

# Safety Data Sheet

Australia

## Section 1. Identification

Product name **Lysis buffer type 15**

Catalogue Number **28932043**



Component Number **28932043V**

Product type Liquid.

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

#### Identified uses

☒ Use in laboratories

### Company details

#### Manufacturer

Cytiva  
Amersham Place  
Little Chalfont  
Buckinghamshire  
HP7 9NA United Kingdom  
+44 1494 508000

#### Supplier

Global Life Sciences Solutions Australia Pty Ltd  
495 Blackburn Road  
Mount Waverley VIC 3149  
Australia  
tfn: 1800 150 522

Emergency telephone number **000** and +61 2 9846 4000

## Section 2. Hazard(s) identification

Classification of the substance or mixture ☒ ACUTE TOXICITY (oral) - Category 4  
☒ SKIN CORROSION/IRRITATION - Category 2  
☒ SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

### GHS label elements

#### Hazard pictograms



#### Signal word

☒ **WARNING**

#### Hazard statements

☒ Harmful if swallowed.  
☒ Causes skin irritation.  
☒ Causes serious eye irritation.

### Precautionary statements

#### Prevention

☒ Wear protective gloves. Wear eye or face protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

#### Response

☒ IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. 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 or attention.

#### Storage

☒ Not applicable.

#### Disposal

☒ Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### Supplemental label elements

☒ Not applicable.



Other hazards which do not result in classification ☒ None known.

### Section 3. Composition and ingredient information

Substance/mixture Mixture

Other means of identification Not available.

| Ingredient name  | % (w/w) | Identifiers                   |
|--|---------|-------------------------------|
| <input checked="" type="checkbox"/> Guanidinium chloride | 66.87   | CAS: 50-01-1<br>EC: 200-002-3 |

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

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

### Section 4. First aid measures

#### Description of necessary first aid measures

|              |  |
|--------------|--|
| Eye contact  | <input checked="" type="checkbox"/> Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.  |
| Inhalation   | <input checked="" type="checkbox"/> 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Skin contact | <input checked="" type="checkbox"/> Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.   |
| Ingestion    | <input checked="" type="checkbox"/> Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.                                  |

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

##### Potential acute health effects

|              |   |
|--------------|---|
| Eye contact  | <input checked="" type="checkbox"/> Causes serious eye irritation.                    |
| Inhalation   | <input checked="" type="checkbox"/> No known significant effects or critical hazards. |
| Skin contact | <input checked="" type="checkbox"/> Causes skin irritation.                           |
| Ingestion    | <input checked="" type="checkbox"/> Harmful if swallowed.                             |

##### Over-exposure signs/symptoms

|              |  |
|--------------|--|
| Eye contact  | <input checked="" type="checkbox"/> Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |
| Inhalation   | <input checked="" type="checkbox"/> No specific data.  |
| Skin contact | <input checked="" type="checkbox"/> Adverse symptoms may include the following:<br>irritation<br>redness                     |
| Ingestion    | <input checked="" type="checkbox"/> No specific data.  |

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

|                            |  |
|----------------------------|--|
| Notes to physician         | <input checked="" type="checkbox"/> In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.      |
| Specific treatments        | <input checked="" type="checkbox"/> No specific treatment.   |
| Protection of first-aiders | <input checked="" type="checkbox"/> 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. |



See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

|   |   |
|---|---|
| <b>Suitable extinguishing media</b>                   | Use an extinguishing agent suitable for the surrounding fire.   |
| <b>Unsuitable extinguishing media</b>                 | None known.   |
| <b>Specific hazards arising from the chemical</b>     | In a fire or if heated, a pressure increase will occur and the container may burst.   |
| <b>Hazardous thermal decomposition products</b>       | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides<br>halogenated compounds  |
| <b>Special protective actions for fire-fighters</b>   | 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. |
| <b>Special protective equipment for fire-fighters</b> | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.                         |

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

|                                    |   |
|------------------------------------|---|
| <b>For non-emergency personnel</b> | 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| <b>For emergency responders</b>    | 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".   |
| <b>Environmental precautions</b>   | Avoid dispersal of spilt 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 material for containment and cleaning up

|                    |   |
|--------------------|---|
| <b>Small spill</b> | Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.  |
| <b>Large spill</b> | Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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. |

## Section 7. Handling and storage

### Precautions for safe handling

|   |   |
|---|---|
| <b>Protective measures</b>  | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour 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.  |
| <b>Advice on general occupational hygiene</b>                       | 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.   |
| <b>Conditions for safe storage, including any incompatibilities</b> | 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. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |



Section 8. Exposure controls and 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 measures

|                        |  |
|------------------------|--|
| Hygiene measures       | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.  |
| Eye/face protection    | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.   |
| 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        | 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.  |
| 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 | 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.   |

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.                                |
| Colour   | Colourless to light yellow.            |
| Odour  | Odourless.                             |
| Odour threshold  | Not available.                         |
| pH   | 7 [Conc. (% w/w): 100%]                |
| Melting point/freezing point                             | Not available.                         |
| Boiling point or initial boiling point and boiling range | Not available.                         |
| Flash point  | [Product does not sustain combustion.] |

|  | Ingredient name   | Closed cup |        |        | Open cup |    |        |
|--|---|------------|--------|--------|----------|----|--------|
|  |   | °C         | °F     | Method | °C       | °F | Method |
|  | Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy- | >109.85    | >229.7 |        |          |    |        |
|  | Sorbitan monolaurate, ethoxylated   | 275        | 527    |        |          |    |        |
| Burning time                                 | Not applicable.   |            |        |        |          |    |        |
| Burning rate                                 | Not applicable.   |            |        |        |          |    |        |
| Evaporation rate                             | Not available.  |            |        |        |          |    |        |
| Flammability                                 | Not available.  |            |        |        |          |    |        |
| Lower and upper explosive (flammable) limits | Not available.  |            |        |        |          |    |        |

|   |   |                         |     |        |                         |     |        |
|---|---|-------------------------|-----|--------|-------------------------|-----|--------|
| Vapour pressure                         | Not available.                                      |                         |     |        |                         |     |        |
|   |   | Vapour Pressure at 20°C |     |        | Vapour pressure at 50°C |     |        |
|   | Ingredient name                                     | mm Hg                   | kPa | Method | mm Hg                   | kPa | Method |
|   | <input checked="" type="checkbox"/> Water           | 17.5                    | 2.3 |        |                         |     |        |
|   | Sorbitan monolaurate, ethoxylated                   | 0                       | 0   |        |                         |     |        |
| Relative vapour density                 | Not available.                                      |                         |     |        |                         |     |        |
| Relative density                        | Not available.                                      |                         |     |        |                         |     |        |
| Solubility(ies)                         |   |                         |     |        |                         |     |        |
|   | Media   | Result                  |     |        |                         |     |        |
|   | <input checked="" type="checkbox"/> Cold water      | Easily soluble          |     |        |                         |     |        |
|   | hot water   | Easily soluble          |     |        |                         |     |        |
| Solubility in water                     | <input checked="" type="checkbox"/> Not available.  |                         |     |        |                         |     |        |
| Partition coefficient: n-octanol/ water | Not available.                                      |                         |     |        |                         |     |        |
| Auto-ignition temperature               | Not available.                                      |                         |     |        |                         |     |        |
| Decomposition temperature               | Not available.                                      |                         |     |        |                         |     |        |
| SADT                                    | Not available.                                      |                         |     |        |                         |     |        |
| Viscosity                               | Not available.                                      |                         |     |        |                         |     |        |
| Flow time (ISO 2431)                    | <input checked="" type="checkbox"/> Not available.  |                         |     |        |                         |     |        |
| Particle characteristics                |   |                         |     |        |                         |     |        |
| Median particle size                    | <input checked="" type="checkbox"/> Not applicable. |                         |     |        |                         |     |        |

Section 10. Stability and reactivity

|                                    |  |
|------------------------------------|--|
| Reactivity                         | <input checked="" type="checkbox"/> No specific test data related to reactivity available for this product or its ingredients.           |
| Chemical stability                 | <input checked="" type="checkbox"/> The product is stable.   |
| Possibility of hazardous reactions | <input checked="" type="checkbox"/> Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| Conditions to avoid                | <input checked="" type="checkbox"/> No specific data.  |
| Incompatible materials             | <input checked="" type="checkbox"/> No specific data.  |
| Hazardous decomposition products   | <input checked="" type="checkbox"/> 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   |
| <input checked="" type="checkbox"/> guanidinium chloride | Rat - Oral - LD50<br>475 mg/kg<br><u>Toxic effects:</u> Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Excitement Gastrointestinal - Hypermotility, diarrhea |
| Conclusion/Summary [Product]                             | Not available.   |

Skin corrosion/irritation

|                                 |                |
|---------------------------------|----------------|
| Not available.                  |                |
| Conclusion/Summary<br>[Product] | Not available. |

Serious eye damage/eye irritation

|                                 |                |
|---------------------------------|----------------|
| Not available.                  |                |
| Conclusion/Summary<br>[Product] | Not available. |

Respiratory corrosion/irritation

|   |                |
|---|----------------|
| Not available.                          |                |
| <b>Conclusion/Summary<br/>[Product]</b> | Not available. |

Respiratory or skin sensitization

Not available.

#### Skin

**Conclusion/Summary  
[Product]** Not available.

#### Respiratory

**Conclusion/Summary  
[Product]** Not available.

#### Germ cell mutagenicity

Not available.

**Conclusion/Summary  
[Product]** Not available.

#### Carcinogenicity

Not available.

**Conclusion/Summary  
[Product]** Not available.

#### Reproductive toxicity

Not available.

**Conclusion/Summary  
[Product]** Not available.

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

Not available.

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

Not available.

#### Aspiration hazard

Not available.

**Information on likely routes of exposure** ☒ Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential acute health effects

**Eye contact** ☒ Causes serious eye irritation.

**Inhalation** ☒ No known significant effects or critical hazards.

**Skin contact** ☒ Causes skin irritation.

**Ingestion** ☒ Harmful if swallowed.

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

**Eye contact** ☒ Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

**Inhalation** ☒ No specific data.

**Skin contact** ☒ Adverse symptoms may include the following:  
irritation  
redness

**Ingestion** ☒ No specific data.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

##### Short term exposure



|   |   |
|---|---|
| Potential immediate effects             | Not available.  |
| Potential delayed effects               | Not available.  |
| <b>Long term exposure</b>               |   |
| Potential immediate effects             | Not available.  |
| Potential delayed effects               | Not available.  |
| <b>Potential chronic health effects</b> |   |
| Not available.                          |   |
| Conclusion/Summary [Product]            | Not available.  |
| <b>General</b>                          |   |
|   | <input checked="" type="checkbox"/> No known significant effects or critical hazards. |
| <b>Carcinogenicity</b>                  |   |
|   | <input checked="" type="checkbox"/> No known significant effects or critical hazards. |
| <b>Mutagenicity</b>                     |   |
|   | <input checked="" type="checkbox"/> No known significant effects or critical hazards. |
| <b>Reproductive toxicity</b>            |   |
|   | <input checked="" type="checkbox"/> No known significant effects or critical hazards. |

**Numerical measures of toxicity**

|   |              |                |                          |                             |                                     |
|---|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| <b>Acute toxicity estimates</b>   |              |                |                          |                             |                                     |
| Product/ingredient name   | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
| <input checked="" type="checkbox"/> Lysis buffer type 15 guanidinium chloride | 663.2        | N/A            | N/A                      | N/A                         | N/A                                 |
|   | 475          | N/A            | N/A                      | N/A                         | N/A                                 |

Section 12. Ecological information

**Toxicity**

Not available.

Conclusion/Summary[Product] Not available.

**Persistence and degradability**

Not available.

Conclusion/Summary[Product] Not available.

|  |                   |            |                  |
|--|-------------------|------------|------------------|
| Product/ingredient name                                  | Aquatic half-life | Photolysis | Biodegradability |
| <input checked="" type="checkbox"/> guanidinium chloride | -                 | -          | Not readily      |

**Bioaccumulative potential**

|  |                    |     |           |
|--|--------------------|-----|-----------|
| Product/ingredient name                                  | LogP <sub>ow</sub> | BCF | Potential |
| <input checked="" type="checkbox"/> guanidinium chloride | -1.7               | -   | Low       |

**Mobility in soil**

|                                  |   |
|----------------------------------|---|
| Soil/water partition coefficient | Not available.  |
| Other adverse effects            | <input checked="" type="checkbox"/> No known significant effects or critical hazards. |

Section 13. Disposal considerations

|                  |  |
|------------------|--|
| Disposal methods | <input checked="" type="checkbox"/> The generation of waste should be avoided or minimised 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 spilt material and runoff and contact with soil, waterways, drains and sewers. |
|------------------|--|

## Section 14. Transport information

|  | ADG  | ADR/RID        | IMDG           | IATA           |
|--|--|----------------|----------------|----------------|
| UN number                                      | Not regulated.   | Not regulated. | Not regulated. | Not regulated. |
| Proper shipping name                           | -  | -              | -              | -              |
| Class  | -  | -              | -              | -              |
| Label  |  |                |                |                |
| PG   | -  | -              | -              | -              |
| Environmental hazards                          | No.  | No.            | No.            | No.            |
| Additional information                         | -  | -              | -              | -              |
| 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 | Not available.   |                |                |                |

## Section 15. Regulatory information

**Standard for the Uniform Scheduling of Medicines and Poisons**

Not regulated.

**Model Work Health and Safety Regulations - Scheduled Substances**

No listed substance

**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        | All components are listed or exempted. |
| United States    | All components are listed or exempted. |
| Canada inventory | All components are listed or exempted. |
| China            | All components are listed or exempted. |
| Japan            | All components are listed or exempted. |
| New Zealand      | All components are listed or exempted. |

## Section 16. Any other relevant information

**History**

|                       |                  |                        |              |
|-----------------------|------------------|------------------------|--------------|
| Date of printing      | 20 February 2026 | Date of previous issue | 01 July 2011 |
| Date of issue         | 20 February 2026 | Version                | 5            |
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ADG = Australian Dangerous Goods  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
N/A = Not available  
SUSMP = Standard Uniform Schedule of Medicine and Poisons  
UN = United Nations

Procedure used to derive the classification

| Classification                                  | Justification      |
|---|--------------------|
| ACUTE TOXICITY (oral) - Category 4              | Calculation method |
| SKIN CORROSION/IRRITATION - Category 2          | Calculation method |
| SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A | Calculation method |

 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 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.