Conforms to UN GHS Classification

SAFETY DATA SHEET



TROYSAN S61 POWDER

Section 1. Identification

GHS product identifier	: TROYSAN S61 POWDER	
Code	: 22423	
Other means of identification	: Not available.	
Product type	: Powder.	
Material uses	: Other non-specified industry: Dry-film fungicide and algaecide for coatings	
Supplier's details	: Troy Siam Company Limited 242 Soi Chalongkrung 31, Ladkrabang Industrial Estate Lamplathew, Ladkrabang Bangkok 10520 Thailand Tel: 66-2-705-7500 Fax: 66-2-705-7599	
	Emergency Contact name: Kiat Wisanrakkit - General Manager Tel: +66-37-204-250 Hand Phone: +66-874980498	
	Anupop Sasook Tel: +66-37-204-250 Ext 7640 Hand Phone: +66-968398452	

Emergency telephone number (with hours of operation)

revision

: +32 (0) 14 58 45 45 (24/7)

Section 2. Hazards identification

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Disposal		contents and container ational regulations.	in accordance with al	l local, regional, national
Storage	: Not applica	able.		
Response	feel unwell		: Call a POISON CEN	NTER or physician if you
Prevention	: Avoid relea	ase to the environment.		
Precautionary statements	2			
Hazard statements		rmful if swallowed. to aquatic life with long l	asting effects.	
Signal word	: Warning			
GHS label elements Hazard pictograms	:	>		
Classification of the substance or mixture	AQUATIC)XICITY (oral) - Categor HAZARD (ACUTE) - Ca HAZARD (LONG-TERM	tegory 1	

issue

Section 2. Hazards identification

Other hazards which do not : May form explosible dust-air mixture if dispersed. **result in classification**

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

CAS number/other identifiers

CAS number	: Not applicable.
EC number	: Mixture.

Ingredient name	%	CAS number	Classification
Kaolin	≥50 - ≤75	1332-58-7	Not classified.
Terbutryn	20	886-50-0	ACUTE TOXICITY (oral) - Category 4 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
2-Benzimidazole carbamic acid, methyl ester	20	10605-21-7	AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1

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	<u>/ first aid measures</u>
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
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. 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	 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. 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.
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Section 4. First aid measures

Most important symptoms/effects, acute and delayed						
Potential acute health effects						
Eye contact	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.					
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.					
Skin contact	: No known significant effects or critical hazards.					
Ingestion	: May be harmful if swallowed.					
Over-exposure signs/symp	<u>toms</u>					
Eye contact	: Adverse symptoms may include the following: irritation redness					
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing					
Skin contact	: No specific data.					
Ingestion	: No specific data.					
Indication of immediate medical 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 may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.					

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical powder.
Unsuitable extinguishing media	: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
Specific hazards arising from the chemical	: May form explosible dust-air mixture if dispersed. This material is very toxic 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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.			
Methods and materials for co	onta	ainment and cleaning up			
Small spill	:	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.			
Large spill	:	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. 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	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid release to the environment. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and wel ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. 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.
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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

	Ingredient name			Exposure limits		
	Kaolin			ACGIH TLV (United States, 4/2014). TWA: 2 mg/m ³ 8 hours. Form: Respirable fraction		
	opropriate engineering ontrols	:	vapor or mist, use process enclosures controls to keep worker exposure to a recommended or statutory limits. The	lse only with adequate ventilation. If user operations generate dust, fumes, gas, apor or mist, use process enclosures, local exhaust ventilation or other engineering ontrols to keep worker exposure to airborne contaminants below any ecommended or statutory limits. The engineering controls also need to keep gas, apor or dust concentrations below any lower explosive limits. Use explosion-proof entilation equipment.		
	nvironmental exposure ontrols	:	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.			
<u>In</u>	dividual protection measur	<u>es</u>				
ł	lygiene 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.			
E	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. If operating conditions cause high dust concentrations to be produced, use dust goggles.			
5	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 addition selected based on the task being perfe approved by a specialist before handli	ormed and the risks involved and should be		
F	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

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Appearance	
Physical state	: Solid. [Powder.]
Color	: White. Brown. [Light]
Odor	: Characteristic. [Slight]
Odor threshold	: Not available.
рН	: 6 to 8 [Conc. (% w/w): 10%]
Melting point/freezing point	: Not available.
Initial boiling point and	: Not available.
boiling range	
Flash point	: Not available.
Burning time	: Not available.
Burning rate	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 0.3 to 0.5
Solubility	: Soluble in the following materials: cold water and hot water.
Dispersibility properties	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
SADT	: Not available.
Viscosity	: Not available.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	The product is stable.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Kaolin	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Terbutryn	LC50 Inhalation Dusts and mists	Rat	>8 g/m³	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat - Male,	2045 mg/kg	-
		Female		
	LD50 Oral	Rat - Female	1000 to 1470	-
			mg/kg	
2-Benzimidazole carbamic acid, methyl ester	LC50 Inhalation Dusts and mists	Rat	>5.6 mg/l	4 hours
	LD50 Dermal	Rabbit	>2020 mg/kg	-
	LD50 Oral	Rat	>10000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-Benzimidazole carbamic acid, methyl ester	Eyes - Cornea opacity	Rabbit	0	-	-
	Skin - Primary dermal irritation index (PDII)	Rabbit	0	24 hours	72 hours

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Terbutryn 2-Benzimidazole carbamic acid, methyl ester	skin skin	Rabbit Guinea pig	Not sensitizing Not sensitizing

Mutagenicity

Product/ingredient name	Test	Experiment	Result
2-Benzimidazole carbamic acid, methyl ester	-	Experiment: In vivo Subject: Mammalian-Animal Cell: Germ	Negative

Carcinogenicity

Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
2-Benzimidazole carbamic acid, methyl ester	-	Negative	Negative		Oral: 2000 ppm	-

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Section 11. Toxicological information

Information on the likely routes of exposure	:	Not available.
Potential acute health effect	<u>s</u>	
Eye contact	:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation	:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	1	May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effects 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.
Detential delayed offects		

Potential delayed effects : Not available.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure		
Terbutryn	Sub-chronic NOAEL Dermal	Rabbit	1000 mg/kg	-		
	Sub-chronic LOAEL Dermal	Rabbit	>1000 mg/kg	-		
2-Benzimidazole carbamic acid, methyl ester	Sub-acute LOAEL Dermal	Rabbit	2000 mg/kg	10 days		
General	: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.					
Carcinogenicity	: No known significant effects	: No known significant effects or critical hazards.				
Mutagenicity	: No known significant effects or critical hazards.					
Teratogenicity	: No known significant effects	: No known significant effects or critical hazards.				
Developmental effects	: No known significant effects	: No known significant effects or critical hazards.				
Fertility effects	: No known significant effects or critical hazards.					

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	5000 mg/kg

Toxicity

Section 12. Ecological information

Product/ingredient name	Result	Species
Terbutryn	Acute EC50 0.013 mg/l	Algae - Selenastrum capricornutum
	Acute EC50 2.66 mg/l	Daphnia
	Acute LC50 1.3 mg/l	Fish - Lepomis machrochiris
	Acute LC50 1.1 mg/l	Fish
	Acute LC50 >1000 mg/l	Micro-organism
	Chronic NOEC 1.3 mg/l	Daphnia - Daphnia magna
	Chronic NOEC 0.84 mg/l	Fish - Fathead minnow
	Chronic NOEC 0.01 mg/l	Fish - Rainbow trout
2-Benzimidazole carbamic acid, methyl ester	EC50 >1000 mg/l	Micro-organism
	NOEC 0.5 mg/l	Algae - Selenastrum capricornutum
	NOEC 0.0133 mg/l	Crustaceans - Chironomus riparius
	NOEC 0.0015 mg/l	Daphnia - Daphnia magna
	NOEC 0.01 mg/l	Daphnia - Daphnia magna
	NOEC 0.011 mg/l	Fish
	NOEC >1000 mg/l	Micro-organism
	Acute EC50 1.3 mg/l	Algae - Selenastrum capricornutum

Acute EC50 0.15 mg/l

Acute LC50 0.83 mg/l

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Terbutryn 2-Benzimidazole carbamic acid, methyl ester	-	-	Not readily Not readily

Daphnia

Fish

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Terbutryn 2-Benzimidazole carbamic acid, methyl ester	3.66 1.51	-	low low

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects : No known sig

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods: The generation of waste should be avoided or minimized wherever possible.
Disposal of this product, solutions and any by-products should at all times comply
with the requirements of environmental protection and waste disposal legislation
and any regional local authority requirements. Dispose of surplus and non-
recyclable products via a licensed waste disposal contractor. Waste should not be
disposed of untreated to the sewer unless fully compliant with the requirements of
all authorities with jurisdiction. Waste packaging should be recycled. Incineration or
landfill should only be considered when recycling is not feasible. This material and
its container must be disposed of in a safe way. Care should be taken when

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Exposure 168 hours

48 hours 96 hours 96 hours 3 hours 21 days 35 days 21 days 3 hours

28 days

21 days 21 days 79 days

72 hours

48 hours

96 hours

Section 13. Disposal considerations

handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	IATA	
UN number	UN3077	UN3077	UN3077	
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (Contains: Carbendazim, Terbutryn)	Environmentally hazardous substance, solid, n.o.s. (Contains: Carbendazim, Terbutryn)	Environmentally hazardous substance, solid, n.o.s. (Contains: Carbendazim, Terbutryn)	
Transport hazard class(es)	9	9	9	
Packing group	111	Ш	Ш	
Environmental hazards	Yes.	Yes.	Yes.	
Additional information	This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <u>Emergency schedules (EmS)</u> F-A, S-F	This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6. 1.1 and 5.0.2.8.	

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 Annex II of MARPOL and the IBC Code

Section 15. Regulatory information

Safety, health and environmental regulations specific for the product	: No known specific national and/or regional regulations applicable to this product (including its ingredients).
Product registration	 Europe inventory: All components are listed or exempted. United States inventory (TSCA 8b): All components are listed or exempted. Canada inventory: At least one component is not listed. China inventory (IECSC): All components are listed or exempted. Japan inventory (ENCS): At least one component is not listed. Japan inventory (ISHL): Not determined. Korea inventory: All components are listed or exempted. Philippines inventory (PICCS): At least one component is not listed. Malaysia Inventory (EHS Register): Not determined. Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.

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Section 15. Regulatory information

Turkey inventory: Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Australia inventory (AICS): All components are listed or exempted.

Section 16. Other information

<u>History</u>	
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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 = International Air Transport Association IBC = 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 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.

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