

**BREWER SCIENCE INC.  
SAFETY DATA SHEET**

This Safety Data Sheet has been prepared to conform to the Regulations for the Labeling and Hazard Communication of Hazardous Chemicals in Taiwan, EU Regulation, Canadian WHMIS and the OSHA Hazard Communication Standard.

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION  
AND THE COMPANY/UNDERTAKING**

**1.1 Product Identifier:**

**Trade Name:**  
ARC i-CON® Series

This SDS covers the following products:

ARC i-CON®-7	ARC i-CON®-16	ARC i-CON®-316
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**1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:**

**Product Use:** Anti-Reflective Coating  
**Uses Advised Against:** None

**1.3 Details of the Supplier of the Safety Data Sheet:**

<b>Manufacturer:</b>	Brewer Science, Inc. 2401 Brewer Drive Rolla, MO 65401	<b>Sales Office:</b>	Brewer Science, Limited North Mill, 2nd Floor Darley Abbey Mills Derby, England DE22 1DZ +44 1332 545888 +44 1332 545878 sds@brewerscience.com
<b>Information Phone Number:</b>	(573) 364-0300		
<b>Fax Number:</b>	(573) 368-3318		
<b>E-mail:</b>	sds@brewerscience.com		

**1.4 Emergency Telephone Number:**

**Emergency Spill Information:**  
Chemtrec Domestic North America: (800) 424-9300  
Chemtrec International: (703) 527-3887  
Chemtrec Taiwan: 00801-14-8954  
Chemtrec Italy (Milan): +(39)-0245557031  
Chemtrec UK (London): +(44)-870-8200418

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the Substance or Mixture:**

**OSHA/WHMIS Classification:**  
Flammable Liquid Category 3 (H226)  
Eye Damage Category 1 (H318)  
Specific Target Organ Toxicity Single Exposure Category 3 (H335)

**CLP Classification:**  
Flammable Liquid Category 3 (H226)  
Eye Damage Category 1 (H318)  
Specific Target Organ Toxicity Single Exposure Category 3 (H335)

**GHS Classification:**  
Flammable Liquid Category 3 (H226)  
Eye Damage Category 1 (H318)  
Specific Target Organ Toxicity Single Exposure Category 3 (H335)

**2.2 Label Elements:**

Danger!

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Contains: Ethyl Lactate

**Hazard Phrases**

H226	Flammable liquid and vapor.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

**Precautionary Phrases**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, or lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing mist, vapor, or spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing and eye protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or physician.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or physician if you feel unwell.
P370 + P378	In case of fire: Use water fog or spray, alcohol foam, carbon dioxide or dry chemical to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents and container in accordance with local and national regulations.

**2.3 Other Hazards:** None known.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2 Mixture:**

Chemical Name	CAS#	EINECS# / EU REACH Registration Number	ENCS/ ISIL	Classification	%
Ethyl lactate	687-47-8	202-598-0/ 01-2119516234- 49-0007	(2)1371/ (2) 1371	Flam. Liq. Cat 3 (H226), Eye Dam. Cat 1 (H318), STOT SE Cat 3 (H335)	65-80
2-(1-Methoxy)propyl acetate (Propylene glycol monomethyl ether acetate, PGMEA)	108-65-6	203-603-9/ 01-2119475791- 29-0019	(2)-3144/ (2)-3144	Flam. Liq. Cat 3 (H226)	15-30
Polymer Solids	Proprietary	Proprietary		No GHS Classification	<1-10
Crosslinker	Proprietary	Proprietary		No GHS Classification	<2

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See Section 16 for further information on GHS Classification.

#### SECTION 4: FIRST AID MEASURES

##### 4.1 Description of First Aid Measures:

**Eye:** Immediately flush thoroughly with water for at least 20 minutes, while holding the eye lids open to be sure the material is washed out. Remove contact lenses if present and easy to do. Get immediate medical attention.

**Skin:** Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation or symptoms of exposure develop. Launder clothing before re-use.

**Inhalation:** Remove victim to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get medical attention if irritation persists.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Keep the victim calm and warm. Get medical attention if you feel unwell.

**4.2 Most Important symptoms and effects, both acute and delayed:** May cause severe eye irritation and burns with possible eye damage. May cause skin irritation. Inhalation of mists or vapors may cause moderate respiratory tract irritation with headache, dizziness, nausea and other symptoms of central nervous system depression.

**4.3 Indication of any immediate medical attention and special treatment needed:** Immediate medical attention is required for eye contact.

#### SECTION 5: FIRE-FIGHTING MEASURES

**5.1 Extinguishing Media:** Use water fog or spray, alcohol foam, carbon dioxide or dry chemical.

##### 5.2 Special Hazards Arising from the Substance or Mixture:

**Unusual Fire and Explosion Hazards:** Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Vapors may form explosive mixtures with air in confined areas. As with any ether, 2-(1-Methoxy)propyl acetate may form highly reactive peroxides upon contact with air.

**Combustion Products:** Oxides of carbon, nitrogen, and sulfur, and unknown materials.

##### 5.3 Advice for Fire-Fighters:

Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

##### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc. Wear appropriate protective clothing to prevent eye and skin contact including impervious gloves, safety goggles and respirator if needed. Ventilate area.

##### 6.2 Environmental Precautions:

Report spills and releases as required to appropriate authorities.

##### 6.3 Methods and Material for Containment and Cleaning Up:

Cover with an inert absorbent material and collect into an appropriate container for disposal.

##### 6.4 Reference to Other Sections:

Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

#### SECTION 7: HANDLING AND STORAGE

**7.1 Precautions for Safe Handling:** Avoid breathing vapors, aerosols and mists. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Always wear impervious gloves, chemical safety goggles and protective clothing when handling this material. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep product away

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from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use.

**7.2 Conditions for Safe Storage, Including any Incompatibilities:** Store in a cool, dry, well-ventilated location away from oxidizers and other incompatible materials. Keep containers closed when not in use.

**7.3 Specific end use(s):** Industrial use only

<b>SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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**8.1 Control Parameters:**

Chemical Name	Exposure Limits
Ethyl lactate	None Established
2-(1-Methoxy)propyl acetate	50 ppm TWA AIHA WEEL 50 ppm TWA, 50 ppm STEL DFG MAK 50 ppm UK-TWA, 100 ppm UK-STEEL skin 50 ppm EU-TWA, 100 ppm EU STEL skin
Polymer Solids	None Established
Crosslinker	None Established

Chemical Name	Worker DNEL	PNEC
2-(1-Methoxy)propyl acetate	275 mg/m <sup>3</sup> (Inhalation) 796 mg/kg bodyweight/day (Dermal)	0.635 mg/L Freshwater 0.0635 mg/L Marine Water 3.29 mg/kg dwt Freshwater Sediment 0.329 mg/kg dwt Marine Water Sediment 100 mg/L Sewage treatment plant 0.29 mg/kg dwt Soil

**8.2 Exposure Controls:**

**Ventilation:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits. Use explosion proof electrical equipment and wiring where required.

**Environmental Exposure Controls:**

**Technical Onsite Conditions and Measures to Reduce or Limit Discharges, Air Emissions and Releases to Soil:** Treat air emission to provide a typical removal efficiency of 98% PGMEA.

**Organization Measures to Prevent/Limit Release from Site:** Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases. Use vapor recovery units when necessary.

**Conditions and Measures Related to Sewage Treatment Plant:** Estimated substance removal from wastewater via domestic sewage treatment –87.3% PGMEA.

**Personal Protective Equipment:**

**Respiratory Protection:** If needed, an approved respirator with organic vapor cartridges may be used. For higher exposures, a supplied air respirator may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

**Skin Protection:** Impervious gloves are suggested to prevent prolonged skin contact. Contact your glove supplier for selection assistance. In Europe follow EN 374.

**Eye Protection:** Chemical safety goggles are recommended. In Europe follow EN 166.

**Other Protective Equipment:** Impervious clothing is required to prevent skin contact and contamination of personal clothing. In Europe follow EN 13034. An eye wash facility and safety shower should be available in the work area.

<b>SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES</b>
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**9.1 Information on basic Physical and Chemical Properties:**

<b>Appearance:</b> Clear liquid	<b>Vapor Density:</b> 4.6 (PGMEA)
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<b>Odor:</b> Slight, sweet odor	<b>Specific Gravity:</b> No data available
<b>Odor Threshold:</b> No data available	<b>Solubility:</b> Partially soluble in water
<b>pH:</b> No data available	<b>Octanol/Water Partition Coefficient:</b> No data available
<b>Melting Point/Freezing Point:</b> No data available.	<b>Autoignition Temperature:</b> No data available
<b>Initial Boiling Point/Range:</b> 154°C (309.2°F) (Ethyl lactate)	<b>Decomposition Temperature:</b> No data available
<b>Flash Point:</b> 46°C (114°F) (PGMEA)	<b>Viscosity:</b> No data available
<b>Evaporation Rate:</b> No data available	<b>Explosive Properties:</b> Not explosive
<b>Flammable Limits:</b> LEL: 1.5 vol % (PGMEA) UEL: 11.4 vol % (Ethyl Lactate)	<b>Oxidizing Properties:</b> Not an oxidizer
<b>Vapor Pressure:</b> 3.7 mm Hg @ 20°C (68°F) (PGMEA)	<b>Relative Density:</b> No data available
<b>Molecular Formula:</b> Mixture	<b>Flammability (solid, gas):</b> Not applicable
<b>Molecular Weight:</b> Mixture	

**9.2 Other Information:** None available

## SECTION 10: STABILITY AND REACTIVITY

**10.1 Reactivity:** Not reactive

**10.2 Chemical Stability:** Stable under normal storage and handling conditions.

**10.3 Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**10.4 Conditions to Avoid:** Keep away from heat, sparks, flames and other sources of ignition.

**10.5 Incompatible Materials:** Strong oxidizing agents, inorganic acids, and bases.

**10.6 Hazardous Decomposition Products:** Thermal decomposition will produce oxides of carbon, sulfur, and nitrogen; and unknown materials.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects:

#### Potential Health Effects:

**Eye:** May cause severe eye irritation. Corneal injury is possible.

**Skin:** May cause irritation with prolonged or repeated exposure. 2-(1-Methoxy)propyl acetate may be absorbed through the skin causing symptoms of headache, dizziness, nausea, and drowsiness.

**Inhalation:** Inhalation of vapors, mists, or aerosols may cause moderate nose and throat irritation with the possibility of central nervous system depression. Symptoms of central nervous system depression include headache, dizziness, drowsiness, nausea and unconsciousness.

**Ingestion:** Swallowing may cause gastrointestinal irritation and central nervous system depression with symptoms similar to those described under inhalation.

**Chronic Hazards:** Chronic absorption may cause kidney or liver damage based on studies with laboratory animals.

#### Acute Toxicity Values:

Ethyl Lactate: Oral rat LD50 - 8200 mg/kg, Skin rabbit LD50 - >5000 mg/kg

2-(1-Methoxy)propyl acetate: Oral rat LD50- 8532 mg/kg, Skin rabbit LD50- >5000 mg/kg

Polymer Solids: No toxicity data is available

Crosslinker: Oral rat LD50 - >2000 mg/kg, Skin rabbit LD50- >2000 mg/kg, Inhalation rat LC50- >5 mg/L/ 4hr

**Skin corrosion/irritation:** 2-(1-Methoxy)propyl acetate: Non-irritating to rabbit skin. Ethyl Lactate: Not corrosive to skin, irritating to guinea pig by intradermal injection.

**Eye damage/irritation:** 2-(1-Methoxy)propyl acetate: Slightly irritating to rabbit eyes. Ethyl Lactate: Possibly corrosive to eyes, irritating to rabbit eyes.

**Respiratory Irritation:** No data available.

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**Respiratory Sensitization:** No data available.

**Skin Sensitization:** 2-(1-Methoxy)propyl acetate: Non-sensitizing in guinea pig maximization test.

**Germ Cell Mutagenicity:** 2-(1-Methoxy)propyl acetate: Negative in Ames test and unscheduled DNA synthesis.

**Carcinogenicity:** None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH and the EU CLP.

**Reproductive Toxicity:** 2-(1-Methoxy)propyl acetate: In rats, no teratological or other developmental effects were observed at doses to 4000 ppm by inhalation. Ethyl Lactate: No evidence of teratogenicity or maternal toxicity was observed in a dermal study.

**Specific Target Organ Toxicity:**

Single Exposure: No data available

Repeat Exposure: 2-(1-Methoxy)propyl acetate: In a two week inhalation study in rats and mice, doses from 300 – 3000 ppm cause some degeneration of tissues of the nasal cavity. No other adverse effects were seen. Ethyl Lactate: Inhalation studies have shown nasal degeneration but no systemic effects – NOAEL 200 mg/m<sup>3</sup>.

**Aspiration Hazard:** This product is not classified as an aspiration hazard. None of the components of this product are aspiration hazards.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity:**

2-(1-Methoxy)propyl acetate: 96 hr LC50 Fathead minnow- 161 mg/L (Static), 48 hr LC50 Daphnia magna- >500 mg/L  
Crosslinker: 96 hr LC50 Bluegill Sunfish- >603.1 mg/L, 48 hr EC50 Daphnia Magna- >100 mg/L

**12.2 Persistence and Degradability:** 2-(1-Methoxy)propyl acetate: Readily biodegradable – 100% in 6 days. Ethyl Lactate: Readily biodegradable. Crosslinker: This material is not readily biodegradable.

**12.3 Bioaccumulative Potential:** No data available

**12.4 Mobility in Soil:** No data available

**12.5 Results of PBT and vPvB Assessment:** No data available

**12.6 Other Adverse Effects:** Not applicable

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste Treatment Methods:** Dispose in accordance with all local, state and federal regulations.

**Conditions and Measures Related to Sewage Treatment Plant:** Estimated substance removal from wastewater via domestic sewage treatment –87.3% PGMEA.

**SECTION 14: TRANSPORTATION INFORMATION**

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	UN1866	Resin Solution, Flammable	3	PG III	Not applicable
Canadian TDG	UN1866	Resin Solution, Flammable	3	PG III	Not applicable
EU ADR/RID	UN1866	Resin Solution, Flammable	3	PG III	Not applicable
IMDG	UN1866	Resin Solution, Flammable	3	PG III	Not applicable
IATA/ICAO	UN1866	Resin Solution, Flammable	3	PG III	Not applicable

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14.6 Special Precautions for User: Not applicable

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:**

**U.S. FEDERAL REGULATIONS:**

**CERCLA 103 Reportable Quantity:** This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

**SARA TITLE III:**

**Hazard Category for Section 311/312:** See OSHA Hazard Classification in Section 2.

**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

**Section 302 Extremely Hazardous Substances (TPQ):** None

**EPA Toxic Substances Control Act (TSCA) Status:** This product contains a substance(s) that is not listed on the EPA TSCA inventory. A low volume exemption has been granted. This exemption restricts the use of this product to Microelectronic Manufacturing Applications.

**STATE REGULATIONS:**

**California Proposition 65:** This product contains substances known to the State of California to cause cancer and/or developmental harm.

**INTERNATIONAL REGULATIONS:**

**EUROPEAN REGULATIONS**

**REACH:** Brewer products comply with REACH regulation as applicable. For more information, contact the Brewer REACH coordinator.

**SVHC:** This product contains the following Substances of Very High Concern (SVHCs): None.

**KOREAN REGULATIONS**

Korea - ISHA - Harmful Agents Subject to Work Environment Monitoring: None

Korea - ISHA - Harmful Agents Subject to Workers Requiring Health Examination: None

**Korea National Chemical Information System (NCIS):**

Toxic Chemicals	Observation Chemicals	Restricted or Banned Chemicals
None	None	None

**TAIWAN REGULATIONS**

**Labor Safety and Health Act:** Brewer Science, Inc. complies with this regulation as applicable.

**Standards of Permissible Exposure Limits of Airborne Hazardous Substances in Workplace:** This SDS complies with this regulation by listing applicable components with Occupational Exposure Limits in Section 8: Exposure Controls/Personal Protection.

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**Regulations Governing Road Traffic Safety:** Brewer Science, Inc. complies with this regulation as applicable.

**Methods and Facilities Standard for the Storage, Clearance and Disposal of Industrial Waste:** Brewer Science, Inc. complies with this regulation as applicable. Refer to Section 6: Accidental Release Measures, Section 7: Handling and Storage, and Section 13: Disposal information.

**Public Hazardous Substances & Flammable Pressurized Gases Establishment Standards & Safety Control Regulations:** This product is classified as a Class 4- Flammable liquid, according to Attachment 1: Class, Type and Control Quantity of Public Hazardous Materials.

#### JAPANESE REGULATIONS

##### Industrial Safety and Health Law:

Manufacture Prohibited	Manufacture Allowed	Notification Obligation	Labeling Obligation	MSDS Obligation	Dangerous Substance
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Flammable Substance-Group 4

**Poisonous and Deleterious Substances Control Law (PDSCL):** None of the chemicals are listed.

**Pollutant Release and Transfer Register (PRTR):** None of the chemicals are listed.

**ISHL Prevention of Organic Solvent Poisoning:** None of the chemicals are listed.

**Law Concerning the Protection of the Ozone Layer:** None of the chemicals are listed.

**Fire Service Law:** Group 4 - Flammable liquids (2nd Class petroleum)

**Ship Safety Act:** Flammable liquid (Hazard Regulation Article 3, hazardous substance notice appendix 1)

**Aviation Law:** Flammable liquid (regulation Article 194, hazardous substance notice appendix 1)

**Air Pollution Control Law:** None of the chemicals are listed.

**Water Pollution Control Act:** None of the chemicals are listed.

**Soil Contamination Countermeasures Law:** None of the chemicals are listed.

**Offensive Odor Control Law:** None of the chemicals are listed.

**Act on Prevention of Marine Pollution and Maritime Disaster:** Noxious Liquid Substances- Category Z: 2-(1-Methoxy)propyl acetate

**15.2 Chemical Safety Assessment:** None Required

#### SECTION 16: OTHER INFORMATION

**HMIS Ratings:** Health - 3      Flammability - 2      Physical Hazard - 0  
**NFPA Ratings:** Health - 3      Flammability - 2      Instability - 0

##### SDS Revision History:

4/6/01: New MSDS

10/8/01: Skin protection updated

7/30/07: Updated format, updated name and Section 3 components.

6/17/08: Changed product name. Updated formulation. Edited spelling, format, and wording.

11/24/08: Added ACGIH to Carcinogen Status. Edited formatting for Acute Toxicity Values.

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3/1/12: Added CLP Classifications to Section 3. Updated format and data.  
 8/22/12: Section 1: Name, Section 2: Composition, Section 11: Updated hazard information, Section 12: Updated Ecotoxicity data, Section 15: added Methanol.  
 5/20/13: Updated format. Updated formulation.  
 7/9/14: Updated Section 1: Removed date of preparation, footer, Section 4: First aid, and Section 6.4: added reference.  
 3/14/17: Updated header, Section 2 & 3: Removed old EU classification system, Section 8: added CEN references, and Section 15: added Taiwan and Korean Regulations.  
 5/7/18: Section 1 Removed China Emergency Number, Section 3 REACH registration numbers, Section 8 Worker DNEL, PNEC, Environmental Exposure Controls Section 13 Conditions and Measures Related to Sewage Treatment Plant  
 7/26/18: Section 3: Updated CAS number and REACH registration number for Ethyl Lactate.

**GHS Classification for Reference (See Sections 2 and 3):**

Eye Dam. Cat 1 Eye Damage Category 1  
 Flam. Liq. Cat 3 Flammable Liquid Category 3  
 STOT SE Cat 3 Specific Target Organ Toxicity Single Exposure Category 3  
 H226 Flammable liquid and vapor.  
 H318 Causes serious eye damage.  
 H335 May cause respiratory irritation.

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This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Brewer Science, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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