# GE Healthcare

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Europe

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

# 1.1 Product identifier

Product name

# HiPrep<sup>™</sup> SP HP 16/10

Catalogue Number

29-0181-83

Product description	Not available.
Product type	Liquid.
Other means of identification	Not available.

**1.2 Relevant identified uses of the substance or mixture and uses advised against** Laboratory chemicals Liquid chromatography. Research and Development

> Munzinger Strasse 5 D-79111 Freiburg Germany / Deutschland

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

<u>Supplier</u>	GE Healthcare UK Ltd Amersham Place Little Chalfont Buckinghamshire HP7 9NA England +44 0870 606 1921	Hours of operation 08.30 - 17.00
	Person who prepared the MSDS	: msdslifesciences@ge.com
		1.4 Emergency telephone number
Europe	GE Healthcare Bio-Sciences GmbH	+49 0761 4543 0

National advisory body/Poison Center

Europe

http://www.who.int/ipcs/poisons/centre/directory/euro/en/

Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

# SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Product definition Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226

Ingredients of unknown toxicity

Ingredients of unknown ecotoxicity

#### Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

ClassificationR10Physical/chemical hazardsFlammable.



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#### Hazard pictograms



Signal word	Warning	
Hazard statements	Flammable liquid and vapor.	
Precautionary statements		
Prevention	Wear protective gloves: 1-4 hours (breakthrough time): butyl rubber, neoprene. Wear eye or face protection: Recommended: safety glasses with side-shields. Keep away from heat, sparks, open flames and hot surfaces No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.	
Response	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.	
Storage	Keep cool.	
Disposal	Not applicable.	
Hazardous ingredients		
Supplemental label elements	Not applicable.	
<u>Special packaging requirements</u> Containers to be fitted with child-resistant fastenings	Not applicable.	
Tactile warning of danger	Not applicable.	
2.3 Other hazards		
Other hazards which do not result in classification	Not available.	

# SECTION 3: Composition/information on ingredients

Substance/mixture	Mixture				
			Classification		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
ethanol	EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	14 - 19	F; R11	Flam. Liq. 2, H225	[2]
			See Section 16 for the full text of the R-phrases declared above.	See Section 16 for the full text of the H statements declared above.	

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

#### Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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



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# SECTION 4: First aid measures

#### 4.1 Description of first aid measures

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4.1 Description of mist did me	
Eye contact	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 if irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 if adverse health effects persist or are severe. 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.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

Potential acute health effects	
Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Over-exposure signs/symptoms	
Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.

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

Notes to physicianTreat symptomatically. Contact poison treatment specialist immediately if large quantities have been<br/>ingested or inhaled.Specific treatmentsNo specific treatment.

# SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	Use dry chemical, CO2, water spray (fog) or foam.
Unsuitable extinguishing media	Do not use water jet.
5.2 Special hazards arising from	the substance or mixture
Hazards from the substance or mixture	Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters	
Special precautions 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.



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Special protective equipment for	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus
fire-fighters	(SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including
C C	helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level
	of protection for chemical incidents.

# SECTION 6: Accidental release measures

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

1 71	5 71
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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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 specialised 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".
6.2 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).
6.3 Methods and materials for co	ontainment 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. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. 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.
7.2 Conditions for safe storage, including any incompatibilities	Store between the following temperatures: 4 to 30°C (39.2 to 86°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.
7.3 Specific end use(s)	
Recommendations	Laboratory chemicals Liquid chromatography. Research and Development
Industrial sector specific solutions	Not available.



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# SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient	name	Exposure limit values		
ethanol		ACGIH TLV (United States, 2/2010). Notes: 1996 Adoption Refers to Appendix A Carcinogens. STEL: 1000 ppm 15 minute(s).		
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.			
Derived effect levels				
No DELs available.				
Predicted effect concentrations				
No PECs available.				
8.2 Exposure controls				
Appropriate engineering controls	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.			
Individual protection measures				
Hygiene measures	and using the lavator remove potentially co	ns and face thoroughly after handling chemical products, before eating, smoking ry and at the end of the working period. Appropriate techniques should be used to ontaminated clothing. Wash contaminated clothing before reusing. Ensure that d 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. Recommended: safety glasses with side-shields			
Skin protection				
Hand protection	when handling chem	mpervious gloves complying with an approved standard should be worn at all times nical products if a risk assessment indicates this is necessary. 1-4 hours butyl rubber, neoprene		
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. Recommended: lab coat			
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.			
Respiratory protection	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: A respirator is not needed under normal and intended conditions of product use.			
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.			

# SECTION 9: Physical and chemical properties

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

Liquid. [and Suspension.]
solution : Colorless. / Suspension. : White.
Sweetish. Alcohol-like. [Slight]
180 ppm
Not available.
Not available.



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Initial boiling point and boiling range	Not available.
Flash point	Closed cup: 38 to 43°C
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Burning time	Not applicable.
Burning rate	Not applicable.
Upper/lower flammability or explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n- octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not considered to be a product presenting a risk of explosion.
Oxidizing properties	Not available.

#### 9.2 Other information

No additional information.

# SECTION 10: Stability and reactivity

10.1 Reactivity 10.2 Chemical stability 10.3 Possibility of hazardous reactions	No specific test data related to reactivity available for this product or its ingredients. The product is stable. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m3	4 hours
Conclusion/Summary	Not available.	I	I	
Acute toxicity estimates				
Not available.				
Irritation/Corrosion				
Conclusion/Summary				
Skin	Repeated exposure may cause	skin dryness or cracking.		
Sensitizer				
Conclusion/Summary	Not available.			
<u>Mutagenicity</u>				
Conclusion/Summary	Not available.			
<u>Carcinogenicity</u>				
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Conclusion/Summary	Not available.		
Reproductive toxicity			
Conclusion/Summary	Not available.		
<u>Teratogenicity</u>			
Conclusion/Summary	Not available.		
Specific target organ toxicity (single	e exposure)		
Not available.			
Specific target organ toxicity (repea	ated exposure)		
Not available.			
Aspiration hazard			
Not available.			
Information on the likely routes of exposure	Routes of entry anticipated:Oral, Dermal, Inhalation.		
Potential acute health effects			
Inhalation	No known significant effects or critical hazards.		
Ingestion	No known significant effects or critical hazards.		
Skin contact	No known significant effects or critical hazards.		
Eye contact	No known significant effects or critical hazards.		
Symptoms related to the physical, o	chemical and toxicological characteristics		
Inhalation	No specific data.		
Ingestion	No specific data.		
Skin contact	No specific data.		
Eye contact	No specific data.		
Delayed and immediate effects and	also chronic effects from short and long term expos		
Short term exposure			
Potential immediate effects	Not available.		
Potential delayed effects	Not available.		
Long term exposure			
Potential immediate effects	Not available.		
Potential delayed effects	Not available.		
Potential chronic health effects			
Not available.			
Conclusion/Summary	Not available.		
General	No known significant effects or critical hazards.		
Carcinogenicity	No known significant effects or critical hazards.		
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.		
Other information	Not available.		



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# **SECTION 12: Ecological information**

#### 12.1 Toxicity

	Species	Exposure
C50 17.921 mg/L Marine water C50 >100 ppm Fresh water	Algae - Ulva pertusa Daphnia - Daphnia magna - <24 hours	96 hours 48 hours 48 hours
C50 42000 ug/L Fresh water NOEC 0.375 ul/L Fresh water	Larvae Fish - Oncorhynchus mykiss Fish - Gambusia holbrooki - Larvae - 3	4 days 12 weeks
	C50 >100 ppm Fresh water C50 25500 ug/L Marine water C50 42000 ug/L Fresh water	C50 >100 ppm Fresh waterDaphnia - Daphnia magna - <24 hoursC50 25500 ug/L Marine waterCrustaceans - Artemia franchiscana - LarvaeC50 42000 ug/L Fresh waterFish - Oncorhynchus mykiss

Conclusion/Summary

Not available.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Do	se		Inoculum
ethanol	-	100 % - Readily - 20 days		-	-		-
Conclusion/Summary Not available.							
Product/ingredient name	Aquatic half-life		Photolysis			Biodegra	dability
ethanol	-		-			Readily	

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethanol	-0.31	0.66	low

### 12.4 Mobility in soil

Soil/water partition coefficient (K <sub>oc</sub> Not available. )				
Mobility	Not available.			
12.5 Results of PBT and vPvB asse	essment			
РВТ	Not applicable.			
vPvB	Not applicable.			
12.6 Other adverse effects	No known significant effects or critical hazards.			

### SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

Product	
Methods of disposal	The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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.
Hazardous waste	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
European waste cataloque (EWC)	

Waste code	Waste designation
07 07 99	wastes not otherwise specified

#### Packaging

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.



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#### Special precautions

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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### SECTION 14: Transport information

	ADR/RID	ADN/ADNR	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	Not available.	Not available.	Not available.	Not available.
Additional information	-	-	-	Remarks IATA Special Provision A 58 - Aqueous solutions containing 24% or less alcohol by volume is not subject to these regulations.

14.7 Transport in bulk according to Annex II of MARPOLNot available.73/78 and the IBC CodeNot available.

#### SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

# Annex XIV - List of substances subject to authorization

#### Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
Other EU regulations	
Europe inventory	All components are listed or exempted.
Black List Chemicals	Not listed
Priority List Chemicals	Not listed
Integrated pollution prevention and control list (IPPC) - Air	Not listed
Integrated pollution prevention and control list (IPPC) - Water	Not listed

International regulations



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Chemical Weapons Convention List Schedule I Chemicals	Not listed	
Chemical Weapons Convention List Schedule II Chemicals	Not listed	
Chemical Weapons Convention List Schedule III Chemicals	Not listed	
15.2 Chemical Safety Assessment	This product contains substances for which Chemical Safety Assessments are still required.	

# SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
	KKN = REACH Registration Number

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data

Full text of abbreviated H statements	H225 H226	Highly flammable liquid and vapor. Flammable liquid and vapor.	
Full text of classifications [CLP/GHS]	Flam. Liq. 2, H225 Flam. Liq. 3, H226		FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3
Full text of abbreviated R phrases	R11- Highly flammable. R10- Flammable.		
Full text of classifications [DSD/DPD]	F - Highly flammable		
Date of printing	28 November 2012		
Date of issue/ Date of revision	05 November 2012		
Date of previous issue	No previous validation		
Version	1		
Notice to reader			

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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