearing organs,

Aspiration hazard (Category 1), H304

Short-term (acute) aquatic hazard (Category 2), H401 Long-term (chronic) aquatic hazard (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 GHS Label elements, including precautionary statements

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. recegram	
Signal Word	Danger
Hazard Statements	
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs (hearing organs) through prolonged
	or repeated exposure if inhaled.
H401	Toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
Precautionary Statements	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and
	understood.
P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No
	smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 P243	Use only non-sparking tools.
P260	Take precautionary measures against static discharge.  Do not breathe mist or vapors.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face
	protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated
	clothing. Rinse skin with water/ shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable



P305 + P351 + P338	for breathing. Call a POISON CENTER/ doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
	rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant
	foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS Lachrymator.

# **SECTION 3: Composition/information on ingredients**

## 3.1 Substances

Formula : C8H8

Molecular weight : 104.15 g/mol CAS-No. : 100-42-5 EC-No. : 202-851-5 Index-No. : 601-026-00-0

Component	Classification Concentra			
styrene				
•	Flam. Liq. 3; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; Repr. 2; STOT SE 3; STOT RE 1; Asp. Tox. 1; Aquatic Acute 2; Aquatic Chronic 3; H226, H332, H315, H319, H361, H335, H372, H304, H401, H412	<= 100 %		

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **SECTION 4: First aid measures**

## 4.1 Description of first-aid measures

## **General advice**

Show this material safety data sheet to the doctor in attendance.



#### If inhaled

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

#### In case of skin contact

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

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

## 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

# 4.3 Indication of any immediate medical attention and special treatment needed No data available

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

## Suitable extinguishing media

Carbon dioxide (CO2) Foam Dry powderCarbon dioxide (CO2) Foam Dry powder

## Unsuitable extinguishing media

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

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Container explosion may occur under fire conditions., Vapors may form explosive mixture with air.

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire.

## **5.3** Advice for firefighters

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

## 5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.



#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

## 6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

#### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

## 6.4 Reference to other sections

For disposal see section 13.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

## Advice on safe handling

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

## Advice on protection against fire and explosion

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

## **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.

**Storage stability**Recommended storage temperature

2 - 8 °C

Light sensitive.

#### Storage class

Storage class (TRGS 510): 3: Flammable liquids

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated



# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

Ingredients with workplace control parameters

Ingredients with	Workplace	control par	unicter 5			
Component	CAS-No.	Value	Control	Basis		
			parameters			
styrene	100-42-5	TWA	50 ppm	USA. NIOSH Recommended		
			215 mg/m3	Exposure Limits		
		ST	100 ppm	USA. NIOSH Recommended		
			425 mg/m3	Exposure Limits		
		TWA	100 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2		
		CEIL	200 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2		
		Peak	600 ppm	USA. Occupational Exposure Limits (OSHA) - Table Z-2		
		PEL	50 ppm	California permissible exposure		
			215 mg/m3	limits for chemical		
				contaminants (Title 8, Article		
				107)		
	Remarks	Skin	1			
		STEL	100 ppm	California permissible exposure		
			425 mg/m3	limits for chemical		
				contaminants (Title 8, Article		
		CI:		107)		
		Skin	T=00	To us		
		С	500 ppm	California permissible exposure		
				limits for chemical		
				contaminants (Title 8, Article 107)		
		Skin				
		TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)		
		Ototoxicant				
		Confirmed animal carcinogen with unknown relevance to humans				
		STEL	20 ppm	USA. ACGIH Threshold Limit Values (TLV)		
		Ototoxican	Ototoxicant			
		Confirmed animal carcinogen with unknown relevance to				
		humans				

Biological occupational exposure limits					
Component	CAS-No.	Parameters	Value	Biological	Basis
				specimen	
styrene	100-42-5	Mandelic acid plus phenylglyox ylic acid	150mg/g creatinin e	Urine	ACGIH - Biological Exposure Indices (BEI)
	Remarks	End of shift (As soon as possible after exposure ceases)			

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Styrene	20 μg/l	Urine	ACGIH -
			Biological
			Exposure Indices
			(BEI)
End of shift (As soon as possible after exposure ceases)			

## 8.2 Exposure controls

## **Appropriate engineering controls**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

## Personal protective equipment

## **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

## Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact Material: Viton®

Minimum layer thickness: 0.7 mm Break through time: 480 min

Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm Break through time: 30 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Full contact Material: Viton®

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Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm Break through time: 30 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

## **Body Protection**

Flame retardant antistatic protective clothing.

## Respiratory protection

Recommended Filter type: Filter type ABEK

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented. required when vapours/aerosols are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

## **Control of environmental exposure**

Do not let product enter drains. Risk of explosion.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

a) Appearance Form: liquid, clear

Color: colorless, to, yellow

b) Odor sweet

c) Odor Threshold No data availabled) pH No data available

e) Melting Freezing point: -31.0 °C (-23.8 °F)

point/freezing point

f) Initial boiling point 145.0 - 146.0 °C 293.0 - 294.8 °F at 1,013 hPa and boiling range

g) Flash point 32.0 °C (89.6 °F) - closed cup

h) Evaporation rate No data availablei) Flammability (solid, No data available gas)

j) Upper/lower Upper explosion limit: 8.9 %(V) flammability or Lower explosion limit: 1.1 %(V)

flammability or Lower explosion limit: 1.1 %(V) explosive limits

k) Vapor pressure 6.67 hPa at 20 °C (68 °F)

I) Vapor density 3.6



m) Density 0.906 g/cm3 at 20 °C (68 °F)

Relative density 0.9 - 0.9120 °C

n) Water solubility 0.32 g/l at 25 °C (77 °F)

o) Partition coefficient: log Pow: 2.96 at 25 °C (77 °F) - Bioaccumulation is not

n-octanol/water expected.

p) Autoignition 490.0 °C (914.0 °F)

temperature

q) Decomposition No data available

temperature

r) Viscosity No data available

s) Explosive properties Not classified as explosive.

t) Oxidizing properties none

# 9.2 Other safety information

Relative vapor 3.6

density

# **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

Vapor/air-mixtures are explosive at intense warming.

## 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

Contains the following stabilizer(s):

4-tert-butylpyrocatechol (<=0.005 %)

## 10.3 Possibility of hazardous reactions

Exothermic reaction with:

chlorosulfonic acid

Oxidizing agents

Chlorine

with

Iron

Violent polymerization may be caused by:

aluminium chloride

sodium

Risk of explosion with:

Strong acids

polymerisation initiators

Peroxides

Oxygen

with

Heat.



#### 10.4 Conditions to avoid

Heating.

## 10.5 Incompatible materials

No data available

# 10.6 Hazardous decomposition products

In the event of fire: see section 5

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

# **Acute toxicity**

Oral: No data available

LD50 Oral - Rat - male - 5,000 mg/kg

Remarks: (ECHA)

Symptoms: Irritation of mucous membranes

Inhalation: No data available

LC50 Inhalation - Rat - 4 h - 11.8 mg/l - vapor

Remarks: (ECHA)

Symptoms: Possible damages:, mucosal irritations Acute toxicity estimate Dermal - 2,500 mg/kg

(Calculation method)

LD50 Dermal - Rat - male and female - > 2,000 mg/kg

(OECD Test Guideline 402)

## Skin corrosion/irritation

Remarks: Causes skin irritation.

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

#### Serious eye damage/eye irritation

Remarks: Causes serious eye irritation.

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

## Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

## **Germ cell mutagenicity**

Laboratory experiments have shown mutagenic effects.

Test Type: sister chromatid exchange assay

Test system: Human lymphocytes

Metabolic activation: without metabolic activation

Method: OECD Test Guideline 479

Result: positive Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

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Result: negative

Test Type: Chromosome aberration test in vitro

Test system: Human lymphocytes

Metabolic activation: without metabolic activation

Method: OECD Test Guideline 473

Result: positive

Test Type: Micronucleus test

Species: Mouse

Cell type: Red blood cells (erythrocytes)
Application Route: inhalation (vapor)
Method: OECD Test Guideline 474

Result: negative

Test Type: unscheduled DNA synthesis assay

Species: Mouse Cell type: Liver cells

Application Route: inhalation (vapor) Method: OECD Test Guideline 486

Result: negative Carcinogenicity

This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

IARC: 2A - Group 2A: Probably carcinogenic to humans (styrene)

NTP: RAHC - Reasonably anticipated to be a human carcinogen (styrene)

OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

## **Reproductive toxicity**

Suspected of damaging the unborn child.

# Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation. - Nose

## Specific target organ toxicity - repeated exposure

Inhalation - Causes damage to organs through prolonged or repeated exposure.

- hearing organs

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

# Aspiration hazard

Aspiration may cause pulmonary edema and pneumonitis.

#### 11.2 Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Dermatitis, Central nervous system depression, Nausea, Dizziness, Headache, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Endocrine system. -

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MILLIPORE

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Toxicity to fish flow-through test LC50 - Pimephales promelas (fathead minnow) - 10

mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia

flow-through test EC50 - Daphnia magna (Water flea) - 4.7 mg/l -

and other aquatic invertebrates

(OECD Test Guideline 202)

Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (green algae) -

4.9 mg/l - 72 h

(US-EPA)

Toxicity to bacteria static test EC50 - activated sludge - ca. 500 mg/l - 30 min

(OECD Test Guideline 209)

Toxicity to daphnia

semi-static test NOEC - Daphnia magna (Water flea) - 1.01 mg/l -

and other aquatic 21 d

invertebrates(Chronic (OECD Test Guideline 211)

toxicity)

## 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d

Result: 70.9 % - Readily biodegradable.

Remarks: (ECHA)

# 12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Endocrine disrupting properties

No data available

#### 12.7 Other adverse effects

No data available



#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

## **Product**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

## **SECTION 14: Transport information**

DOT (US)

UN number: 2055 Class: 3 Packing group: III

Proper shipping name: Styrene monomer, stabilized

Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

**IMDG** 

UN number: 2055 Class: 3 Packing group: III EMS-No: F-E, S-D

Proper shipping name: STYRENE MONOMER, STABILIZED

**IATA** 

UN number: 2055 Class: 3 Packing group: III

Proper shipping name: Styrene monomer, stabilized

## **SECTION 15: Regulatory information**

## **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
styrene	100-42-5	1000	1000

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

# SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 : Fire Hazard

**Hazards** Acute Health Hazard Chronic Health Hazard

**SARA 313** : The following components are subject to reporting

levels established by SARA Title III, Section 313:

styrene 100-42-5 >= 90 - <= 100 %

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

styrene 100-42-5 >= 90 - <= 100 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

styrene 100-42-5 >= 90 - <= 100 %

#### Clean Water Act

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

styrene 100-42-5 >= 90 - <= 100 %

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

styrene 100-42-5 >= 90 - <= 100 %

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

This product does not contain any priority pollutants related to the U.S. Clean Water Act

# **US State Regulations**

# **Massachusetts Right To Know**

styrene 100-42-5

Pennsylvania Right To Know

styrene 100-42-5

**Maine Chemicals of High Concern** 

styrene 100-42-5

**Vermont Chemicals of High Concern** 

styrene 100-42-5

**Washington Chemicals of High Concern** 

styrene 100-42-5

# California Prop. 65

WARNING: This product can expose you to chemicals including styrene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

## The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

## **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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## **SECTION 16: Other information**

#### **Further information**

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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