SAFETY DATA SHEET

Oxygen, Refrigerated Liquid



Section 1. Identification

GHS product identifier	: Oxygen, Refrigerated Liquid
Chemical name	: oxygen
Other means of identification	: Liquid Oxygen; LOX
Product use	: Synthetic/Analytical chemistry.
Synonym SDS #	: Liquid Oxygen; LOX : 001190
Supplier's details	 The Aero ALL-GAS Co. & The ALL-GAS & Equipment Co. 3150 Main Street Hartford, CT 06120 ph:(860) 278-AERO fax:(860) 527-AERO

: 1-800-424-9300 Chemtrec

Emergency telephone number (with hours of operation)

Section 2. Hazards identification

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Storage	: Store in a well-ventilated place.
Response	 Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical attention. In case of fire: Stop leak if safe to do so.
Prevention	: Wear cold insulating gloves and face shield. Keep away from clothing, incompatible materials and combustible materials. Keep reduction valves free from grease and oil. Use and store only outdoors or in a well ventilated place.
General	: Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Open valve slowly. Use only with equipment cleaned for Oxygen service. Always keep container in upright position. Do not change or force fit connections. Avoid spills. Do not walk or roll equipment over spills.
Precautionary statements	
Hazard statements	 May cause or intensify fire; oxidizer. Contains refrigerated gas; may cause cryogenic burns or injury. May cause frostbite. Combustibles in contact with Liquid Oxygen may explode on ignition or impact.
Signal word	: Danger
GHS label elements Hazard pictograms	
CUC label elemente	
substance or mixture	GASES UNDER PRESSURE - Refrigerated liquefied gas
Classification of the	: OXIDIZING GASES - Category 1
OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 2. Hazards identification

Disposal

: Not applicable.

Hazards not otherwise classified

: Liquid can cause burns similar to frostbite.

Section 3. Composition/information on ingredients

Substance/mixture	: Substance
Chemical name	: oxygen
Other means of	: Liquid Oxygen; LOX
identification	

CAS number/other identifiers

Date of issue/Date of revision

CAS number	: 7782-44-7		
Product code	: 001190		
Ingredient name		%	CAS number
oxygen		100	7782-44-7

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 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. Continue to rinse for at least 10 minutes. 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	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. In case of contact with liquid, warm frozen tissues slowly with lukewarm water and get medical attention. Do not rub affected area. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe. Ingestion of liquid can cause burns similar to frostbite. If frostbite occurs, get medical attention. 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. As this product rapidly becomes a gas when released, refer to the inhalation section.

Most important symptoms/effe	cts, acute and delayed	
Potential acute health effects		
Eye contact	May cause eye irritation. Extremely cold material. Liquid can cause burns similar to frostbite.)
Inhalation	No known significant effects or critical hazards.	

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Section 4. First aid measures

Skin contact	 May cause skin irritation. Extremely cold material. Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
Frostbite	: Try to warm up the frozen tissues and seek medical attention.
Ingestion	: Ingestion of liquid can cause burns similar to frostbite.
<u>Over-exposure signs/symp</u>	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: frostbite
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: frostbite
Ingestion	: Adverse symptoms may include the following: frostbite
Indication of immediate mediate	dical 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.

See toxicological information (Section 11)

Section 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	: Contains gas under pressure. Contains refrigerated gas. Oxidizing material. This material increases the risk of fire and may aid combustion. Contact with combustible material may cause fire. In a fire or if heated, a pressure increase will occur and the container may burst or explode.
Hazardous thermal decomposition products	: No specific data.
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. Contact supplier immediately for specialist advice. 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. For incidents involving large quantities, thermally insulated undergarments and thick textile or leather gloves should be worn.

Section 6. Accidental release measures

Personal precautions, protect	tiv	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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. 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	:	Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. 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	nta	ainment and cleaning up
Small anill		Immediately context amergancy nervennel. Stan lock if without risk. I loc anoth proof

Small spill : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

Large spill: Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof
tools and explosion-proof equipment. 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	ut on appropriate personal protective equipment (see Section 8). Contains gessure. Contains refrigerated gas. Do not get in eyes or on skin or clothing eathing gas. Keep away from clothing, incompatible materials and combust aterials. Keep reduction valves free from grease and oil. Empty containers oduct residue and can be hazardous. Do not puncture or incinerate contain guipment rated for cylinder pressure. Close valve after each use and when e rotect cylinders from physical damage; do not drag, roll, slide, or drop. Use and truck for cylinder movement. Never allow any unprotected part of the body to touch uninsulated pipes or ventain cryogenic liquids. Prevent entrapment of liquid in closed systems or pi thout pressure relief devices. Some materials may become brittle at low term and will easily fracture.	. Avoid ible retain er. Use empty. a suitable essels that ping
Advice on general occupational hygiene	ating, drinking and smoking should be prohibited in areas where this materia andled, stored and processed. Workers should wash hands and face before inking and smoking. Remove contaminated clothing and protective equipmentering eating areas. See also Section 8 for additional information on hygien easures.	e eating, ent before
Conditions for safe storage, including any incompatibilities	ore in accordance with local regulations. Store in a segregated and approve ore in a dry, cool and well-ventilated area, away from incompatible materials action 10). Separate from acids, alkalies, reducing agents and combustibles ontainer tightly closed and sealed until ready for use. Cylinders should be sto oright, with valve protection cap in place, and firmly secured to prevent falling nocked over. Cylinder temperatures should not exceed 52 °C (125 °F).	s (see s. Keep ored

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Section 8. Exposure controls/personal protection

Control parameters

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Occupational exposure limits
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None.

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	es	
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. If contact with the liquid is possible, insulated gloves suitable for low temperatures should be worn. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

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Critical temperature	: -118.15°C (-180.7°F)			
Melting/freezing point	: -218.4°C (-361.1°F)			
Boiling/condensation point	: -183°C (-297.4°F)			
Molecular formula	: 02			
Molecular weight	: 32 g/mole			
Color	: Colorless. Blue.			
Physical state	: Cryogenic Liquid			
Appearance				

Section 9. Physical and chemical properties

Odor	:	Odorless.
Odor threshold	:	Not available.
рН	1	Not available.
Flash point	:	[Product does not sustain combustion.]
Burning time	:	Not applicable.
Burning rate	1	Not applicable.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Extremely flammable in the presence of the following materials or conditions: reducing materials, combustible materials and organic materials.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	1	Not available.
Vapor density	1	1.1 (Air = 1)
Specific Volume (ft ³ /lb)	:	12.0482
Gas Density (lb/ft ³)	1	0.083
Relative density	:	Not applicable.
Solubility	1	Not available.
Solubility in water	1	Not available.
Partition coefficient: n- octanol/water	:	0.65
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
SADT	1	Not available.
Viscosity	1	Not applicable.

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	: No specific data.
Incompatibility with various substances	: Extremely reactive or incompatible with the following materials: oxidizing materials, reducing materials and combustible materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

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)

Not available.

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health	
Eye contact	 May cause eye irritation. Extremely cold material. Liquid can cause burns similar to frostbite.
Inhalation	: No known significant effects or critical hazards.
Skin contact	 May cause skin irritation. Extremely cold material. Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
Ingestion	: Ingestion of liquid can cause burns similar to frostbite.

Symptoms related to t	he physical, chemical and toxicological characteristics
Eye contact	 Adverse symptoms may include the following: frostbite
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: frostbite
Ingestion	: Adverse symptoms may include the following: frostbite

Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure

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Section 11. Toxicological information

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Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>s</u>
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.

Numerical measures of toxicity

Acute toxicity estimates Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
oxygen	0.65	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

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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. Empty ALL-GAS owned pressure vessels should be returned to ALL-GAS. 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. Do not puncture or incinerate container

DOT TDG **IMDG** ΙΑΤΑ **Mexico** UN1073 **UN number** UN1073 UN1073 UN1073 UN1073 Oxygen, Refrigerated Oxygen, Refrigerated Oxygen, Refrigerated Oxygen, Refrigerated Oxygen, Refrigerated **UN proper** Liquid Liquid Liquid Liquid Liquid shipping name Transport 2.2 (5.1) 2.2 (5.1) 2.2 (5.1) 2.2 (5.1) 2.2 (5.1) hazard class(es) **Packing group Environment** No. No. No. No. No. Additional Limited guantity Explosive Limit and Passenger and Cargo Limited Quantity Index Yes. **Aircraft**Quantity information 0 125 limitation: 75 kg Packaging instruction Cargo Aircraft Only Passenger aircraft ERAP Index Quantity limitation: 150 Quantity limitation: 75 3000 kq ka Passenger Carrying Cargo aircraft Ship Index Quantity limitation: 150 50 kq Passenger Carrying Special provisions Road or Rail Index A52 75 Special provisions 42

Section 14. Transport information

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

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 73/78 and the IBC Code

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Section 15. Regulatory information

U.S. Federal regulations		TSCA 8	(a) CDR Exer	nnt/Parti	al exemption	n: This material	is listed or ex	emoted
0.0. I ederal regulations	- 1		. ,	•	-	naterial is listed		•
		United	States invent	UTY (130	A ODJ . 11115 11		i or exempted.	
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Not liste	d					
Clean Air Act Section 602 Class I Substances	:	Not liste	d					
Clean Air Act Section 602 Class II Substances	:	Not liste	d					
DEA List I Chemicals (Precursor Chemicals)	:	Not liste	d					
DEA List II Chemicals (Essential Chemicals)	:	Not liste	d					
SARA 302/304								
Composition/information	on	<u>ingredie</u>	nts					
No products were found.								
SARA 304 RQ	:	Not app	licable.					
<u>SARA 311/312</u>								
Classification	:	Sudden	release of pre	essure				
Composition/information	on	<u>ingredie</u>	<u>nts</u>					
Name			%	Fire	Sudden	Reactive	Immediate	Delayed

Name	%	hazard	Sudden release of pressure		(acute) health	Delayed (chronic) health hazard
oxygen	100	No.	Yes.	No.	No.	No.

State regulations		
Massachusetts	:	This material is listed.
New York	:	This material is not listed.
New Jersey	:	This material is listed.
Pennsylvania	:	This material is listed.
Canada inventory	:	This material is listed or exempted.
International regulations		
International lists	:	Australia inventory (AICS): This material is listed or exempted. China inventory (IECSC): This material is listed or exempted. Japan inventory: Not determined. Korea inventory: This material is listed or exempted. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): This material is listed or exempted. Philippines inventory (PICCS): This material is listed or exempted. Taiwan inventory (CSNN): Not determined.
Chemical Weapons Convention List Schedule I Chemicals	:	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	Not listed
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Section 15. Regulatory information

Chemical Weapons : Not listed Convention List Schedule III Chemicals

<u>Canada</u>			
WHMIS (Canada)	: Class A: Compressed gas. Class C: Oxidizing material.		
	CEPA Toxic substances : This material is not listed. Canadian ARET : This material is not listed. Canadian NPRI : This material is not listed.		
	Alberta Designated Substances: This material is not listed.		
	Ontario Designated Substances: This material is not listed.		
	Quebec Designated Substances: This material is not listed.		

Section 16. Other information

Canada Label requirements : Class A: Compressed gas. Class C: Oxidizing material.

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 SDSs 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.)

Date of issue/Date of revision



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

<u>History</u>	
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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 73/78 = International Convention for the Prevention of Pollution From Ships,				
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)				
	UN = United NationsACGIH – American Conference of Governmental Industrial				
	Hygienists				
	AIHA – American Industrial Hygiene Association				
	CAS – Chemical Abstract Services				
	CEPA – Canadian Environmental Protection Act				
	CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act				
	(EPA)				
	CFR – United States Code of Federal Regulations				
	CPR – Controlled Products Regulations				
	DSL – Domestic Substances List				
	GWP – Global Warming Potential				
	IARC – International Agency for Research on Cancer				
	ICAO – International Civil Aviation Organisation				
	Inh – Inhalation				
	LC – Lethal concentration				
	LD – Lethal dosage				
	NDSL – Non-Domestic Substances List				
	NIOSH – National Institute for Occupational Safety and Health				
	TDG – Canadian Transportation of Dangerous Goods Act and Regulations				
	TLV – Threshold Limit Value				
	TSCA – Toxic Substances Control Act				
	WEEL – Workplace Environmental Exposure Level				
	WHMIS – Canadian Workplace Hazardous Material Information System				
References	· Not available				

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.

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