# SAFETY DATA SHEET

BG Universal Coolant/Antifreeze - Purple



# 1. Product and company identification

Manufacturer	: BG Products Inc. 701 S. Wichita Street Wichita, KS, 67213, USA www.bgprod.com
Relevant identified uses	of the substance or mixture and uses advised against
MSDS #	: 589-04
Validation date	: 5/19/2016
Responsible name	: Kolin Anglin, Environmental Coordinator 316-265-2686 msds@bgprod.com
In case of emergency	: (800) 424-9300 (CHEMTREC)

### 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: EYE IRRITATION - Category 2A
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 4.3%
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Causes serious eye irritation.
Precautionary statements	
Prevention	: Wear eye or face protection. Wash hands thoroughly after handling.
Response	: 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 attention
Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.

# 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Other means of identification	:	Not available.
CAS number/other identifiers		
CAS number	1	Not applicable.
CAS number Product code		Not applicable. 589-04
		••

CAS number	%
107-21-1	60 - 100

# 3. Composition/information on ingredients

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.

### 4. First aid measures

Description of necessary fir	<u>st aid measures</u>
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.</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.
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.
Most important symptoms/e	ffects, acute and delayed
Potential acute health effe	<u>ts</u>
Eye contact	: Causes serious eye irritation.
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/symp	<u>toms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate mediate	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.

See toxicological information (Section 11)

# 5. Fire-fighting measures

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

## 6. Accidental release measures

Personal precautions, protec	ive equipment and emergency procedures
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 co	ntainment 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 13 for waste disposal.

# 7. Handling and storage

#### 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. 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.

## 7. Handling and storage

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.
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. 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.

# 8. Exposure controls/personal protection

### **Control parameters**

#### **Occupational exposure limits**

Ingredient name		Exposure limits	
ethanediol		-	
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 measure	<u>S</u>		
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	worn at all times when handling chemica necessary. Considering the parameters during use that the gloves are still retain noted that the time to breakthrough for a	omplying with an approved standard should be all products if a risk assessment indicates this is specified by the glove manufacturer, check ng their protective properties. It should be ny glove material may be different for different tures, consisting of several substances, the accurately estimated.	
Body protection	<ul> <li>Personal protective equipment for the bo performed and the risks involved and sh handling this product.</li> </ul>	ody should be selected based on the task being ould be approved by a specialist before	
Other skin protection		skin protection measures should be selected the risks involved and should be approved by a	
Respiratory protection	appropriate standard or certification. Re	posure, select a respirator that meets the spirators must be used according to a proper fitting, training, and other important	

# 9. Physical and chemical properties

Physical state	: Liquid.
Flash point	: Open cup: 110°C (230°F) [Cleveland.]
Auto-ignition temperature	: Not available.
Flammable limits	: Not available.
Color	: Purple. [Light]
Odor	: Glycol.
рН	: Not available.
<b>Boiling/condensation point</b>	: 173°C (343.4°F)
Melting/freezing point	: -13.5°C (7.7°F)
Specific gravity	: 1.1231
Vapor pressure	: Not available.
Vapor density	: Not available.
Odor threshold	: Not available.
Evaporation rate	: Not available.
Solubility	: Easily soluble in the following materials: cold water and hot water.

# 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
ethanediol	LD50 Oral	Rat	4700 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethanediol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	1 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	6 hours 1440 milligrams	-
	Skin - Mild irritant	Rabbit	-	555 milligrams	-

### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

# Section 11. Toxicological information

Carcinogenicity Not available.	
Reproductive toxicity Not available.	
Teratogenicity Not available.	
Specific target organ toxicit Not available.	t <u>y (single exposure)</u>
Specific target organ toxicit Not available.	t <u>y (repeated exposure)</u>
Aspiration hazard Not available.	
Information on the likely routes of exposure	: Not available.
Potential acute health effects	<u>8</u>
Eye contact	: Causes serious eye irritation.
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.
	sical, chemical and toxicological characteristics
Eye contact	<ul> <li>Adverse symptoms may include the following: pain or irritation watering redness</li> </ul>
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Delayed and immediate effect	ts 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.
Long term exposure Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
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.

### Section 11. Toxicological information

### Numerical measures of toxicity

Acute toxicity estimates

Route
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Oral

ATE value 5108.7 mg/kg

# 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
ethanediol	Acute LC50 6900000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 41000000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 8050000 µg/l Fresh water	Fish - Pimephales promelas	96 hours

### Persistence and degradability

Not available.

### **Bioaccumulative potential**

Product/ingredient name ethanediol	<b>LogP₀</b> -1.36	BCF -	Potential low
<u>Mobility in soil</u> Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.		
Other adverse effects	: No known significant effects	or critical hazards.	

### 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
	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

# 14. Transport information

# 14. Transport information

	DOT Classification	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.
Additional information	Reportable quantity 5434.8 lbs / 2467.4 kg [580. 37 gal / 2197 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	-	
Special precautic	ons for user : Transport with upright and sec	ure. Ensure that persons transpo	sport in closed containers that are brting the product know what to do in th
Transport in bulk to Annex II of MA	ons for user : Transport with upright and sec event of an acci according : Not available.		
Transport in bulk to Annex II of MA the IBC Code	ons for user : Transport with upright and sec event of an acci according : Not available.	ure. Ensure that persons transpo	
Transport in bulk to Annex II of MA the IBC Code 15. Regula	ons for user : Transport with upright and sec event of an acci according : Not available. RPOL and atory information llations : TSCA 4(a) prop TSCA 8(a) CDF United States i	ure. Ensure that persons transpo ident or spillage. posed test rules: methyl-1H-ber R Exempt/Partial exemption: No inventory (TSCA 8b): Not deterr	nzotriazole bit determined nined.
Transport in bulk to Annex II of MA the IBC Code <b>15. Regul</b> a U.S. Federal regu	ons for user : Transport with upright and sec event of an acci according : Not available. RPOL and : Not available. atory information alations : TSCA 4(a) prop TSCA 8(a) CDF United States i Clean Water Ad Section 112 : Listed Air	ure. Ensure that persons transpo ident or spillage. posed test rules: methyl-1H-ber R Exempt/Partial exemption: No	nzotriazole bit determined nined.
Transport in bulk to Annex II of MA the IBC Code <b>15. Regula</b> U.S. Federal regu Clean Air Act (b) Hazardous Pollutants (HA <u>SARA 302/304</u>	ons for user : Transport with upright and sec event of an acci- according : Not available. RPOL and : Not available. atory information atory information Ilations : TSCA 4(a) prop TSCA 8(a) CDF United States i Clean Water Ad Section 112 : Listed Air Ps)	ure. Ensure that persons transpo ident or spillage. posed test rules: methyl-1H-ber R Exempt/Partial exemption: No inventory (TSCA 8b): Not deterr	nzotriazole bit determined nined.
Transport in bulk to Annex II of MA the IBC Code <b>15. Regula</b> J.S. Federal regu Clean Air Act (b) Hazardous Pollutants (HA <u>SARA 302/304</u> <u>Composition/in</u>	ons for user : Transport with upright and sec event of an acci according : Not available. ARPOL and atory information lations : TSCA 4(a) prop TSCA 8(a) CDF United States i Clean Water Ad Section 112 : Listed Air Ps)	ure. Ensure that persons transpo ident or spillage. posed test rules: methyl-1H-ber R Exempt/Partial exemption: No inventory (TSCA 8b): Not deterr	nzotriazole bit determined nined.
Transport in bulk to Annex II of MA the IBC Code <b>15. Regula</b> U.S. Federal regu Clean Air Act (b) Hazardous Pollutants (HA <u>SARA 302/304</u>	ons for user : Transport with upright and sec event of an acci according : Not available. ARPOL and atory information lations : TSCA 4(a) prop TSCA 8(a) CDF United States i Clean Water Ad Section 112 : Listed Air Ps)	ure. Ensure that persons transpo ident or spillage. posed test rules: methyl-1H-ber R Exempt/Partial exemption: No inventory (TSCA 8b): Not deterr	nzotriazole bit determined nined.
Transport in bulk to Annex II of MA the IBC Code <b>15. Regula</b> U.S. Federal regu Clean Air Act (b) Hazardous Pollutants (HA <u>SARA 302/304</u> <u>Composition/in</u> No products we SARA 304 RQ	ons for user : Transport with upright and sec event of an acci according : Not available. ARPOL and atory information lations : TSCA 4(a) prop TSCA 8(a) CDF United States i Clean Water Ad Section 112 : Listed Air Ps)	ure. Ensure that persons transpo ident or spillage. posed test rules: methyl-1H-ber R Exempt/Partial exemption: No inventory (TSCA 8b): Not deterr	nzotriazole bit determined nined.
Transport in bulk to Annex II of MA the IBC Code <b>15. Regula</b> U.S. Federal regu Clean Air Act (b) Hazardous Pollutants (HA <u>SARA 302/304</u> <u>Composition/in</u> No products we SARA 304 RQ <u>SARA 311/312</u>	ons for user : Transport with upright and sec event of an acci- according : Not available. RPOL and : Not available. atory information ulations : TSCA 4(a) prop TSCA 8(a) CDF United States in Clean Water Ad Section 112 : Listed Air Ps) nformation on ingredients ere found. : Not applicable.	ure. Ensure that persons transpo- ident or spillage. posed test rules: methyl-1H-ber R Exempt/Partial exemption: No inventory (TSCA 8b): Not deterr ct (CWA) 311: potassium hydrox	nzotriazole bit determined nined.
Transport in bulk to Annex II of MA the IBC Code <b>15. Regula</b> U.S. Federal regu Clean Air Act (b) Hazardous Pollutants (HA <u>SARA 302/304</u> <u>Composition/in</u> No products we SARA 304 RQ	ons for user : Transport with upright and sec event of an acci according : Not available. ARPOL and atory information atory information ulations : TSCA 4(a) prop TSCA 8(a) CDF United States in Clean Water Ad Section 112 : Listed Air Ps) nformation on ingredients ere found. : Not applicable. : Immediate (acu	ure. Ensure that persons transpo- ident or spillage. posed test rules: methyl-1H-ber R Exempt/Partial exemption: No inventory (TSCA 8b): Not deterr ct (CWA) 311: potassium hydrox	nzotriazole bit determined nined.

### 15. Regulatory information

Name		Sudden release of pressure		Immediate (acute) health hazard	Delayed (chronic) health hazard
ethanediol	No.	No.	No.	Yes.	Yes.

#### **SARA 313**

	Product name	CAS number
Form R - Reporting requirements	ethanediol	107-21-1
Supplier notification	ethanediol	107-21-1

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

#### **State regulations**

Massachusetts	The follow	ing components are listed: ETHYLENE GLYCOL
New York	The follow	ing components are listed: Ethylene glycol
New Jersey	The follow	ing components are listed: ETHYLENE GLYCOL; 1,2-ETHANEDIOL
Pennsylvania	The follow	ing components are listed: 1,2-ETHANEDIOL
United States inventory (TSCA 8b)	Not detern	nined.
<u>Canada</u>		
WHMIS (Canada)		<ul> <li>B: Material causing immediate and serious toxic effects (Toxic).</li> <li>A: Material causing other toxic effects (Very toxic).</li> </ul>
<u>Canadian lists</u>		
Canadian NPRI	The follow	ing components are listed: Ethylene glycol
<b>CEPA Toxic substances</b>	None of th	e components are listed.
Canada inventory	Not detern	nined.
<b>-</b>		

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### International regulations

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

### Montreal Protocol (Annexes A, B, C, E)

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

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

Not listed.

# International lists

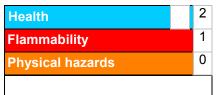
National inventory	
Australia	: Not determined.
Canada	: Not determined.

### 15. Regulatory information

China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.

### 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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#### **History**

Date of printing	: 5/19/2016
Date of issue/Date of revision	: 5/19/2016
Date of previous issue	: No previous validation
Version	: 1

### **16.** Other information

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 = 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)
	UN = United Nations
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 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.