

SOL Fire Lite™ Fuel Cubes Page 1 of 9

Prepared according to 29CFR 1910.1200, Regulation (EC) No. 1272/2008 (GHS) and Canadian Controlled Products Act (CPR)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SOL Fire Lite™ Fuel Cubes HMIS Hazard Rating

Health 1

Flamability 2 Reactivity 0

SYNONYMS: Personal Protection X

Item Number Item Name

0140-1246 SOL Fire Lite™ Fuel Cubes, 12-Pack

SDS Date: January 6, 2021

SDS Revision No.: 0

USE: Polymerised-alcohol fuel for outdoor campfires. Intended for use as a firelighter and/or cooking fuel.

Use in accordance with product instructions.

MANUFACTURER: Adventure Ready Brands
ADDRESS: 944 Industrial Park Rd

Littleton, NH 03561

INFORMATION CALLS: 800-258-4696

E-Mail: cs@adventurereadybrands.com

FAX PHONE: 603-444-6735

EMERGENCY PHONE: Spills:(800) 354-2382 (Veolia)

Medical Information: (800) 258-4696 (Adventure Ready Brands)

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Solid, colorless cube with alcohol odor.

HAZARD CLASSIFICATION: Flammable Solid (Category 2)

Eye Irritant (Category 2)

GHS Label elements, including precautionary statements

Pictogram

(4)

Signal word: WARNING

Hazard statement(s)

H228 Flammable solid.

H319 Causes serious eye irritation.

Precautionary statement(s)

P101 If medical advice is needed, have product container or label at hand.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapours.

P271 Use only outdoors or in a well-ventilated area.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P370 + P378 In case of fire: Use alcohol resistant foam, Dry Powder, Carbon Dioxide, Water Fog, Sand.

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Other hazards This product is highly flammable. With container open, explosive vapour/air may be formed even at normal room temperatures.

During combustion/fire, the product becomes molten and exhibits flow.

In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.

ROUTES OF EXPOSURE: Inhalation

POTENTIAL HEALTH EFFECTS

INHALATION: Specific test data for the substance or mixture is not available. May cause mechanical respiratory irritation. May cause

drowsiness, dizziness and/or headaches (based on components).

SKIN CONTACT: Specific test data for the substance or mixture is not available. Repeated exposure may cause skin dryness or cracking.

EYE CONTACT: Specific test data for the substance or mixture is not available. Causes serious eye irritation. May cause redness and pain.

INGESTION: Specific test data for the substance or mixture is not available. Gastrointestinal symptoms; nausea, upset stomach and/or

vomiting.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Conc.(%)	CAS NO.	EC NO.	Classification
Ethanol, denatured	85-95	64-17-5	200-578-6	Flammable Liquid (Category 2),
				Eye Irrititant (Category 2A)
Supplier Trade Secret	5 - 15	Proprietary	Proprietary	

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 8 - "EXPOSURE CONTROLS/PERSONAL PROTECTION" for exposure guidelines

SECTION 4: FIRST AID MEASURES

INHALATION: Remove to fresh air and rest. If not breathing, give artificial respiration. If symptoms persist, seek medical attention..

CONTACT WITH SKIN: Remove contaminated clothing. Wash affected area with soap and water.

CONTACT WITH EYES: Flush with water for at least 15 minutes. Remove contact lenses if present and safe to do. Avoid washing chemical from one eye

into the other. Ensure to rinse thoroughly under the eyelid. If symptoms persist, seek medical attention.

INGESTION: Do NOT induce vomiting. Rinse mouth immediately and give plenty of water or milk to drink. If symptoms persist, seek medical

attention. Never give an unconscious person anything by mouth.

SECTION 5: FIRE-FIGHTING MEASURES

FIRE AND EXPOLSIVE PROPERTIES: No information available

Flash Point: See Section 9

Flammable Limits: No data available

EXTINGUISHING MEDIA: Alcohol-resistant foam, dry powder, carbon dioxide, water fog and sand. Do not use high-pressure water jets.

SPECIFIC HAZARDS: Carbon oxides, nitrogen oxides (NOx) and oxides of sodium may be produced during combustion.

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Product may produce vapour which may be invisible, heavier than air and spread along the ground. During combustion, solid fuel will become molten and exhibit flow. Vapours may form explosive mixtures with air. Flash-back possible over some distance.

PROTECT EQUIPMENT FOR FIREFIGHTERS: Wear self-contained breathing apparatus. Wear full-protective gear if necessary. Keep containers cool

with water spray. Water run-off or discharge should not enter drains.

FURTHER INFORMATION: No information available...

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all

sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive

concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

ENVIRONMENTAL PRECAUTIONS: Ensure waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably

labelled container. Do not allow water run-off or discharge to enter drains or environment.

METHOD FOR CONTAINMENT AND CLEAN-UP:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13). Collect waste absorbent with either an electrically protected vacuum cleaner or by wet-brushing. Wash area thoroughly with water after.

SECTION 7: HANDLING AND STORAGE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

HANDLING: Avoid skin and eye contact. Avoid spillages. Avoid inhalation of vapour or mist. Keep away from sources of ignition. No smoking.

Take measures to prevent the build-up of electrostatic charge. If left exposed, flammable and irritating vapours will be emitted.

Ensure adequate ventilation. For precautions see section 2.

STORAGE: Store in a cool, dry place. Keep container closed in a well-ventilated place. Keep away from direct sunlight and sources of heat

or ignition. Do not store with oxidising agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS:

Due to the nature of the product, workplace exposure limits are unlikely to be exceeded. The product has not been tested for workplace exposure limits when used as stipulated in Section 1.

ENGINEERING CONTROLS: Provide adequate ventilation to ensure the defined work place exposure limits are not exceeded.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Eye/face protection Contact lenses should be avoided when working with this product. Safety glasses, when worn, should comply with

EN 166.

Skin and body protection Where possible, wear suitable gloves. As the product is a mixture of several substances, the durability of the glove

material cannot be calculated in advance and should be tested before use. Protective gloves should be replaced is damaged or otherwise compromised through wear and tear. Protective gloves should comply with EN 374.

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Due to the nature/size of the product, specific clothing is not usually necessary. Impervious clothing, Flame-retardant

antistatic protective clothing may be worn when handling large quantities.

Respiratory protection Due to the nature of the product, no personal respiratory protective equipment is normally required in well ventilated

areas. In case of insufficient ventilation, wear suitable respiratory aid equipment. A Type A filter is recommended

and mask to EN 143.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

EXPOSURE GUIDELINES:

SOLUBILITY IN WATER:

SOLUBILITY IN SOLVENTS:

Ingredient	CAS NO.	%	Exposure Limits				
			ACGIH TLV-TWA	OSHA PEL-TWA	NIOSH IDLH		
Ethanol	64-17-5	85-95	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m3 (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m3	IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m3		
Supplier Trade Secret	Proprietary	5-15	TWA: 10 mg/m3 inhalable particulate matter TWA: 3 mg/m3 respirable particulate matter				

Ingredient	Alberta	British Columbia	Ontario TWAEV	Quebec
Ethanol	TWA: 1000 ppm TWA: 1880 mg/m3	STEL: 1000 ppm	STEL: 1000 ppm	STEL: 1000 ppm
Supplier Trade Secret	TWA: 10 mg/m3	TWA: 10 mg/m3	TWA: 10 mg/m3 TWA: 3 mg/m3	TWA: 10 mg/m3

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Solid, colorless. Usually translucent, sometimes opaque
ODOR:	Alcohol
pH:	8
BOILING POINT:	78°C (172°F)
MELTING POINT:	60-65°C (140-149°F)
RELATIVE DENSITY (H2O = 1) @20°C:	0.84g/cm3
VAPOR PRESSURE @20°C:	5.85kPa
VAPOR DENSITY (AIR = 1):	No data available
FLASH POINT:	17°C (Cleveland open cup; BS EN ISO 2592:2001)

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Partially soluble (@20°C)

No data available



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VISCOSITY: No data available

VOLATILE ORGANIC COMPOUNDS (VOC): <36% No data available

PARTITION COEFFICIENT: No data available

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions..

CONDITIONS TO AVOID: Heat, flames, sparks, extremes of temperature and direct sunlight.

INCOMPATIBILITY (MATERIAL TO AVOID): Alkali metals, ammonia, oxidising reagents, peroxides.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon oxides. Other decomposition products - no data available. In the event of fire, see

section 5.

HAZARDOUS POLYMERIZATION: Does not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

The preparation has not been tested for all toxicological effects; some are classified on the basis of the known hazards of the components.

Acute oral toxicity: LD50 - Not determined

Method:

Source:

Acute inhalation toxicity: LC50 - Not determined

Method: Source:

Acute dermal toxicity: LDLo - Not determined

Method:

Source:

Irritant effect on skin: Not determined

Method:

Source:

Irritant effect on eyes: Not determined

Method:

Source:

Sensitization: Not determined

Method:

Source:

Mutagenicity: Not determined

Carcinogenicity/Reproductive toxicity: Classification based on data available for ingredients.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Ingredient	ACGIH	IARC	NTP	OSHA
Ethanol	A3	Group 1	Known	Х

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

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OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Specific Target Organ Toxicity Single exposure (GHS) - Ethanol is a CNS depressant. Exposure to vapours may cause dizziness,

drowsiness and/or headaches.

Repeated exposure (GHS) - No data available. Similar symptoms to STOT - single exposure may occur.

Signs and Symptoms of Exposure

May cause dizziness, drowsiness and/or headaches May cause respiratory irritation.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethanol	= 7060 mg/kg (Rat)	ı	= 124.7 mg/L (Rat)4 h

POTENTIAL HEALTH EFFECTS

INHALATION: Specific test data for the substance or mixture is not available. May cause mechanical respiratory irritation. May cause

drowsiness, dizziness and/or headaches (based on components).

SKIN CONTACT: Specific test data for the substance or mixture is not available. Repeated exposure may cause skin dryness or cracking.

EYE CONTACT: Specific test data for the substance or mixture is not available. Causes serious eye irritation. May cause redness and pain.

INGESTION: Specific test data for the substance or mixture is not available. Gastrointestinal symptoms; nausea, upset stomach and/or

vomiting.

TARGET ORGANS: Nervous system; Respiratory system

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethanol	No data available	96h LC50: 12.0 - 16.0 mL/L	EC50 = 34634 mg/L 30 min	48h LC50: 9268 - 14221 mg/L
		(Oncorhynchus mykiss) 96h	EC50 = 35470 mg/L 5 min	(Daphnia magna) 48h EC50: =
		LC50: 13400 - 15100 mg/L	_	2 mg/L (Daphnia magna)
		(Pimephales promelas) 96h		
		LC50: > 100 mg/L (Pimephales		
		promelas)		

Persistence and Degradability No information available.

Bioaccumulation

Component Information

Ingredient	Partition coefficient
Ethanol	-0.32

Mobility No information available.

Other adverse effects Will dissolve and disperse in an aqueous environment. Do not flush into surface water or sanitary sewer system. Avoid subsoil

penetration.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Do not reuse any empty containers.

US: This product is a hazardous liquid waste (D001) as defined in Resource Conservation Recovery Act Regulations (40 CFR 261) and should be disposed of according to local, state and Federal regulations. Dispose of partially filled and empty containers by wrapping and discarding in trash.

California Waste Codes: 331

This product contains one or more substances that are listed with the State of California as a hazardous waste.

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Ingredient	California Hazardous Waste
Ethanol	Toxic
	Ignitable

International: This product should not be disposed of via the drains or by landfill. Disposal must be in accordance with current national and local regulations. Chemical residues generally count as special waste, and their disposal may be regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities or approved waste disposal companies who will advise you on how to dispose of special waste.

General EU requirements are given in the Waste Framework Directive (75/442/EEC) and the Hazardous Waste Directive (91/689/EEC). Packaging may contain residues of the product and should be treated accordingly

SECTION 14: TRANSPORT INFORMATION

SHIPPING INFORMATION: Marine Pollutant: No

Regulation	UN No.	Proper Shipping Name	Class	Package Group	Additional Information
U.S. Department of Transportation (DOT)	UN1325	Flammable Solid, Organic, N.O.S, (Ethanol Mixture)	4.1	3	Limited Qty Exception Inner packaging < 5.0 kg net Outer Package < 30.0 kg gross
Canadian Transportation of Dangerous Goods (TDG)	UN1325	Flammable Solid, Organic, N.O.S, (Ethanol Mixture)	4.1	3	Limited Qty Exception Inner packaging < 5.0 kg net Outer Package < 30.0 kg gross
International Maritime Dangerous Goods (IMDG)	UN1325	Flammable Solid, Organic, N.O.S, (Ethanol Mixture)	4.1	3	Limited Qty Exception Inner packaging < 5.0 kg net Outer Package < 30.0 kg gross
International Air Transport Assoc. (IATA)	UN1325	Flammable Solid, Organic, N.O.S, (Ethanol Mixture)	4.1	3	Limited Qty Exception per Packing Inst. Y443 Inner packaging < 1.0 kg net Outer Package < 10.0 kg net

The transportation regulations are cited according to international regulations and in the form applicable to the United States and Canada.

Possible national deviations in other countries are not considered.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCE CONTROL ACT): All components of this product are listed or exempt on the TSCA list

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None

CERCLA HAZARDOUS SUBSTANCE: None CERCLA REPORTABLE QUANITIY: None

RCRA 261 (RESOURCE CONSERVATION RECOVERY ACT): This product is defined as a hazardous waste (D001).

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Section 302 Extremely Hazardous Substances (TPQ): None

311/312 HAZARD CLASS: None
313 REPORTABLE INGREDIENTS: None

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U.S. STATE REGULATIONS:

California Proposition 65 Warning: The combustion of wood, charcoal, and other fuels can expose you to chemicals including carbon monoxide and soot, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

This product contains the following Proposition 65 chemicals.

Ingredient	California Proposition 65
Ethanol	Carcinogen
	Developmental

Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

States Right to Know:

Ingredient	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Ethanol	Χ	Х	Χ	-	X

CANADIAN REGULATIONS:

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

WHMIS CLASSIFCATION:

Flammable Solid (Category 2)
Eye Irritant (Category 2)





DOMESTIC SUBSTANCE LIST (DSL)/NON-DOMESTIC SUBSTANCE LIST (NDSL): All components are listed or exempt

EU REGULATIONS:

Labeling in accordance with EC-Directives

Hazard symbols





Flammable Solid (Category 2)

Eye Irritant (Category 2)

Hazardous component(s) to be indicated on label - Ethanol 64-17-5

H-statements	H228 Flammable solid	
	H319 Causes serious eye irritation	
P-statements	P101 If medical advice is needed, have product container, or labe	l at hand.
	P102 Keep out of reach of children.	
	P103 Read label before use.	
	P210 Keep away from heat, hot surfaces, sparks, open flames an	d other ignition sources. No smoking.
	P240 Ground/bond container and receiving equipment.	
	P241 Use explosion-proof electrical/ventilating/light/equipment.	
	P261 Avoid breathing vapors.	
	P264 Wash hands thoroughly after handling.	
	P271 Use only outdoors or in a well-ventilated area.	
	P280 Wear protective gloves/protective clothing/eye protection/fa	ce protection.
	P304 + P340 + P312 IF INHALED: remove victim to fresh air and kee	at rest in a position comfortable for breathing. Call a

to do. Continue rinsing.

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

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POISON CENTRE or doctor/physician if you feel unwell.



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P337 + P313 If eye irritation persists get medical advice/attention.

P370 + P378 In case of fire: Use Alcohol resistant foam, Dry Powder, Carbon Dioxide, Water Fog, Sand.
P501 Dispose of container/packaging in accordance with local regulations on waste disposal.

EUH066 Repeated exposure may cause skin dryness or cracking.

INTERNATIONAL REGULATIONS

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

SECTION 16: OTHER INFORMATION			
HMIS			
Health: 1	Flammability: 2	Reactivity: 0	
Special: X			

4=extreme 3=High 2=Moderate 1=Slight 0=Insignificant

REVISED SECTIONS OR REASON FOR REVISION:

ORIGIN DATE: JANUARY 6, 2021

DISCLAIMER: The information provided herein was believed to be accurate, to the best knowledge of Aventure Ready Brands, at the time of preparation from a compilation of sources believed to be reliable and is furnished without warranty, expressed or implied. It is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling, storage and use of this product and to determine the suitability of the product for its intended use. This data sheet relates only to the specific product listed and does not relate to use in combination or in any process with other materials

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