# **SAFETY DATA SHEET**



## according to WHMIS 2015 and ANSI Z400.1-2010

Contact VM 2000 Cyanoacrylate Adhesive

# Section 1. Identification

Product identifier : Contact VM 2000 Cyanoacrylate Adhesive

Product code : 124000

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

Identified uses

Adhesives

Supplier's details : WEICON GmbH & Co. KG

Königsberger Str. 255 48157 Münster

Germany

Phone: +49 251 93220 Fax: +49(0)251 / 9322 - 244 Internet: www.weicon.de

e-mail address of person responsible for this SDS

: msds@weicon.de

#### **National contact**

WEICON Canada Inc. 20 Steckle Place, Unit 20 Kitchener, Ontario N2E 2C3, CA

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Emergency telephone

: +1 866 928 0789 (24h - Toll free)

number

TRANSPORT EMERGENCY CONTACT :+1 866 928 0789 ((24h - Toll free)

# Section 2. Hazard identification

Classification of the substance or mixture : SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

### **GHS label elements**

Hazard pictograms :





Signal word : Warning

**Hazard statements** : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer.

**Precautionary statements** 

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# Section 2. Hazard identification

**Prevention**: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P280 - Wear protective gloves, protective clothing and eye or face protection.

P271 - Use only outdoors or in a well-ventilated area.

P261 - Avoid breathing vapor.

P264 - Wash thoroughly after handling.

**Response**: P308 + P313 - IF exposed or concerned: Get medical advice or attention.

P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

**Storage**: P405 - Store locked up.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

**Disposal** : P501 - Dispose of waste according to applicable legislation.

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	CAS number
ethyl 2-cyanoacrylate	≥80	7085-85-0
1,4-dihydroxybenzene	≥0.1 - ≤1	123-31-9

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

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

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

# Section 4. First-aid measures

#### Description of necessary first aid measures

Eye contact : Immediately

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate

mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. 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. In case of inhalation of decomposition products in a fire, symptoms may

waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance

for 48 hours.

**Skin contact**: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear

gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before

reuse. Clean shoes thoroughly before reuse.

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# Section 4. First-aid measures

### Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. 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. Get medical attention. 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.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact : Causes serious eye irritation.Inhalation : May cause respiratory irritation.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

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

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

The exposed persor

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

thoroughly with water before removing it, or wear gloves.

### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### Extinguishing media

Notes to physician

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

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.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

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# Section 5. Fire-fighting measures

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

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**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

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

# Section 7. Handling and storage

### Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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.

Advice on general occupational hygiene Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. 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. See Section 10 for incompatible materials before handling or use.

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# Section 8. Exposure controls/personal protection

#### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
ethyl 2-cyanoacrylate	CA Alberta Provincial (Canada, 6/2018).  8 hrs OEL: 0.2 ppm 8 hours. 8 hrs OEL: 1 mg/m³ 8 hours.  CA Ontario Provincial (Canada, 6/2019).  TWA: 0.2 ppm 8 hours.  CA Quebec Provincial (Canada, 6/2021).  [Cyanides] Absorbed through skin.  STEV: 10 ppm, (as CN) 15 minutes.  STEV: 11 mg/m³, (as CN) 15 minutes.  CA Saskatchewan Provincial (Canada, 7/2013).  STEL: 0.6 ppm 15 minutes.  TWA: 0.2 ppm 8 hours.  CA British Columbia Provincial (Canada, 6/2021). [cyanoacrylates, ethyl and methyl] Skin sensitizer. Inhalation sensitizer.  TWA: 0.2 ppm 8 hours.
1,4-dihydroxybenzene	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 2 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 6/2021). Skin sensitizer. TWA: 1 mg/m³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 1 mg/m³ 8 hours. CA Quebec Provincial (Canada, 6/2021). Skin sensitizer. TWAEV: 1 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 4 mg/m³ 15 minutes. TWA: 2 mg/m³ 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.

# **Environmental exposure controls**

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

### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. 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.

# Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

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# Section 8. Exposure controls/personal protection

### **Skin protection**

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should

> be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended: 1 - 4 hours

(breakthrough time): nitrile rubber; 4 - 8 hours (breakthrough time): Viton®/butyl

**Body protection** Personal protective equipment for the body should be selected based on the task

being performed and the risks involved and should be approved by a specialist

before handling this product.

: Appropriate footwear and any additional skin protection measures should be Other skin protection

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

: Based on the hazard and potential for exposure, select a respirator that meets the Respiratory protection appropriate standard or certification. Respirators must be used according to a

respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapor (Type AX) and particulate filter

# Section 9. Physical and chemical properties

#### **Appearance**

**Physical state** : Liquid. Color : Colorless. Odor : Characteristic. **Odor threshold** : Not available. pН : Not applicable. Melting point/freezing point : Not available. Boiling point, initial boiling : >150°C (>302°F)

point, and boiling range

: Closed cup: >85°C (>185°F) Flash point

: >100°C (>212°F) Fire point **Evaporation rate** : Not available. : Not available. **Flammability** Lower and upper explosion : Not available.

limit/flammability limit

: 0.0053 kPa (0.03975 mm Hg) [50°C (122°F)]

Relative vapor density : Not available. : Not available. Relative density

1.04 g/cm<sup>3</sup> [20°C (68°F)] Density

Solubility(ies)

Not available.

Vapor pressure

Solubility in water : Not applicable. Partition coefficient: n-: Not applicable.

octanol/water

Auto-ignition temperature

Ingredient name °C °F Method 480 896 EU A.15 ethyl 2-cyanoacrylate 1,4-dihydroxybenzene 959

**Decomposition temperature** : Not available.

Viscosity : Dynamic: 1500 mPa·s (1500 cP)

Flow time (ISO 2431) : Not available.

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# Section 9. Physical and chemical properties

### Particle characteristics

Median particle size : Not applicable.

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Hazardous reactions or instability may occur under certain conditions of storage or

use

Conditions to avoid : No specific data.

**Incompatible materials**: No specific data.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

# **Section 11. Toxicological information**

## Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
ethyl 2-cyanoacrylate	LC50 Inhalation Vapor	Rat	21110 mg/m <sup>3</sup>	1 hours
1,4-dihydroxybenzene	LD50 Oral	Rat	302 mg/kg	-

### **Acute toxicity estimates**

	ATE value
Not available.	

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethyl 2-cyanoacrylate	Skin - Mild irritant	Rabbit	-	0.5 g	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-
1,4-dihydroxybenzene	Skin - Mild irritant	Human	-	2 %	-
	Skin - Severe irritant	Human	-	5 %	-

### **Conclusion/Summary**

Skin : Irritating to skin.

Eyes : Irritating to eyes.

**Respiratory**: May cause respiratory irritation.

**Sensitization** 

Not available.

**Mutagenicity** 

Not available.

Carcinogenicity

Not available.

# Classification

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# Section 11. Toxicological information

Product/ingredient name	IARC	NTP	ACGIH
1,4-dihydroxybenzene	3	-	A3

### Reproductive toxicity

Not available.

### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
ethyl 2-cyanoacrylate	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Not available.

#### Potential acute health effects

Eye contact : Causes serious eye irritation.Inhalation : May cause respiratory irritation.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

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

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

## Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

Not available.

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# **Section 11. Toxicological information**

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

**Carcinogenicity**: Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

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.

# **Numerical measures of toxicity**

# **Acute toxicity estimates**

	Oral (mg/ kg)	Dermal (mg/kg)	(gases)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
1,4-dihydroxybenzene	302	N/A	N/A	N/A	N/A

# **Section 12. Ecological information**

# **Toxicity**

Product/ingredient name	Result	Species	Exposure
1,4-dihydroxybenzene	Acute EC50 130 μg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute LC50 44 μg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### Persistence and degradability

Not available.

#### Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
1,4-dihydroxybenzene	0.59	3.162	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: 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. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and

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# Section 13. Disposal considerations

runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	TDG Classification	DOT Classification	IMDG	IATA
UN number	<b>N</b> ot available.	<b>☑</b> N3082	Not available.	Not available.
UN proper shipping name	Not available.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,4-dihydroxybenzene)	Not available.	<b>N</b> ot available.
Transport hazard class(es)	Not available.		Not available.	Not available.
Packing group	-	III	-	-
Environmental hazards	No.	No.	No.	No.

#### **Additional information**

**DOT Classification** 

: Reportable quantity 19802 lbs / 8990.1 kg [2283.6 gal / 8644.3 L]. The classification of the product is due solely to the presence of one or more US DOTlisted 'Hazardous substances' that are subject to reportable quantity requirements and only applies to shipments of packages greater than, or equal to, the product reportable quantity. Package sizes less than the product reportable quantity are not regulated as hazardous materials.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

# Section 15. Regulatory information

#### **Canadian lists**

Canadian NPRI : The following components are listed: Cyanides (ionic)

**CEPA Toxic substances** : None of the components are listed.

International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

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# Section 15. Regulatory information

**Inventory list** 

: All components are listed or exempted. Australia

Canada : Not determined.

China : All components are listed or exempted.

: Russian Federation inventory: All components are listed or exempted. **Eurasian Economic Union** 

**Japan** Japan inventory (CSCL): All components are listed or exempted.

Japan inventory (ISHL): Not determined.

**New Zealand** : All components are listed or exempted. **Philippines** : All components are listed or exempted. Republic of Korea : All components are listed or exempted. Taiwan : All components are listed or exempted. **Thailand** : All components are listed or exempted. Turkey : All components are listed or exempted. **United States** : All components are active or exempted. **Viet Nam** : All components are listed or exempted.

# Section 16. Other information

<u>History</u>

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Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group

UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Calculation method
irritation) - Category 3	

References : Not available.

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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