

**SAFETY DATA SHEET** 

**DetenLAB® 240** 

### 36104

Date of previous issue

: No previous validation

Date of issue/Date of revision :

05/03/2025

### Section 1. Identification

Product identifier	: DetenLAB® 240
Product code	: 36104
Chemical name	: Benzene, C10-13-alkyl derivs.
Other means of identification	<ul> <li>Linear alkylbenzene containing side alkyl chains of 10-12 carbon atoms, averaging 11.7 atoms.Linear Alkylbenzene</li> </ul>
Product type	: Liquid.

#### Recommended use of the chemical and restrictions on use

#### **Identified uses**

Not applicable.

#### Specific uses

A basic petrochemical intermediate for the production of Linear Alkylbenzene Sulfonic Acid - LAS, which is the most widely used surfactant in the world in formulations of liquid and powder detergents.

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

Supplier/Manufacturer, Distributor or Importer	: Deten Química S.A. Rua Hidrogênio, 1744 Complexo Industrial de Camaçari (COPEC) Camaçari - Bahia - Brasil CEP: 42.816-140
Email	: fala@deten.com.br comercial@deten.com.br tuteladeproducto@cepsachemicals.com productstewardship@cepsachemicals.com
Telephone number	: +55 71 3634-3207 / 3208 Fax: +55 71 3634-2324
Hours of operation	: 08:00 - 16:30

#### **Emergency telephone number**

#### Supplier/Manufacturer, Distributor or Importer

Telephone number : +55 71 3634-3333 / 0800-940-5284

Hours of operation :

: 24/7

## Section 2. Hazard identification

Classification of the substance or mixture

: ACUTE TOXICITY (dermal) - Category 5 ASPIRATION HAZARD - Category 1

#### **GHS label elements**



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# Section 2. Hazard identification

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H304 - May be fatal if swallowed and enters airways. H313 - May be harmful in contact with skin.
Precautionary statements		
Prevention	:	Not applicable.
Response	:	P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. P302 + P312 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell.
Storage	:	P405 - Store locked up.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	None known.

### Section 3. Composition/information on ingredients

Substance/mixture	: Substance
Chemical name	: Benzene, C10-13-alkyl derivs.
Other means of identification	: Linear alkylbenzene containing side alkyl chains of 10-12 carbon atoms, averaging 11.7 atoms.Linear Alkylbenzene

### **CAS number/other identifiers**

CAS number	: 67774-74-7		
EC number	: 267-051-0		
Ingredient name		%	CAS number
Benzene, C10-13-alkyl	derivs.	100	67774-74-7

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.

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

### Section 4. First aid measures

#### **Description of necessary first aid measures**

Eye contact	<ul> <li>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.</li> </ul>
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.



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# Section 4. First aid measures

Skin contact	: Flush contaminated skin with plenty of 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 if adverse health effects persist or are severe. If necessary, call a poison center or physician. Wash clothing before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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 sympt	oms/effects, acute and delayed
Potential acute healt	<u>n effects</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May be harmful in contact with skin.
Ingestion	: May be fatal if swallowed and enters airways.
Over-exposure signs	/symptoms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: Adverse symptoms may include the following:

nausea or vomiting

Indication of immediate me	lical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.
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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.



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Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
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	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

### Section 6. Accidental release measures

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.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 plan or proceed as follows. Contain and collect regulations (see Section 13). Dispose of via a licensed waste disposal according to local regulations (see Section 13). Tipspose of via a licensed waste disposal contractor. Containinated absorbent material may pose the same hazard as the spilled product. Note: see Section 16 or emergency contact information and Section 13 for	Personal precautions, protec	tiv	e equipment and emergency procedures
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.         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). 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		:	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
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## Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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.



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## Section 7. Handling and storage

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.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

**Occupational exposure limits** 

None.

#### **Biological exposure indices**

No exposure indices known.

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
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 meas	ures
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. 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: safety glasses with side-shields. Recommended: Chemical splash goggles. Pursuant to EN-166:01 standard.
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. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	<ul> <li>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: Chemical-resistant protective suit. Wear protective gloves.</li> </ul>
Other skin protection	: The proper footwear and any other necessary cutaneous protection measure should be chosen depending on the task that is carried out and the risks involved. Such measures must be approved by a specialist before proceeding to manipulation Recommended: Chemical-proof safety boots without holes for shoestrings.



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### Section 8. Exposure controls/personal protection

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the 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: If ventilation is inadequate, use respirator that will protect against organic vapor and dust/mist.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance	
Physical state	Liquid.
Color	Colorless.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-50°C (-58°F)
Boiling point, initial boiling point, and boiling range	285 to 308°C (545 to 586,4°F)
Flash point	Closed cup: 140 to 145,5°C (284 to 293,9°F) [ Pensky-Martens]
Flammability	Not available.
Lower and upper explosion limit/ flammability limit	Not available.
Vapor pressure	0,017 kPa (0,13 mm Hg)
Relative vapor density	8,1 [Air = 1]
Relative density	0,858 to 0,868
Solubility(ies)	
Media	Result
cold water hot water	Not soluble Not soluble
Solubility in water	Not available.
Partition coefficient: n- octanol/water	7,9
Auto-ignition temperature	229°C (444,2°F)
Decomposition temperature	Not available.
Viscosity	Kinematic (40°C (104°F)): 4,15 mm²/s (4,15 cSt)
Particle characteristics	
Median particle size	Not applicable.



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## 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	: Under normal conditions of storage and use, hazardous reactions will not occur.
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
Benzene, C10-13-alkyl derivs.	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary

: Very low toxicity to humans or animals.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Benzene, C10-13-alkyl derivs.	Eyes - Edema of the conjunctivae	Rabbit	0	-	-
	Skin - Moderate irritant	Rabbit	-	4 hours	-

### **Conclusion/Summary**

: No conclusive data for classification.

Skin Eyes

: No conclusive data for classification.

Sensitization

• • • • • • • • • • • • • • • • • • •	Route of exposure	Species	Result
Benzene, C10-13-alkyl derivs.	skin	Guinea pig	Not sensitizing

### **Conclusion/Summary**

Skin

: No conclusive data for classification.

#### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Benzene, C10-13-alkyl derivs.	476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal Cell: Germ	Negative
Conclusion/Summary Carcinogenicity	: Not mutagenic in a sta	ndard battery of genetic toxicological	tests.

### Not available.



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# Section 11. Toxicological information

Conclusion/Summary

: No additional remark.

### Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Benzene, C10-13-alkyl derivs.	Negative	Negative	Negative	Rat	Oral	-

Conclusion/Summary

: No known significant effects or critical hazards.

#### **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
Benzene, C10-13-alkyl derivs.	Negative - Oral	Rat	-	-
denvs.				

**Conclusion/Summary** : No known significant effects or critical hazards.

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

Not available.

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

Not available.

#### **Aspiration hazard**

Product/ingredient name	Result
Benzene, C10-13-alkyl derivs.	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	:	No known significant effects or critical hazards.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	1	May be harmful in contact with skin.
Ingestion	:	May be fatal if swallowed and enters airways.
Symptoms related to the phy	sic	al, chemical and toxicological characteristics
Eye contact	1	No specific data.
Inhalation	1	No specific data.
Skin contact	1	No specific data.
Ingestion	:	Adverse symptoms may include the following: nausea or vomiting
Delayed and immediate effec	<u>ts</u>	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.



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# Section 11. Toxicological information

# Potential chronic health effects Product/ingredient name Result

Product/ingredient name	Result	Species	Dose	Exposure			
Benzene, C10-13-alkyl derivs.	Chronic LOAEL Oral	Rat	500 mg/kg	105 days			
	Sub-acute LOAEL Oral	Rat - Male, Female	2500 mg/kg	28 days			
	Chronic NOAEL Oral	Rat	50 mg/kg	105 days			
General	: No known significant effects or critical hazards.						
Carcinogenicity	: No known significant effe	: No known significant effects or critical hazards.					
Mutagenicity	: No known significant effects or critical hazards.						
<b>B 1 1 1 1 1 1</b>							

### **Reproductive toxicity** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapors)	Inhalation (dusts and mists) (mg/l)
Benzene, C10-13-alkyl derivs.	N/A	2500	N/A	N/A	N/A

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Benzene, C10-13-alkyl derivs.	Acute EC50 >0,1 mg/l Acute EC50 >0,041 mg/l Fresh water Acute NOEC 10 mg/m <sup>3</sup> Fresh water	Algae - Scenedesmus subspicatus Daphnia - Daphnia magna Fish - Danio rerio	72 hours 48 hours 48 hours
Conclusion/Summary	No known significant effects or critic	al hazards.	

### Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
Benzene, C10-13-alkyl derivs.	301F Ready Biodegradability - Manometric Respirometry Test	64,1 % - Readily - 28 days		-	-
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
Benzene, C10-13-alkyl derivs.	-		-		Readily

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Benzene, C10-13-alkyl derivs.	7,9	35	low



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# Section 12. Ecological information

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: 22000

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

### Section 14. Transport information

	UN	IMDG	ΙΑΤΑ	
UN number	Not regulated.	Not regulated.	Not regulated.	
UN proper shipping name	-	-	-	
Transport hazard class(es)	-	-	-	
Packing group	-	-	-	
Environmental hazards	No.	No.	No.	

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 to IMO instruments		
Proper shipping name	:	Alkyl (C9+)benzenes
Ship type	1	3
Pollution category	1	Y
Remarks	1	Not available.



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### Section 15. Regulatory information

### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

#### **Montreal Protocol**

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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

Not listed.

#### **Inventory list**

Australia	: This material is listed or exempted.
Canada	: This material is listed or exempted.
China	: This material is listed or exempted.
Eurasian Economic Union	: Russian Federation inventory: This material is listed or exempted.
Japan	<ul> <li>Japan inventory (CSCL): This material is listed or exempted.</li> <li>Japan inventory (ISHL): Not determined.</li> </ul>
New Zealand	: This material is listed or exempted.
Philippines	: This material is listed or exempted.
Republic of Korea	: This material is listed or exempted.
Taiwan	: This material is listed or exempted.
Thailand	: This material is listed or exempted.
Türkiye	: This material is listed or exempted.
United States	: This material is active or exempted.
Viet Nam	: This material is listed or exempted.

### Section 16. Other information

<u>History</u>	
Date of printing	: 05/03/2025
Date of issue/Date of revision	: 05/03/2025
Date of previous issue	: No previous validation
Version	: 2
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate 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



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## Section 16. Other information

**CN code** 

: 3817 00 50; 3817 00 80

### Procedure used to derive the classification

Classification	Justification
	On basis of test data Expert judgment

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.