

Issue 2017.10.27

Revision 2025.11.13

Safety Data Sheet (SDS)

Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

Chemical Identifier	Ink-1129W
Product Code	1129W
Reference Number	48
Name of Supplier	Hitachi Industrial Equipment Systems Co.,Ltd.
Address	1-1 Higashitaga-cho 1-chome,Hitachi-shi, Ibaraki-ken, 316-8502 Japan
Department in Charge	Ink Group, Marking Systems and Hoist Systems Division
Phone Number	+81-294-36-8682
Fax Number	+81-294-36-8975
Mail Address	aida-kohhei@hitachi-ies.co.jp
Emergency Phone Number	+81-294-36-8682
Recommended Use	Industrial ink jet printers
Restriction on Use	If the product is to be used for applications other than those recommended, seek the judgment of an expert/chemical substance specialist, etc.

Section 2 – HAZARDS IDENTIFICATION

GHS Classification of the Chemical

Physicochemical	Flammable liquids Category 2
Health Hazards	Acute toxicity (Inhalation: vapour) Category 4 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Skin sensitization Category 1 Germ cell mutagenicity Category 2 Specific target organ toxicity (single exposure) Category 2 (respiratory system, kidney) Specific target organ toxicity (single exposure) Category 3 (narcotic effects, respiratory tract irritation) Specific target organ toxicity (repeated exposure) Category 1 (nervous system) Specific target organ toxicity (repeated exposure) Category 2 (central nervous system, bone) Other hazards than mentioned above are Not classified or Classification not possible.

GHS Label Elements

Pictograms



Signal Word	Danger
Hazard Statements	H225 Highly flammable liquid and vapour H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H332 Harmful if inhaled H335 May cause respiratory irritation H336 May cause drowsiness or dizziness H341 Suspected of causing genetic defects H371 May cause damage to respiratory system, kidney H372 Causes damage to nervous system through prolonged or repeated exposure

	H373 May cause damage to bone, central nervous system through prolonged or repeated exposure
Precautionary Statements	
Prevention	<p>Obtain special instructions before use.(P201)</p> <p>Do not handle until all safety precautions have been read and understood.(P202)</p> <p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.(P210)</p> <p>Keep container tightly closed.(P233)</p> <p>Ground and bond container and receiving equipment.(P240)</p> <p>Use explosion-proof electrical, ventilating and lighting equipment.(P241)</p> <p>Use non-sparking tools.(P242)</p> <p>Take action to prevent static discharges.(P243)</p> <p>Do not breathe dust/fume/gas/mist/vapours/spray.(P260)</p> <p>Avoid breathing dust/fume/gas/mist/vapours/spray.(P261)</p> <p>Wash hands thoroughly after handling.(P264)</p> <p>Wash eyes thoroughly after handling.(P264)</p> <p>Do not eat, drink or smoke when using this product.(P270)</p> <p>Use only outdoors or in a well-ventilated area.(P271)</p> <p>Contaminated work clothing should not be allowed out of the workplace.(P272)</p> <p>Wear protective gloves/protective clothing/eye protection/face protection.(P280)</p>
Response	<p>IF ON SKIN: Wash with plenty of soap and water.(P302+P352)</p> <p>IF ON SKIN or hair: Take off immediately all contaminated clothing. Rinse skin with water or shower.(P303+P361+P353)</p> <p>IF INHALED: Remove person to fresh air and keep comfortable for breathing.(P304+P340)</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.(P305+P351+P338)</p> <p>IF exposed or concerned: Call a doctor.(P308+P311)</p> <p>IF exposed or concerned: Get medical advice/attention.(P308+P313)</p> <p>Call a doctor if you feel unwell.(P312)</p> <p>Get medical advice and attention if you feel unwell.(P314)</p> <p>Specific treatment.(P321)</p> <p>If skin irritation occurs: Get medical advice/attention.(P332+P313)</p> <p>If skin irritation or rash occurs: Get medical advice/attention.(P333+P313)</p> <p>If eye irritation persists: Get medical advice/attention.(P337+P313)</p> <p>Take off contaminated clothing and wash it before reuse.(P362+P364)</p> <p>In case of fire: Use appropriate media to extinguish.(P370+P378)</p>
Storage	Store in a well-ventilated place. Keep container tightly closed.(P403+P233)

Store in a well-ventilated place. Keep cool.(P403+P235)

Disposal Store locked up.(P405)
Dispose of contents and container in accordance with local, regional and national regulations (to be specified).(P501)

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Distinction of Substance or Mixture Mixture

Chemical Name or Generic Name	Concentration or Its Ranges (wt%)	Formula	ENCS No./ISHL No.		CAS RN
			ENCS No.	ISHL No.	
Methyl ethyl ketone	70-75	CH ₃ CH ₂ CO CH ₃	(2)-542	Existing	78-93-3
Titanium(IV) oxide	5-10	TiO ₂	(1)-558,(5)- 5225	Existing	13463-67-7
Cyclohexanone	1-3	C ₆ H ₁₀ O	(3)-2376	Existing	108-94-1

Section 4 – FIRST AID MEASURES

Inhalation

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact

IF exposed or concerned: Call a doctor.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF ON SKIN: Wash with plenty of soap and water.

Eye Contact

If skin irritation or rash occurs, get medical advice and attention.

Specific treatment.

IF exposed or concerned: Call a doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion

IF exposed or concerned: Call a doctor.

Rinse mouth.

IF SWALLOWED: Call a doctor if you feel unwell.

IF exposed or concerned: Call a doctor.

Section 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire.

When dust occurs, use dry sand.

Unsuitable Extinguishing Media

Cylindric water.

Specific Hazards in Case of Fire

Risk of producing harmful gases such as carbon monoxide. Avoid inhalation of smoke or gases.

Specific Fire Fighting

Fight fire from upwind position if possible

Keep away from sources of ignition and use appropriate extinguishing media.

Prohibit unauthorized staff from entering the area around the fire.

Keep unnecessary people away.

Special Protective Equipment and Precautions for Fire Fighters

Use goggles in combination with dust mask, and another protections as appropriate to situation.

Section 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use goggles in combination with dust mask, and another protections as appropriate to situation.

Environmental Precautions
 Large spills :Evacuate area.
 Ensure adequate ventilation.
 Do not discharge into the drains, surface waters or ground water directly.

Methods and Equipment for Containment and Cleaning Up
 No information available

Prevention Measures for Secondary Accidents
 Keep away from sources of ignition and prepare extinguishing media.

Section 7 – HANDLING AND STORAGE

Handling	Technical Measures	Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION". Ground/bond container and receiving equipment. Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting. Take precautionary measures against static discharge. Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
	Precautions for Safe Handling	Contaminated work clothing should not be allowed out of the workplace. Keep cool. Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
	Prevents Handling of Incompatible Substances or Mixtures	Refer to "Section 10 – STABILITY AND REACTIVITY".
Storage	Conditions for Safe Storage	Refer to "Section 10 – STABILITY AND REACTIVITY". Store locked up. Store container tightly closed in well-ventilated place.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

	Japan Administration Level	Exposure Limits (Japan Society for Occupational Health)	TLVs (ACGIH)
Methyl ethyl ketone	200ppm	200ppm(590mg/m ³)	TWA 200 ppm, STEL 300 ppm
Titanium(IV) oxide	Not listed	0.3 mg/m ³ ; [Dust allowable concentration] (Second type dust) inhalative dust 1mg/m ³ Total dust 4mg/m ³	TWA 10 mg/m ³ , STEL –
Cyclohexanone	20ppm	25ppm(100mg/m ³)	TWA 20 ppm, STEL 50 ppm
	Concentration standards specified by the Minister of Health, Labour and Welfare		
	Concentration standard value for 8-hours exposure	Concentration standard value for short-term exposure/ceiling	
Methyl ethyl ketone	Not listed	Not listed	

As far as we know, the information that is listed here is accurate. However, the above-mentioned suppliers or their subsidiaries shall not be liable for the accuracy or completeness of the information described above.

Titanium(IV) oxide	Not listed	Not listed
Cyclohexanone	Not listed	Not listed

TLVs (ACGIH) can be referenced at: <https://www.acgih.org/>

Engineering Controls		Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
		Use explosion-proof electrical equipment and prevent from static electricity.
Personal Protective Equipment	Respiratory Protection	Select and wear appropriate respiratory protective equipment based on risk assessments and other measures.
	Hand Protection	Wear appropriate protective equipment, including impervious or impermeable safety gloves, as circumstances dictate. Select and wear appropriate safety gloves based on risk assessments and other measures.
	Eye/Face Protection	Select and wear appropriate face and eye protection based on risk assessments and other measures.
	Skin and Body Protection	Wear appropriate protective equipment such as impervious and impermeable protective clothing and footwear, as circumstances dictate. Select and wear appropriate protective clothing and footwear based on risk assessments and other measures.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State		Liquid
Form		Liquid
Colour		White
Odour		Solvent odor
Melting Point/Freezing Point		-86.4°C (as 2-Butanone)
Boiling Point or Initial Boiling Point and Boiling Ranges		79.6 °C (as 2-Butanone)
Flammability		Flammability
Lower and Upper Explosion Limit / Flammability Limit	Lower Limit	1.8vol% (as 2-Butanone)
	Upper Limit	11.5vol% (as 2-Butanone)
Flash Point		-8.3°C (Tag Closed Cup)
Auto-Ignition Temperature		505°C (as 2-Butanone)
Decomposition Temperature		No data available
pH		No data available
Kinematic Viscosity		4.1mm ² /s
Solubility		water: 29g/100mL (20°C) (as 2-Butanone)
Partition Coefficient : n-Octanol/Water		0.29(as 2-Butanone)
Vapour Pressure		10.5kPa (20°C) (as 2-Butanone)
Density and/or Relative Density		0.92
Relative Gas Density		2.41 (Air=1, as 2-Butanone)
Particle Characteristics		No data available

Section 10 – STABILITY AND REACTIVITY

Reactivity		Does not react dangerously under normal conditions.
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Chemical Stability	Stable under normal conditions of use.
Possibility of Hazardous Reaction	Flammable
Conditions to Avoid	There is a risk of explosion due to impacts, friction, flame and other source of ignition.
Incompatible Substances or Mixtures	No data available
Hazardous Decomposition Products	No data available
Other Data	No data available

Section 11 – TOXICOLOGICAL INFORMATION

Acute Toxicity	Oral	Classification not possible since lots of the concentrations of unknown ingredients.
	Dermal	Classification not possible since lots of the concentrations of unknown ingredients.
	Inhalation	(gas) Does not fall under gas based on GHS definitions. (vapour) Classified as Category 4 since ATE is 2500 to 20000(ppmV). (dust and mist) Classification not possible since lots of the concentrations of unknown ingredients.
Skin Corrosion/Irritation		Classified as Category 2 since the sum of Category 2 ingredients is more than 10%.
Serious Eye Damage/Eye Irritation		Classified as Category 2A since the sum of Eye Category 2A is more than 10%.
Respiratory Sensitization		Unable to classify due to insufficient data.
Skin Sensitization		Classified as Category 1 since one of the Category 1 ingredients is more than 1.0%.
Germ Cell Mutagenicity		Classified as Category 2 since one of the Category 2 ingredients is more than 1.0%.
Carcinogenicity		Classification not possible since lots of the concentrations of unknown ingredients.
Reproductive Toxicity		(Reproductive toxicity) Classification not possible since lots of the concentrations of unknown ingredients.
		(Reproductive toxicity, effects on or via lactation) Unable to classify due to insufficient data.
Specific Target Organ Toxicity (Single Exposure)		Classified as Category 2(kidney) since one of the Category 2(kidney) ingredients is more than 10%.
		Classified as Category 2(respiratory system) since one of the Category 1(respiratory system) ingredients is 1 to 10%.
		Classified as Category 3(narcotic effects) since the sum of Category 3(narcotic effects) ingredients is more than 20%.
		Classified as Category 3(respiratory tract irritation) since the sum of Category 3(respiratory tract irritation) ingredients is more than 20%.
Specific Target Organ Toxicity (Repeated Exposure)		Classified as Category 1(nervous system) since one of the Category 1(nervous system) ingredients is more than 10%.
		Classified as Category 2(bone) since one of the Category 1(bone) ingredients is 1 to 10%.

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		Classified as Category 2(central nervous system) since one of the Category 1(central nervous system) ingredients is 1 to 10%.
Aspiration Hazard		Unable to classify due to insufficient data.
Section 12 – ECOLOGICAL INFORMATION		
Hazardous to the Aquatic Environment, Short-Term (Acute)		Classification not possible since lots of the concentrations of unknown ingredients.
Hazardous to the Aquatic Environment, Long-Term (Chronic)		Classification not possible since lots of the concentrations of unknown ingredients.
Ecotoxicity		No data available
Persistence		No data available
Bioaccumulative Potential		No data available
Mobility in Soil		No data available
Hazardous to the Ozone Layer		Unable to classify due to insufficient data.
Section 13 – DISPOSAL CONSIDERATIONS		
Residual waste		Because waste materials such as liquid waste, paper towels used to wipe it up, or empty containers are flammable combustible materials, the section on “specially controlled industrial waste(Flammable waste oil)” from the Waste Management and Public Cleaning Law (Waste Management Law) is applicable. Either appropriately process in accordance with Waste Management and Public Cleaning Law, or commission a contractor licensed for transport or disposal of industrial waste requiring special management. Do not let wastewater, etc. used for cleaning machinery or containers flow directly onto the ground or in to the culverts. For waste materials generated by wastewater treatment, incineration, etc. either carry out processing in accordance with the Waste Management and Public Cleaning Law and related laws and regulations, or commission a licensed vendor to do so. When incinerating of waste materials, etc., do not use an incinerator without cleaning equipment, as harmful gas will be generated. Clarify the contents of waste materials and entrust disposal to a waste disposal company.
Contaminated containers and packaging		Empty containers should be treated as industrial wastes and not allowed to contain waste.
Section 14 – TRANSPORT INFORMATION		
International Regulations	Regulatory Information	Conform to the provisions of IMO.
	by Sea	
	UN No.	1210
	Proper Shipping Name	PRINTING INK RELATED MATERIAL
	Class	3
	Packing Group	II
	Marine Pollutant	Not applicable
	Liquid Substance	Not applicable
	Transported in Bulk	
	According to MARPOL 73/78, Annex II, the IBC Code	
	Regulatory Information	Conform to the provisions of ICAO/IATA.
	by Air	
	UN No.	1210
	Proper Shipping Name	PRINTING INK RELATED MATERIAL

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Regulations in Japan	Class	3
	Packing Group	II
	Regulatory Information by Road or Rail	Complies with the Fire Service Act.
	Regulatory Information by Sea	Conform to the provisions of the Ship Safety Law.
	UN No.	1210
	Proper Shipping Name	PRINTING INK RELATED MATERIAL
	Class	3
	Packing Group	II
	Marine Pollutant	Not applicable
	Liquid Substance	Not applicable
Emergency Response Guide Number	Transported in Bulk	
	According to MARPOL 73/78, Annex II, the IBC Code	
	Regulatory Information by Air	Conform to the provisions of the Civil Aeronautics Law.
	UN No.	1210
	Proper Shipping Name	PRINTING INK RELATED MATERIAL
	Class	3
	Packing Group	II
		130

Section 15 – REGULATORY INFORMATION

Industrial Safety and Health Act

Ordinance on the Prevention of Organic Solvent Poisoning Paragraph 1 Article 1 part 4 (Second-class organic solvents, etc.), Enforcement Ordinance 2 of Appendix 6

Isopropyl alcohol
Cyclohexanone
Methyl ethyl ketone

the standards for work environment monitoring Article 65 part 2-1

Dangerous goods and hazardous goods for which the name, etc. should be indicated (Article 57, Paragraph 1 of the Act, Article 18, Item 2 ~ Item 3 of the Enforcement Order, Appended Table 2 of Article 30 of the Safety and Health Regulations)

Cyclohexanone
Methyl ethyl ketone
Titanium(IV) oxide

Dangerous Substances –Flammable substances(Order Article Appended Table 1 part 4)

Dangerous goods and hazardous goods whose names, etc. should be notified (Article 57-2, Paragraph 1 of the Act, Article 18-2, Item 2 ~ Item 3 of the Enforcement Order, Article 34-2 Appended Table 2 of the Safety and Health Regulations)

Cyclohexanone (Ordinance on Industrial Safety and Health Number of Appended Tables 2: 748) (Trade Secrets)
Methyl ethyl ketone (Ordinance on Industrial Safety and Health Number of Appended Tables 2: 2034) (Trade Secrets)

Titanium(IV) oxide (Trade Secrets)

Materials for special medical examinations and current handling workers (Industrial Safety and Health Act 66 2 and Order for Enforcement of Industrial Safety and Health Act Article 22 (ii))

Chemical substances that damage the skin, etc. / Harmful substances that cause skin irritation (Article 594-2, Paragraph 1 of the Safety and Health Regulations, No. 0531 No. 9 issued on May 31, 2020, No. 0704 issued on July 4, 2020) List of substances applicable to No. 1 and 5)

Cyclohexanone

	Chemical substances that damage the skin, etc., and harmful substances that absorb the skin (List of substances subject to Article 594-2, Paragraph 1 of the Safety and Health Regulations, 0531-9 issued on May 31, Reiwa 4, and 0704-1 and 5 of July 4, Reiwa 5)
Industrial Safety and Health Act (Substances subject to labeling and notification, Carcinogenic substances) (Implementation in Reiwa 8)	<p>Cyclohexanone Methyl ethyl ketone</p> <p>Dangerous goods and hazardous goods for which the name, etc. should be indicated (Article 57, Paragraph 1 of the Act, Article 18, Item 2 ~ Item 3 of the Enforcement Order, Appended Table 2 of Article 30 of the Safety and Health Regulations)</p>
	<p>Cyclohexanone Methyl ethyl ketone Titanium(IV) oxide</p> <p>Dangerous goods and hazardous goods whose names, etc. should be notified (Article 57-2, Paragraph 1 of the Act, Article 18-2, Item 2 ~ Item 3 of the Enforcement Order, Article 34-2 Appended Table 2 of the Safety and Health Regulations)</p>
	<p>Cyclohexanone (Ordinance on Industrial Safety and Health Number of Appended Tables 2: 748) (Trade Secrets) Methyl ethyl ketone (Ordinance on Industrial Safety and Health Number of Appended Tables 2: 2034) (Trade Secrets)</p>
Industrial Safety and Health Act (Substances subject to labeling and notification, Carcinogenic substances) (Implementation in Reiwa 9)	<p>Titanium(IV) oxide (Trade Secrets)</p> <p>Dangerous goods and hazardous goods for which the name, etc. should be indicated (Article 57, Paragraph 1 of the Act, Article 18, Item 2 ~ Item 3 of the Enforcement Order, Appended Table 2 of Article 30 of the Safety and Health Regulations)</p>
	<p>Cyclohexanone Methyl ethyl ketone Titanium(IV) oxide</p> <p>Dangerous goods and hazardous goods whose names, etc. should be notified (Article 57-2, Paragraph 1 of the Act, Article 18-2, Item 2 ~ Item 3 of the Enforcement Order, Article 34-2 Appended Table 2 of the Safety and Health Regulations)</p>
	<p>Cyclohexanone (Ordinance on Industrial Safety and Health Number of Appended Tables 2: 748) (Trade Secrets) Methyl ethyl ketone (Ordinance on Industrial Safety and Health Number of Appended Tables 2: 2034) (Trade Secrets)</p>
Poisonous and Deleterious Substances Control Act	Titanium(IV) oxide (Trade Secrets)
Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof	Not applicable
Act on the Regulation of Manufacture and Evaluation of Chemical Substances	Not applicable
Fire Service Act	Priority Assessment Chemical Substances (Article 2 part 5)
Narcotics and Psychotropics Control Act	Hazardous Materials Category IV inflammable liquids Class I petroleum non water-soluble Packing Group II Narcotics and psychotropic raw materials (Article 2, Paragraph 1, Item 7, Appendix 4, Item 9 of the Law, Article 5 of the Designation Order)

Foreign Exchange and
Foreign Trade Act

Import Trade Control Order Appended Table I part 16

Export approved goods: Narcotics and psychotropic raw materials
(Article 48, Paragraph 3 of the Law; Article 2, Appendix 2, Paragraph
21-3 of the Export Order; Article 1 of Ministerial Ordinance No. 38 of
June 19, 1992)

Export approved goods, specified hazardous waste, etc. (Article 48,
Paragraph 3 of the Law, Article 2, Attached Table 2, Paragraph 35-2
of the Export Order)

Ship Safety Law
Aviation Law

Flammable liquids(Order Article 3,Appended Table I)

Flammable liquids(Order Article 194,Appended Table I)

Section 16 – OTHER INFORMATION

Industrial Safety and Health Act	<p>Second-class organic solvents, etc.contain more than 5% of Second-class organic solvents.</p> <p>In the case where “composition and ingredient information” corresponds to the secret of the business, the description of the content is the conventional range display. However, it is possible to notify us separately by the method of information transmission agreed with the customer, such as a confidentiality agreement. For more information, please contact our sales representative.</p> <p>2-butanone and methyl ethyl ketone, MEK and ethyl methyl ketone are the same substances.</p>
Act on the Regulation of Manufacture and Evaluation of Chemical Substances	<p>We have a Priority Assessment Chemical Substance posting threshold of 0.1% or more.</p> <p>The posting of a Priority Assessment Chemical Substance in SDS is as of November 2019 as an effort.</p>
Foreign Exchange and Foreign Trade Act	In law, printing inks are not approved for export
Fire Service Act	The flash point of Class I petroleum is less than 21 ° c.
Poisonous and Deleterious Substances Control Act	The deleterious substances is only applicable to the material, and the mixture is non-applicable.
RoHS Specified Substance Concentration	<p>Substances treated as equipment are exempt from this law.</p> <p>Cd<100ppm Pb, Hg, Cr(VI), PBB, PBDE, DEHP, DBP, BBP, DIBP <1000ppm</p>
Allowable concentration Standards	<p>TLV-TWA:Threshold Limit Values-Time Weighted Average STEL (Short Term Exposure Limit</p> <p>JIS Z7253:2019</p>
Cited Literature	<p>1) International Chemical Safety Cards</p> <p>2) National Institute of Technology and Evaluation (NITE), Japan</p> <p>3) Site for Safe Workplace by Ministry of Health, Labour and Welfare, Japan</p> <p>4) EZSDS(JCDB)</p>
Additional Information about This Product:	To the best of our knowledge, the information contained herein is accurate. However, neither the above named 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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