

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended

**Honeywell**  
**Fluka™**

## Ammonium hydroxide solution

30501-5L

Version 1.6

Revision Date 19.01.2024

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

#### 1.1. Product identifier

Product name : Ammonium hydroxide solution  
SDS-number : 000000020199  
Type of product : Mixture  
Remarks : SDS according to Art. 31 of Regulation (EC) 1907/2006.

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

Use of the Substance/Mixture : Laboratory chemicals  
Uses advised against : none

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

Company : Honeywell International Inc.      Honeywell International, Inc.  
115 Tabor Road                                      115 Tabor Road  
07950-2546 Morris Plains                        Morris Plains, NJ 07950-2546  
USA    USA

Telephone :  
For further information, please contact: : SafetyDataSheet@Honeywell.com

#### 1.4. Emergency telephone number

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)  
+1-303-389-1414 (Medical)  
: Poison Control Center:  
United Kingdom: (+44) 844 892 0111

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**REGULATION (EC) No 1272/2008**

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Skin corrosion Category 1B

H314 Causes severe skin burns and eye damage.

Specific target organ toxicity - single exposure Category 3 - Respiratory system

H335 May cause respiratory irritation.

Short-term (acute) aquatic hazard Category 1

H400 Very toxic to aquatic life.

Long-term (chronic) aquatic hazard Category 2

H411 Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

#### REGULATION (EC) No 1272/2008

Hazard pictograms



Signal word

: Danger

Hazard statements

: H314

Causes severe skin burns and eye damage.

H335

May cause respiratory irritation.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statements

: P260

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P284

Wear respiratory protection.

P301 + P330 + P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302 + P352

IF ON SKIN: Wash with plenty of water.

P304 + P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338

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.

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Hazardous components : Ammonia, aqueous solution  
which must be listed on the  
label

### 2.3. Other hazards

Avoid inhalation of vapour or mist. Causes respiratory tract irritation.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Chemical name                | CAS-No.<br>Index-No.<br>REACH Registration<br>Number<br>EC-No. | Classification 1272/2008  | Concentration          | Remarks                     |
|------------------------------|--|---|------------------------|-----------------------------|
| Ammonia, aqueous<br>solution | 1336-21-6<br>007-001-01-2<br>215-647-6                         | Skin Corr. 1B; H314<br>STOT SE 3; H335;<br>Respiratory system<br>Aquatic Acute 1; H400<br>Aquatic Chronic 2; H411 | $\geq 25\%$ - $< 50\%$ | STOT SE 3; H335: $\geq 5\%$ |

Remaining components of this product are non-hazardous and/or are present at concentrations below reportable limits.

Occupational Exposure Limit(s), if available, are listed in Section 8.

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:

First aider needs to protect himself. Immediately take off contaminated clothing and rinse body with plenty of water.

#### Inhalation:

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Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician immediately.

*Skin contact:*

Wash off immediately with soap and plenty of water. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician.

*Eye contact:*

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

*Ingestion:*

A person suspected to have swallowed the substance who is conscious should be given water to drink. Take to a doctor immediately together with this card

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

Inhaled corrosive substances can lead to a toxic oedema of the lungs., Causes skin burns., Small amounts splashed into eyes can cause irreversible tissue damage and blindness., If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach., May cause respiratory impairment and lung damage.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

*Suitable extinguishing media:*

Water spray

Foam

Carbon dioxide (CO<sub>2</sub>)

Dry powder

*Extinguishing media which shall not be used for safety reasons:*

High volume water jet

#### 5.2. Special hazards arising from the substance or mixture

Ammonia gas may be liberated at high temperatures.

Vapours may form explosive mixtures with air.

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

No unprotected exposed skin areas.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.

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

Soak up with inert absorbent material.

Pick for disposal in tightly closed containers

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Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus.

### 6.4. Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

*Advice on safe handling:*

Exhaust ventilation at the object is necessary. Use only alkali-proof equipment.

*Advice on protection against fire and explosion:*

Keep away from heat and sources of ignition. Ammonia gas may be liberated at high temperatures. Vapours may form explosive mixture with air. The product itself does not burn.

*Hygiene measures:*

Keep working clothes separately. Separate rooms are required for washing, showering and changing clothes. Take off all contaminated clothing immediately. Wash hands before breaks and at the end of workday. When using do not eat or drink.

### 7.2. Conditions for safe storage, including any incompatibilities

*Further information on storage conditions:*

Store in original container. Keep in a dry, cool and well-ventilated place.

### 7.3. Specific end use(s)

no additional data available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits:

| Components                | Basis / Value type | Value / Form of exposure       | Exceeding Factor | Remarks    |
|---------------------------|--------------------|--------------------------------|------------------|------------|
| Ammonia, aqueous solution | EH40 OES<br>TWA    | 18 mg/m <sup>3</sup><br>25 ppm |                  |            |
| Ammonia, aqueous solution | EH40 OES<br>STEL   | 25 mg/m <sup>3</sup><br>35 ppm |                  |            |
| Ammonia, aqueous solution | EH40 WEL<br>STEL   | 25 mg/m <sup>3</sup><br>35 ppm |                  |            |
| Ammonia, aqueous solution | EH40 WEL<br>TWA    | 18 mg/m <sup>3</sup><br>25 ppm |                  |            |
| Ammonia, aqueous solution | EU ELV<br>TWA      | 14 mg/m <sup>3</sup><br>20 ppm |                  | Indicative |
| Ammonia, aqueous solution | EU ELV<br>STEL     | 36 mg/m <sup>3</sup><br>50 ppm |                  | Indicative |

EH40 OES - UK. COSHH Exposure Limit Values

TWA - Time weighted average

EH40 OES - UK. COSHH Exposure Limit Values

STEL - Short term exposure limit

#### DNEL/ PNEC-Values

| Component                 | End-use/impact                            | Exposure duration | Value                  | Exposure routes | Remarks |
|---------------------------|---|-------------------|------------------------|-----------------|---------|
| Ammonia, aqueous solution | Workers /<br>Acute<br>systemic<br>effects |                   | 6,8mg/kg<br>bw/d       | Skin contact    |         |
| Ammonia, aqueous solution | Workers /<br>Acute<br>systemic<br>effects |                   | 47,6 mg/m <sup>3</sup> | Inhalation      |         |

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|                           |   |  |                        |              |  |
|---------------------------|---|--|------------------------|--------------|--|
| Ammonia, aqueous solution | Workers /<br>Long-term<br>systemic<br>effects   |  | 47,6 mg/m <sup>3</sup> | Inhalation   |  |
| Ammonia, aqueous solution | Workers /<br>Acute local<br>effects             |  | 36 mg/m <sup>3</sup>   | Inhalation   |  |
| Ammonia, aqueous solution | Workers /<br>Long-term<br>local effects         |  | 14 mg/m <sup>3</sup>   | Inhalation   |  |
| Ammonia, aqueous solution | Workers /<br>Long-term<br>systemic<br>effects   |  | 6,8mg/kg<br>bw/d       | Skin contact |  |
| Ammonia, aqueous solution | Consumers /<br>Long-term<br>systemic<br>effects |  | 23,8 mg/m <sup>3</sup> | Inhalation   |  |
| Ammonia, aqueous solution | Consumers /<br>Acute<br>systemic<br>effects     |  | 23,8 mg/m <sup>3</sup> | Inhalation   |  |
| Ammonia, aqueous solution | Consumers /<br>Long-term<br>local effects       |  | 2,8 mg/m <sup>3</sup>  | Inhalation   |  |
| Ammonia, aqueous solution | Consumers /<br>Acute local<br>effects           |  | 7,2 mg/m <sup>3</sup>  | Inhalation   |  |
| Ammonia, aqueous solution | Consumers /<br>Long-term<br>systemic<br>effects |  | 6,8mg/kg<br>bw/d       | Skin contact |  |
| Ammonia, aqueous solution | Consumers /<br>Acute<br>systemic<br>effects     |  | 6,8mg/kg<br>bw/d       | Skin contact |  |
| Ammonia, aqueous solution | Consumers /<br>Long-term<br>systemic<br>effects |  | 6,8mg/kg<br>bw/d       | Ingestion    |  |
| Ammonia, aqueous solution | Consumers /                                     |  | 6,8mg/kg               | Ingestion    |  |



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|  |                        |  |      |  |  |
|--|------------------------|--|------|--|--|
|  | Acute systemic effects |  | bw/d |  |  |
|--|------------------------|--|------|--|--|

| Component                 | Environmental compartment / Value | Remarks |
|---------------------------|-----------------------------------|---------|
| Ammonia, aqueous solution | Fresh water: 0,00135 mg/l         |         |
| Ammonia, aqueous solution | Marine water: 0,00135 mg/l        |         |
| Ammonia, aqueous solution | Soil: 0,0221 mg/kg dw             |         |

### 8.2. Exposure controls

#### Occupational exposure controls

Do not breathe vapours/dust.

Take off all contaminated clothing immediately.

Wash hands before breaks and at the end of workday.

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

#### Engineering measures

Use with local exhaust ventilation.

#### Personal protective equipment

*Respiratory protection:*

In the case of vapour formation use a respirator with an approved filter.

Recommended Filter type:

Ammonia/amines type

*Respiratory protection:*

In the case of vapour formation use a respirator with an approved filter.

*Hand protection:*

Glove material: Viton®

Break through time: > 480 min

Glove thickness: 0,7 mm

Vitoject® 890

Gloves must be inspected prior to use.

Replace when worn.

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Remarks: Supplementary note: The specifications are based on information and tests from similar substances by analogy.  
Due to varying conditions ( e.g. temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.  
Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.  
Manufacturer's directions for use should be observed because of great diversity of types .  
Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

*Eye protection:*  
Safety goggles

*Skin and body protection:*  
Protective suit

### Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- |                                  |   |                         |
|----------------------------------|---|-------------------------|
| (a) Physical state               | : | liquid                  |
| (b) Colour                       | : | colourless              |
| (c) Odour                        | : | stinging<br>ammoniacal  |
| (d) Melting point/freezing point | : | -92 °C                  |
| (e) Boiling point/boiling range  | : | 37,7 °C<br>at 1.013 hPa |
| (f) Flammability                 | : | Not applicable          |
| (g) Lower and upper              | : | Lower explosion limit   |

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|  |  |
|--|--|
| explosion limit                                | 15 %(V)                                    |
|  | : Upper explosion limit<br>30,2 %(V)       |
| (h) Flash point                                | : Not applicable                           |
| (i) Auto-ignition<br>temperature               | : 630 °C<br>651 °C                         |
| (j) Decomposition<br>temperature               | : No decomposition if used as directed.    |
| (k) pH   | : alkaline<br>(undiluted)                  |
| (l) Viscosity, kinematic                       | : 1,3 mm <sup>2</sup> /s                   |
| (m) Solubility(ies)                            | : Water solubility:<br>completely miscible |
| (n) Partition coefficient: n-<br>octanol/water | : log Pow -0,64                            |
| (o) Vapour pressure                            | : 1.900 hPa<br>at 50 °C                    |
|  | 837 hPa<br>at 20 °C                        |
| (p) Density and / or relative<br>density       | : ca. 0,90 g/cm <sup>3</sup><br>at 20 °C   |
| (q) Bulk density                               | : Not applicable                           |
| (q) Relative vapour density                    | : No data available                        |
| (r) Particle characteristics                   | : No data available                        |

### 9.2 Other Information

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Information regarding ignition temperature, applies only to the pure substance.

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : No data available

Viscosity, dynamic : No data available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under recommended storage conditions.

#### 10.2. Chemical stability

No decomposition if used as directed.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4. Conditions to avoid

Protect from heat/overheating.

#### 10.5. Incompatible materials

Acids

Halogens

#### 10.6. Hazardous decomposition products

Ammonia gas may be liberated at high temperatures.

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### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### (a) Acute toxicity

*Acute oral toxicity:*

Toxicity is determined by the corrosivity of the product.

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*Acute dermal toxicity:*

Toxicity is determined by the corrosivity of the product.

*Acute inhalation toxicity:*

Toxicity is determined by the corrosivity of the product.

*Acute toxicity (other routes of administration):*

No data available

**(b) Skin corrosion/irritation:**

Species: Rabbit

Classification: Corrosive

Method: OECD Test Guideline 404

**(c) Serious eye damage/eye irritation:**

Species: Rabbit

Classification: Corrosive

**(d) Respiratory or skin sensitisation:**

Species: Guinea pig

Classification: non-sensitizing

**(e) Germ cell mutagenicity:**

Test Method: Ames test

Result: negative

Method: OECD Test Guideline 471

Test Method: Micronucleus test

Species: Mouse

Method: OECD Test Guideline 474

Test substance: REACH dossier "read-across"

Result: negative

**(g) Reproductive toxicity:**

Method: OECD Test Guideline 422

Species: Rat

Route of Application: Oral

General Toxicity - Parent: NOAEL: 408 mg/kg bw/d

Species: Rabbit

Route of Application: Oral

Remarks: Did not show teratogenic effects in animal experiments.

**(h) STOT-single exposure:**

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No data available

### **(i) STOT - repeated exposure:**

Species: Rat

Application Route: Inhalation

Exposure time: 50 d

NOAEL: 0,035 mg/kg

### **(j) Aspiration hazard:**

No data available

## 11.2. Information on other hazards

*Endocrine disrupting properties*

No data available

*Other information:*

Risk of serious damage to the lungs (by inhalation).

## SECTION 12: Ecological information

### 12.1. Toxicity

*Toxicity to fish:*

LC50

Species: *Oncorhynchus mykiss* (rainbow trout)

Value: 0,89 mg/l

Exposure time: 96 h

LC50

Species: Fish

Value: 0,89 mg/l

Exposure time: 96 h

Test substance: Ammonia

Lowest Observed Effect Concentration

Species: *Oncorhynchus mykiss* (rainbow trout)

Value: 0,022 mg/l

Exposure time: 73 d

Test substance: REACH dossier "read-across"

*Toxicity to aquatic plants:*

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EC50

static test

Species: Chlorella vulgaris (Fresh water algae)

Value: 2.700 mg/l

Exposure time: 18 d

*Toxicity to aquatic invertebrates:*

LC50

Species: Daphnia magna (Water flea)

Value: 101 mg/l

Exposure time: 48 h

*Chronic toxicity to aquatic invertebrates:*

NOEC

Species: Daphnia magna (Water flea)

Value: 0,79 mg/l

Test substance: REACH dossier "read-across"

### 12.2. Persistence and degradability

*Biodegradability:*

Not applicable

### 12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

Substance is not persistent, bioaccumulative, and toxic (PBT).

Substance is not very persistent and very bioaccumulative (vPvB).

### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

Do not flush into surface water or sanitary sewer system.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

*Product:*

Dispose according to legal requirements.

*Packaging:*

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

*Further information:*

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

For personal protection see section 8.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR/RID:2672

IMDG:2672

IATA:2672

#### 14.2 UN proper shipping name

ADR/RID:AMMONIA SOLUTION

IMDG:AMMONIA SOLUTION

IATA:Ammonia solution

#### 14.3 Transport hazard class(es)

ADR/RID:8

IMDG: 8

IATA: 8

#### 14.4 Packaging group

ADR/RID:III

IMDG: III

IATA: III

#### 14.5 Environmental hazards

ADR/RID: yes

Marine pollutant: yes

#### 14.6 Special precautions for user

IMDG Code segregation group (SGG18) – ALKALIS,

#### 14.7 Maritime transport in bulk according to IMO instruments



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No data available

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

| Basis  | Value  | Remarks  |
|--|--|--|
| Directive 2012/18/EC<br>Listed in Regulation : E1: Hazardous to the aquatic environment<br>Number in Regulation: 1.3.1 | <b>Quantity:</b> 100.000 kg<br><b>Quantity:</b> 200.000 kg |  |
| Substances of very high concern (SVHC)   |  | This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq 0.1$ % (w/w). |

#### Other inventory information

US. Toxic Substances Control Act  
On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended  
On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)  
All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List  
On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)  
On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)  
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC)  
On the inventory, or in compliance with the inventory

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New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand  
On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI)  
On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

### Text of H-statements referred to under heading 3

Ammonia, aqueous solution : H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

### Further information

All directives and regulations refer to amended versions.  
Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

#### Abbreviations:

EC European Community  
CAS Chemical Abstracts Service  
DNEL Derived no effect level  
PNEC Predicted no effect level  
vPvB Very persistent and very bioaccumulative substance  
PBT Persistent, bioaccumulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

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materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

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