SAFETY DATA SHEET

according to UN-GHS (rev. 7)

Blasocut GR 50

Section 1. Identif	cation
Product identifier	: Blasocut GR 50
Article No.	: 01050-01
Relevant identified uses of	the substance or mixture and uses advised against
Identified uses	
Industrial use only. Metal working fluids	
Uses advised against	
Consumer use.	
Manufacturer	: BLASER SWISSLUBE AG Winterseistrasse 22 CH-3415 Hasle-Rüegsau Switzerland Tel:+41 (0)34 460 01 01 E-Mail: contact@blaser.com
Supplier's details	 Hi-Tech Machine Tools (Pty) Ltd 16 Nguni Drive ,Longmeadow West Modderfontein,1609 South Africa Tel:+27 (0) 11 608 0088 E-Mail: info@hitech.co.za
e-mail address of person responsible for this SDS	: reach@blaser.com
Emergency telephone number (with hours of operation)	: +27 21 300 2732 (24h/7d)
Section 2. Hazard	identification
Classification of the substance or mixture	: SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	 H315 - Causes skin irritation. H319 - Causes serious eye irritation. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	
General	: Not applicable.
Prevention	 P280 - Wear protective gloves. Wear eye or face protection. P273 - Avoid release to the environment. P264 - Wash thoroughly after handling.
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Section 2. Hazard identification

 P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P332 + P313 - If skin irritation occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
: Not applicable.
: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

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

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
2,2',2"-nitrilotriethanol	≥10 - ≤15	102-71-6
1-aminopropan-2-ol	≤10	78-96-6
neodecanoic acid	≤8.5	26896-20-8
Alcohols, C16-18, ethoxylated propoxylated	≤8	68002-96-0
2,2'-(cyclohexylimino)bisethanol	≤3	4500-29-2
Poly(oxy-1,2-ethanediyl), α -(carboxymethyl)- ω -(octyloxy)-	≤2	53563-70-5
benzotriazole	≤1.5	95-14-7
dicyclohexylamine	≤0.9	101-83-7
1,2-Ethanediamine, N1,N1,N2,N2-tetramethyl-, polymer with 1,1'-oxybis [2-chloroethane]	≤0.1	31075-24-8

Additional information :

Neutralisation product: Equilibrium of Ionic Pairs according to REACH Annex V, 4.

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 f	irst aid measure	<u>S</u>			
Eye contact	eyelids. Ch	y flush eyes with plenty o neck for and remove any Get medical attention.			
Inhalation	respiratory It may be d resuscitatic If unconscie Maintain ar waistband.	thing vapour or mist. If no arrest occurs, provide and angerous to the person p on. Get medical attention ous, place in recovery por open airway. Loosen tig In case of inhalation of c . The exposed person m s.	ificial respiration or o roviding aid to give i if adverse health eff sition and get medic pht clothing such as lecomposition produ	oxygen by trained mouth-to-mouth fects persist or are al attention imme a collar, tie, belt o icts in a fire, symp	e severe. diately. or otoms may
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Section 4. First aid measures

Skin contact	 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	: 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 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	ects, acute and delayed
Potential acute health effe	
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>ms</u>
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.
Indication of immediate me	al attention and special treatment needed, if necessary
Notes to physician	: 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	No specific treatment.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media	
Suitable extinguishing	: Use an extinguishing agent suitable for the surrounding fire.
media	
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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.



Section 5. Firefighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
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	: 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			
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 spilt material. Avoid breathing vapour 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".	
Environmental precautions	:	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). Water polluting material. May be harmful to the environment if released in large quantities.	

Methods and material 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 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. 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 spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	L	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. 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 between the following temperatures: 0 to 40°C (32 to 104°F). Shelf life: 24 months. 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/personal protection

Control parameters

Occupational exposure limits

South Africa		
Ingredient name	Exposure limits	
2,2',2"-nitrilotriethanol	DOL OEL (South Africa, 3/2021). Notes: Occupational exposure limit – restricted limit TWA: 10 mg/m ³ 8 hours.	

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 measured	<u>ures</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	: 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. Wear suitable gloves tested to EN374. Nitrile gloves. thickness 0.3 mm (minimum).
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved before handling this product.



Section 8. Exposure controls/personal protection

Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved before handling this product.
Respiratory protection	: A respirator is not needed under normal and intended conditions of product use. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

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	:	Light tan.
Odour	1	Characteristic.
Odour threshold	1	Not available.
рН	1	8.8 to 9.2 [Conc. (% w/w): 5%]
Melting point/freezing point	:	Not available.
Pour point	1	<0°C (<32°F)
Boiling point, initial boiling point, and boiling range	:	Not available.
Flash point	1	Open cup: Not applicable.
Evaporation rate	1	Not available.
Flammability	4	Not available.
Lower and upper explosion limit/ flammability limit	:	Not available.
Vapour pressure	1	Not available.
Relative vapour density	1	Not available.
Relative density	1	Not available.
Density	1	1.051 g/cm³ [20°C (68°F)]
Solubility in water	1	Not available.
Partition coefficient: n- octanol/water	:	Not applicable.
Auto-ignition temperature	1	Not available.
Decomposition temperature	:	Not available.
Viscosity	1	Kinematic (40°C (104°F)): 17 mm²/s (17 cSt)
Particle characteristics		
Median particle size	1	Not applicable.
	4.	

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Shelf life: 24 months.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.

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Section 10. Stability and reactivity

Conditions to avoid	: No specific data.

Hazardous decomposition	: Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity Product/ingredient name Result

Product/ingredient name	Result	Species	Dose	Exposure
2,2',2"-nitrilotriethanol	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	6400 mg/kg	-
1-aminopropan-2-ol	LD50 Dermal	Rabbit	1851 mg/kg	-
	LD50 Oral	Rat	2098 mg/kg	-
neodecanoic acid	LD50 Dermal	Rat	3640 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Alcohols, C16-18, ethoxylated propoxylated	LD50 Oral	Rat	>2000 mg/kg	-
2,2'-(cyclohexylimino) bisethanol	LD50 Oral	Rat	>2000 mg/kg	-
Poly(oxy-1,2-ethanediyl), α- (carboxymethyl)-ω-(octyloxy) -	LD50 Oral	Rat	>2000 mg/kg	-
benzotriazole	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	500 mg/kg	-
dicyclohexylamine	LD50 Dermal	Rabbit	200 mg/kg	-
	LD50 Oral	Rat	200 mg/kg	-
1,2-Ethanediamine, N1,N1, N2,N2-tetramethyl-, polymer with 1,1'-oxybis [2-chloroethane]	LC50 Inhalation Vapour	Rat	5.8 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1951 mg/kg	-

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin Eyes

Sensitisation Not available.

: pH value - Used for classification

: pH value - Used for classification

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Section 11. Toxicological information

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name		Route of exposure	Target organs
2,2'-(cyclohexylimino)bisethanol	Category 2	-	gastrointestinal tract

Aspiration hazard

Not available.

Information on likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	1	Causes serious eye irritation.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	1	Causes skin irritation.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the phy	sic	al, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	1	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	1	No specific data.
Delayed and immediate effec	<u>ts</u>	as well as chronic effects from short and long-term exposure
<u>Short term exposure</u>		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>

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Section 11. Toxicological information

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.
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)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Blasocut GR 50	>5000	>5000	N/A	N/A	N/A
2,2',2"-nitrilotriethanol	6400	2500	N/A	N/A	N/A
1-aminopropan-2-ol	N/A	1851	N/A	N/A	N/A
neodecanoic acid	2500	3640	N/A	N/A	N/A
Alcohols, C16-18, ethoxylated propoxylated	2500	N/A	N/A	N/A	N/A
2,2'-(cyclohexylimino)bisethanol	500	N/A	N/A	N/A	N/A
Poly(oxy-1,2-ethanediyl), α-(carboxymethyl)-ω- (octyloxy)-	2500	N/A	N/A	N/A	N/A
benzotriazole	500	2500	N/A	N/A	N/A
dicyclohexylamine	200	200	N/A	N/A	N/A
1,2-Ethanediamine, N1,N1,N2,N2-tetramethyl-, polymer with 1,1'-oxybis[2-chloroethane]	1951	2500	N/A	11	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
2,2',2"-nitrilotriethanol	Chronic NOEC 16 mg/l Fresh water	Daphnia - Daphnia magna	21 days
1-aminopropan-2-ol	Acute LC50 210 mg/l Fresh water	Fish - Carassius auratus	96 hours
neodecanoic acid	Acute EC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
Alcohols, C16-18, ethoxylated propoxylated	LC50 >100 mg/l	Fish	96 hours
2,2'-(cyclohexylimino) bisethanol	EC50 >100 mg/l	Fish	96 hours
benzotriazole	LC50 180 mg/l	Fish	96 hours
	Acute EC50 15.8 mg/l	Daphnia - <i>Daphnia galeata</i>	48 hours
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	Chronic NOEC 1 mg/l	Daphnia - <i>Daphnia galeata</i>	21 days
dicyclohexylamine	Acute EC50 70.1 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
1,2-Ethanediamine, N1,N1, N2,N2-tetramethyl-, polymer with 1,1'-oxybis [2-chloroethane]	Acute EC50 0.37 mg/l	Daphnia	48 hours
	Acute LC50 0.047 mg/l Fresh water	Fish	96 hours
	Acute NOEC 0.037 mg/l Fresh water	Fish	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
benzotriazole	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2,2',2"-nitrilotriethanol	-1	<3.9	Low
1-aminopropan-2-ol	-0.96	-	Low
neodecanoic acid	2.1	<225	Low
benzotriazole	1.44	-	Low
dicyclohexylamine	2.724	459	Low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : 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.

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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 : Not available. to IMO instruments

Section 15. Regulatory information

15.1 International regulations

Stockholm Convention on Persistent Organic Pollutants Not listed.

15.2 Other regulations

Chemical safety assessment : No Chemical Safety Assessment has been carried out.

Section 16. Other information

History	
Date o	f printing

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Version	: 2
Prepared by	: Product Stewardship Blaser Swisslube AG
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor EC50 = Half maximal effective concentration GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LC50 = Median lethal concentration LD50 = Median lethal dose 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 UN = United Nations
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Procedure used to derive the classification

Classification SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Expert judgment Expert judgment Calculation method

Justification

ISSLUBE

References

: Not available.

✓ Indicates information that has changed from previously issued version.

Other Regulations:

REACH:

Herewith, we confirm that all our products fulfill all the requirements of REACH regulation. All of the raw materials used in our products are either REACH registered or exempt from registration.

ROHS:

BLASER Swisslube products are fully compliant with Annex II of DIRECTIVE 2015/863/EU (RoHS 3) and do not contain the following substances above their respective limitations:

Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP), chromium Cr⁶+-compounds, Heavy metals (Lead or it's compounds, cadmium or it's compounds, mercury or it's compounds).

Herewith we confirm that, with the exceptions of Additive A38 (art.-no. 29182-02), our cutting and grinding fluids do not contain any Substances of Very High Concern (SVHC) above the regulatory cut-off limit of 0.1%.

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.