

SAFETY DATA SHEET RUBIA S 40

SDS # : 087016

Section 1. Identification

Product identifier

: RUBIA S 40

Recommended use of the chemical and restrictions on use

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Identified uses	
Engine oil	

Supplier's details

	TotalEnergies Lubrifiants 562 Avenue du Parc de L'ile 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71 rm.msds-lubs@totalenergies.com
	TOTAL - Direction Afrique 24, cours Michelet 92800 PUTEAUX FRANCE Tel : +33 (0)1 41 35 40 00 Fax : +33 (0)1 41 35 82 88
	See section 16 to have the contact details of the local supplier
Emergency telephone number	: +44 1235 239671 To speak to an interlocutor in Portuguese or Spanish: +44 1235 239670

Section 2. Hazard identification

Classification of the substance or mixture	:	Not classified.
GHS label elements		
Signal word	:	No signal word.
Hazard statements	:	No known significant effects or critical hazards.
Precautionary statements		
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	1	Not applicable.
Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.



Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Additional information

: Mineral oil of petroleum origin Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

There are no 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	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
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	: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effect		
Eye contact	No known significant effects or critical hazards.	
Inhalation	No known significant effects or critical hazards.	
Skin contact	Defatting to the skin. May cause skin dryness and irritation.	
Ingestion	No known significant effects or critical hazards.	
Over-exposure signs/sympto	<u>s</u>	
Eye contact	No specific data.	
Inhalation	No specific data.	
Skin contact	Adverse symptoms may include the following: irritation dryness cracking	
Ingestion	No specific data.	
Indication of immediate medical attention and special treatment needed, if necessary		
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
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.	



Date of revision

RUBIA S 40

Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , 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.
Hazardous thermal decomposition products	: carbon monoxide carbon dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc 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, protec	<u>tiv</u>	e 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	nt	ainment 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.



Section 6. Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. 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. Note: see Section 1 for
	emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	3	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8).
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. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits UN

None.

Occupational exposure limits Egypt

Product/substance	Exposure limit values
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 1/2021). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
Residual oils (petroleum), solvent-dewaxed	ACGIH TLV (United States, 1/2021). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction

Occupational exposure limits Lesotho

Product/substance	Exposure limit values
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Residual oils (petroleum), solvent-dewaxed	ACGIH TLV (United States, 1/2021). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction

Occupational exposure limits South Africa



Section 8. Exposure controls/personal protection **Product/substance Exposure limit values** Distillates (petroleum), hydrotreated heavy ACGIH TLV (United States, 1/2021). [Mineral Oil, pure, highly paraffinic and severely refined] TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction ACGIH TLV (United States, 1/2021). [Mineral Oil, pure, highly Residual oils (petroleum), solvent-dewaxed and severely refined] TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction : Good general ventilation should be sufficient to control worker exposure to airborne **Appropriate engineering** contaminants. controls **Environmental exposure** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some controls cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, **Advisory OEL** ÷. STEL 10 mg/m3, ACGIH (TLV) TWA 5 mg/m3 (highly refined)

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: safety glasses with side-shields.
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. Hydrocarbon-proof gloves Fluorinated rubber nitrile rubber Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
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 :	None under normal use conditions If these are not sufficient to maintain exposure below the OEL, suitable respiratory protection must be worn (Type A/P1).



Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature ($20^{\circ}C / 68^{\circ}F$) and pressure (1013 hPa) unless otherwise indicated

uniess otherwise indicated				
<u>Appearance</u>				
Physical state	: Liqu	: Liquid. [limpid]		
Color	: Am	: Amber.		
Odor	: Cha	aracteristic.		
Odor threshold	: Not	available.		
рН	: Not	applicable.		
Melting point/freezing point	: Not	available.		
Boiling point	: Not	available.		
Flash point	: Ope	en cup: >220°C (>428°F) [ASTM D 92]		
Evaporation rate	: Not	available.		
Flammability (solid, gas)	: Not	available.		
Lower and upper explosive (flammable) limits	: Not	: Not available.		
Vapor pressure	: Not	available.		
Vapor density	: Not	available.		
Relative density	: 0.88	8 [ASTM D 1298]		
Density	: 0.88	8 g/cm³ [ASTM D 1298]		
Solubility(ies)	1 · · · · · · · · · · · · · · · · · · ·			
Media	Result			
cold water hot water		Not soluble Not soluble		
Miscible with water	: No.	·		
Partition coefficient: n- octanol/water	: Not applicable.			
Auto-ignition temperature	: Not available.			
Decomposition temperature	: Not available.			
Viscosity	: Kinematic (40°C (104°F)): 126.2 mm²/s (126.2 cSt) [ASTM D 445]			
Flow time (ISO 2431)	: Not available.			
Particle characteristics				
Median particle size	: Not applicable.			

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.



Section 10. Stability and reactivity

Conditions to avoid	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: carbon monoxide carbon dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity				
Conclusion/Summary	: Based on available data, the classification criteria are not met.			
Irritation/Corrosion				
Skin	: Based on available data, the classification criteria are not met.			
Eyes	: Based on available data, the classification criteria are not met.			
Respiratory	: Based on available data, the classification criteria are not met.			
Sensitization				
Skin	: Based on available data, the classification criteria are not met.			
Respiratory	: Based on available data, the classification criteria are not met.			
Mutagenicity				
Conclusion/Summary	: Based on available data, the classification criteria are not met.			
Carcinogenicity				
Conclusion/Summary	: Based on available data, the classification criteria are not met.			
Reproductive toxicity				
Conclusion/Summary	: Based on available data, the classification criteria are not met.			
Teratogenicity				
Conclusion/Summary	: Based on available data, the classification criteria are not met.			
Specific target organ toxi	<u>city (single exposure)</u>			
Not available.				
Conclusion/Summary	: Based on available data, the classification criteria are not met.			
Specific target organ toxicity (repeated exposure)				
Not available.				
Conclusion/Summary	: Based on available data, the classification criteria are not met.			
Aspiration hazard				
Not available.				
Conclusion/Summary	: Based on available data, the classification criteria are not met.			



Information on the likely	: Not available.
routes of exposure	
Potential acute health effect	<u>s</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness
Ingestion	cracking : No specific data.
Delayed and immediate effe	cts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and or dermatitis.
Carcinogenicity	: During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.
Mutagenicity	: No known significant effects or critical hazards.
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Acute toxicity estimates

N/A



Section 12. Ecological information

Toxicity

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

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<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: Not available.
Mobility in soil	: Given its physical and chemical characteristics, the product generally shows low soil mobility The product is insoluble and floats on water Loss by evaporation is limited

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. 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

	ADR	IMDG	ICAO/IATA
UN/ID No	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.



Section 14. Transport information

Transport in bulk according : Not available. to IMO instruments

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 inventory (AIIC)	: All components are listed or exempted.
Canada inventory (DSL/NDSL)	: All components are listed or exempted.
China inventory (IECSC)	: All components are listed or exempted.
Europe inventory (EC)	: All components are listed or exempted.
Japan inventory	 Japan inventory (CSCL): All components are listed or exempted. Japan inventory (ISHL): Not determined.
New Zealand Inventory of Chemic	als (NZIOC) : All components are listed or exempted.
Philippines inventory (PICCS)	: All components are listed or exempted.
Korea inventory (KECI)	: All components are listed or exempted.
Taiwan Chemical Substances Inv	ntory (TCSI) : All components are listed or exempted.
Thailand inventory	: Not determined.
Turkey inventory	: Not determined.
United States inventory (TSCA 8b	: All components are listed or exempted.
Vietnam inventory	: Not determined.

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

Section 16. Other information

History

Date of revision	: 2022/08/05
Date of previous revision	: No previous validation
Version	: 1



Section 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)
	N/A = Not available
	SGG = Segregation Group
	UN = United Nations
Procedure used to derive	the classification

Procedure used to derive the classification

Classification	Justification
Not classified.	

Additionnal details on the supplier of the product

TotalEnergies Marketing Botswana (Pty) Ltd Kgomokasitwa Road, Gaborone West Gaborone / BOTSWANA	TotalEnergies Marketing Burkina 1080, Avenue Kwame N'Krumah Ouagadougou / BURKINA FASO	TotalEnergies Marketing Cameroun 589, Boulevard de la Liberté Akwa - Douala B.P. 4048 Douala – Cameroun Téléphone : (237) 233 42 63 41	TOTAL CENTRAFRIQUE Avenue de l'Indépendance, BP 3295 Bangui / REPUBLIQUE CENTRAFRICAINE		
TotalEnergies Marketing Congo S.A. Rue de la Corniche Brazzaville / CONGO	TotalEnergies Marketing Côte d'Ivoire Immeuble Rive Gauche, 100 Rue des brasseurs, Zone 3 01 BP 336 - Abidjan – CÔTE D'IVOIRE	TotalEnergies Marketing Egypt Corner St 254/206 Degla Maadi Cairo / EGYPT	TOTAL ETHIOPIA B & B building, behind AU head Quarter Addis-Abeba / ETHIOPIA		
TOTAL GUINEA ECUATORIAL Malabo II / GUINEA	TotalEnergies Marketing Kenya PLC Regal Plaza, 6th Avenue Parklands, Limuru Road P.O. BOX 30736, 00100- NAIROBI – KENYA	TOTAL LESOTHO (PTY) LTD Motsoane Road, Industrial area Maseru / LESOTHO	TOTAL LIBERIA Clara town, Busrod Island Monrovia / LIBERIA		
TotalEnergies Marketing Madagasikara SA Immeuble Fitaratra, Ankorondrano 101 - Antananarivo - MADAGASCAR	TotalEnergies Marketing Malawi Ltd Private Bag 5125 Limbe, Blantyre Malawi	TotalEnergies Marketing Mali Hamdallaye ACI 2000 Rue 358 Immeuble Dakolo Bamako / MALI	TotalEnergies Marketing Gabon Blvd.de la République Libreville / GABON		
TotalEnergies Marketing Middle East FZE Burjuman Business Tower, 11th Floor Sheikh Khalifa Bin Zayed Road Dubai P.O. Box 14871 U.A.E Tel: +971 4 709 50 00 Fax: +971 4 351 91 54	TOTAL MARKETING TCHAD Parc des hydrocarbures, route de mara N'Djamena / TCHAD	TotalEnergies Marketing Maroc 146, Blvd. Mohamed Zerktouni Casablanca / MAROC	TOTAL MAURITANIE E nord- Lot n°110 Nouakhott / MAURITANIE		
TOTAL MAURITIUS Chaussée Tromelin, Quai D BP 1202 Port-Louis / MAURITIUS	TOTAL MOZAMBIQUE Av. Sociedade de Geografia n°83,Edificio Maryah - 5°andar unico Maputo / MOZAMBIQUE	TotalEnergies Marketing Namibia (Pty) Ltd 5 Otto Nitzsche Street, Klein Windhoek Windhoek / NAMIBIA	TOTAL NIGER Route de l'aéroport Niamey / NIGER		
TOTAL PETROLEUM GHANA LTD 25 Liberia Road P.O. BOX GP553 Accra / GHANA	TotalEnergies Marketing RDC SA 24, Avenue CADECO Place des Evolués KINSHASA / GOMBE	TotalEnergies Marketing Sénégal Route de l'aéroport, sur la station TotalEnergies de Ngor BP 355 Dakar / SENEGAL	TOTAL SIERRA LEONE Total house, 41 Main motor Road, Brookfields Freetown / SIERRA LEONE		



Section 16. Other information

TotalEnergies Marketing South Africa (Pty) Ltd 3 Biermann Avenue Rosebank 2196 PO Box 579, Saxonwold, 2132 South Africa	TotalEnergies Marketing Eswatini (PTY) Ltd King Sobhuza 2nd Avenue, Industrial Sites Manzini / ESWATINI	TotalEnergies Marketing Tanzania Total House – Msasani Peninsula Haile Selassie road Plot no. 1720, PO Box 1503 Dar es salaam, Tanzania Tel +255222927700	TotalEnergies Marketing Togo 69, Blvd. de la Paix Lomé / TOGO
TotalEnergies Marketing Tunisie Rue du Lac Huron 1053 Les Berges du Lac Tunis / TUNISIE	TotalEnergies Marketing Uganda Limited Plot 4, 8th Street, Industrial Area, P.O. Box 3079., Kampala, Uganda	TotalEnergies EP Nigeria Limited Plot 25, Trans Amadi Industrial Layout P.M.B 5160 and P.O.Box 696, Port Harcourt Nigeria.	TOTAL ZAMBIA Mungwi Road, Plot 1709 -A Industrial Area Lusaka / ZAMBIA
TOTAL ZIMBABWE Total house, 1 Auckland road - Southerton Harare / ZIMBABWE	Totalgaz Southern Africa (Pty) Ltd. 2nd Floor, Tygervalley, Chambers Two Bellville, 7530 Western Cape - South Africa Tel: +27 21 941 4000 Fax: +27 21 941 4001		

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.