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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, 2001/58 & 1272/2008/EC Standards

MSDS Revision: 3.0

1.	PRODUCT IDEN	ITIFICATION	CHEMICAL RESPONSE CARD:				
1.1	Product Name:	SOLTRON [®] ENZYME FUEL TREATMENT	RESPONSE 🙈 🔊		N.		
1.2	Chemical Name:	Petroleum Distillates	TEAM PPE:		/		
1.3	Synonyms:	SP016, SP001, SP005, SP055					
1.4	Trade Names:	Soltron Enzyme Fuel Treatment	WHMIS:				
1.5	Product Use:	Fuel additive	HEALTH:		1		
1.6	Manufacturer's Name:	Solpower Corporation	FLAMMABIL	ITY:	2		
1.7	Manufacturer's Address:	307 E . 22ND Street, San Pedro, CA 90731 USA	REACTIVITY:		0		
1.8	Business Phone:	+1 (310) 548-4456 / Technical Support +1 (818) 865-9176		PROTECTION:	B		
1.9	Emergency Phone:	INFOTRAC +1 (800) 535-5053					
1.10	Other Product Names:	Xbee® Enzyme Fuel Treatment					
		2. HAZARD IDENTIFICATION					
2.1	Hazard Identification:						
		ssified as a HAZARDOUS SUBSTANCE but not as DANGEROUS a of NOHSC: 1088 (2004) and ADG Code (Australia). Combustible		ding to the			
	WARNING! COMBUS		iiquiu.				
		(H): H227 – Combustible liquid.					
		<u>ments</u> (P): P210 - Keep away from flames and hot surfaces – ye protection/face protection. P370+P378 – In case of fire, use of					
		to extinguish fire. P403+P235 – Store in a well-ventilated place. K					
	contents/container	to an authorized treatment, storage, or disposal facility (TSDF).					
2.2	Routes of Entry:	Inhalation: YES Absorption:	YES	Ingestion:	YES		
2.3	Effects of Exposure: <u>EYES</u> : May cause irritation, redness and tearing. Vapors may be irritating to the eyes.						
	<u>SKIN</u> : May cause irritation, defatting, drying and cracking of skin. Prolonged and repeated contact may lead to dermatitis.						
		use a burning sensation of the mouth and throat, abdominal pain cause kidney damage, cardiac arrhythmia and Central Nervo					
		gs may cause chemical pneumonitis, which can be fatal. Can be					
		ors may be irritating to nose, throat and respiratory tract. Exce					
	possible unconsciou	arrhythmia and Central Nervous System effects including dizzine usness.	ss, weakness, ra	aligue, nausea, neada	cne and		
2.4	Symptoms of Exposure:						
		ess, swelling and tearing. tting, drying and cracking of skin.					
		sensation of the mouth and throat, abdominal pain, gastrointestin	al irritation, naus	sea, vomiting and diarrl	nea.		
	INHALATION: Irritation	on to nose, throat and respiratory tract, dizziness, coughing, whee		-			
2.5	Acute Health Effects:	isness.					
2.5		itation, redness and tearing. Vapors may be irritating to the eyes.	Risk of conjunc	tivitis			
		itation, defatting, drying and cracking of skin. Prolonged and rep					
	INGESTION: May cause a burning sensation of the mouth and throat, abdominal pain, gastrointestinal irritation, nausea, vomiting and						
	diarrhea. May also cause kidney damage, cardiac arrhythmia and Central Nervous System effects (see inhalation). Aspiration of material into the lungs may cause chemical pneumonitis, which can be fatal.						
	INHALATION: Vapors may be irritating to nose, throat and respiratory tract. Excessive inhalation of vapors may cause kidney						
	damage, cardiac arrhythmia and Central Nervous System effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.						
2.6	Chronic Health Effects:						
27	Prolonged or repeated skin contact may lead to dermatitis.						
2.7	Target Organs: None reported by the manufacturer.						
NA :	NA = Not Available; ND = Not Determined; NE = Not Established; C = Ceiling Limit; See Section 16 for Additional Definitions of Terms Used						
NOT	E: all WHMIS required	information is included. It is located in appropriate sections base	d on the ANSI Z4	100.1-2010 format.			



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		3	B. COMPO	OSITION &		REDIE	INTS							
								EXPOS	SURE LI	MITS IN	I AIR (r	ng/m³)	
						AC	GIH		NOHSO)		OSHA		
						pp	om		ppm			ppm	1	OTHER
	CHEMICAL NAME(S)	CAS No.	RTECS No.	EINECS No.	%	TLV	STEL	ES- TWA	ES- Stel	ES- PEAK	PEL	STEL	IDLH	
	ATIC PETROLEUM		-											
DISTIL		64742-47-8	OA5504000	265-149-8	60-100	NE	NE	NF	NF	NF	500	NE	NE	
	RIETARY ORGANIC POUNDS	NA	NA	NA	0.1-1.0	NE	NE	NF	NF	NF	NE	NE	NE	
			4. FI	rst aid M	EASU	RES								
4.1	First Aid:						61			I'ala				
	EYES: Immediately flush ey persists, repeat flushing. G			ater for at leas	st 15 min	utes, ii	ning u	oper a		er ilds,	occa	sionali	у. н ш	lation
	<u>SKIN</u> : Wash thoroughly wit			on persists, se	ek medi	cal att	ention	. Rem	ove c	ontami	nated	clothir	ng and	wash
	before reuse.												5	
	INGESTION: Do not induce										0			
	give an unconscious perso breathing in the vomitus (v													
	into the lungs. Aspiration													
	immediate medical attenti		inte tange at		<i>,</i> , .		00	oa. p.					, latan	
	INHALATION: Remove affe				icult, ad	ministe	er oxyg	gen. If	breath	ning sto	ops giv	e artifi	cial	
	respiration. Keep person warm, quiet and get medical attention.													
4.2														
	None reported by the manufacturer.													
			5 FIRE	FIGHTING	MFA	SURF	s							
5.1	Flashpoint & Method:		0. 111(2)		10127 (<u> </u>							
	65.5 – 73.8 °C (150.0 – 165.0) °F). TCC												
5.2	Autoignition Temperature:	.,,												
	215.5 °C (420 °F)													
5.3	Flammability Limits:		Lower Explo	sive Limit (LEL)	:	0.9		Upper	Explo	sive Lin	nit (UEL):	6.	0
5.4	Fire & Explosion Hazards:					1								
	This material can burn but	will not readil	y ignite. This n	naterial will re	lease va	apors v	vhen h	eated	above	e the fla	ash			
	point temperature that car													
	ignite with explosive force. Mists or sprays may burn at temperatures below the flash point. Carbon dioxide,													
	carbon monoxide, smoke, fumes, unburned hydrocarbons and trace oxides of sulfur and nitrogen. Also, depending upon the conditions of use, low concentrations of hydrogen sulfide can be released.													
5.5	Extinguishing Methods:													
	Dry chemical, foam, carbon dioxide, and water fog.													
5.6														
	Keep containers cool until			1 2									\smallsetminus	
	personal. Avoid spraying												~	
	from fire control or dilution Firefighters must use full be		•											
	apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.													



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6.1 Spills:

6. ACCIDENTAL RELEASE MEASURES

Small Spills: Absorb onto vermiculite, floor sweep or other absorbent material. Place into containers for disposal.

Large Spills: Eliminate all ignition sources (e.g., flares, flames, pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from the spill area until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated soil, absorbent and other materials to containers for disposal. Per good environmental practices, prevent run-off to sewers, streams and other bodies of water. Stop the spill at its source. Cover sewer grates and dike the spill. Absorb spilled material onto absorbents. Shovel absorbed material into containers for disposal. Close container tightly and dispose of properly.

7. HANDLING & STORAGE INFORMATION

7.1	Work & Hygiene Practices:						
	Wear gloves, glasses and self-contained mask. Warn about risk of vapor inhalation. Wash hands with water and soap immediately after handling then rinse in case of contact. When using, do not eat, drink or smoke.						
7.2	7.2 Storage & Handling:						
	Use and keep away from flame, heat sources and functioning electrical devices. Use in a well ventilated area. Store in original packaging. Keep out of reach of children. Do not store in temperatures above 50°C. Keep out of direct sunlight.						
7.3	Special Precautions:						
	Do not spray on a naked fla Avoid any contact.	Do not spray on a naked flame or any incandescent material. When using do not smoke. Avoid breathing vapors or spray mists. Avoid any contact.					
	Q	EXPOSURE CONTROLS & PERSONAL PROTECTION					
0.1		EXPOSURE CONTROLS & PERSONAL PROTECTION					
8.1	Ventilation & Engineering Controls:	generated by this product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans. Do not					
		ndling this product. Ensure that safety shower, hand washing sink and eye bath are near work area.					
8.2	Respiratory Protection:						
	Use respiratory protection (e.g., organic vapor-acid gas cartridge respirator). Use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member states, or Australia.						
8.3	Eye Protection:						
	Safety goggles.						
8.4	Hand Protection:						
	Solvent resistant or other impervious gloves. Wear boots, clothing with long sleeves, etc. as appropriate.						
8.5	Body Protection:						
	Wear protective clothing (e.c	, apron)					
		9. PHYSICAL & CHEMICAL PROPERTIES					
9.1	Density:	0.804 - 0.815 g/cm ³ @ 15°C					
9.2	Boiling Point:	300 °F					
9.3	Melting Point:	ND					
9.4	Evaporation Rate:	< 0.10 (n-butyl acetate = 1.0)					
9.5	Vapor Pressure:	0.10 mm Hg @ 20 °C					
9.6	Molecular Weight:	NA					
9.7	Appearance & Color:	Colorless transparent liquid. Mild paraffin odor.					
9.8	Odor Threshold:	NA					
9.9	Solubility:	Negligible.					
9.10	рН	ND					
9.11	Viscosity:	1.8 cSt @ 40 °C					
9.12	Other Information:	Vapor Density > 5.0 (air = 1.0); 804.0 g/L					



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		10. STABILITY & REA	ACTIVITY				
0.1	Stability:	This product is chemically stable under	normal conditions of stora	ge and use.			
0.2	Hazardous Decomposition Products: Fumes, smoke, carbon monoxide, and trace hydrocarbons.						
0.3							
0.4	Conditions to Avoid:	Do not exposure this product to temper	atures above 140°C.				
0.5	Incompatible Substances:	Strong oxidizing agents.					
		11. TOXICOLOGICAL IN	IFORMATION				
1.1	Toxicity Data:						
	None reported by the manufa	cturer.					
1.2	Acute Toxicity:	-					
11.3	None reported by the manufa Chronic Toxicity:	clurer.					
1.5	None reported by the manufa	cturer.					
1.4	Suspected Carcinogen:						
	No						
1.5	Reproductive Toxicity:						
	Mutagenicity:	This product is not reported to cause m	utagenic effects in humans	S			
	Embryotoxicity:	This product is not reported to cause er	nbryotoxic effects in huma	ns.			
	Teratogenicity:	This product is not reported to cause te	atogenic effects in human	S			
	Reproductive Toxicity:	This product is not reported to cause reproductive harm in humans.					
1.6	Irritancy of Product:	See section 3.3					
11.7	Biological Exposure Indices:	NA					
1.8	Physician Recommendations:	Treat symptomatically.					
		12. ECOLOGICAL INF	ORMATION				
12.1	Environmental Stability:						
		has not been conducted on this product.					
		iman, animal, and aquatic life. Also, the tal to aquatic life and waterfowl.	cualing action associat	ed with petroleum and petroleu			
2.2	Effect on Plants & Animals:						
		sis has not been conducted on this spec	ific product. However, pl	ants and animals may experienc			
		coated with petroleum-based products.					
2.3	Effect on Aquatic Life:						
	Petroleum-based (mineral) lube oils will normally float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not						
		the waterway can result in a loss of marin	1 33 1				
	······						
		13. DISPOSAL CONSI	DERATIONS				
13.1	Waste Disposal:						
		accordance with local and national regul	ations.				
13.2	Special Considerations:	•					
	U.S. EPA Characteristic Waste	(Flammable) - D001					



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	14. TRANSPORTATION INFORMATION				
The Add	pasic description (proper shipping name, hazard class & division, ID Number, packing group) is shown for each r Itional descriptive information may be required by 49 CFR, IATA/ICAO, IMDG and the CTDGR.	node of transportation.			
14.1	49 CFR (GND): NOT REGULATED [49 CFR 173.150 (f)(2)] NOT REGULATED IN NON-BULK PACKAGINGS HAVING VOLUMETRIC CAPACITY ≤ 450 L (119 U.S. GLS)				
14.2	IATA (AIR): NOT REGULATED NOT REGULATED IN NON-BULK PACKAGINGS HAVING VOLUMETRIC CAPACITY ≤ 450 L (119 U.S. GLS)				
14.3	IMDG (OCN): NOT REGULATED NOT REGULATED IN NON-BULK PACKAGINGS HAVING VOLUMETRIC CAPACITY ≤ 450 L (119 U.S. GLS)				
14.4	TDGR (Canadian GND): NOT REGULATED				
14.5	ADR/RID (EU): NOT REGULATED				
14.6	MEXICO (SCT): NOT REGULATED				
14.7	ADGR (AUS): NOT REGULATED				
	15. REGULATORY INFORMATION				
15.1	SARA Reporting Requirements: This product does not contain any substances subject to SARA reporting requirements.				
15.2	SARA Threshold Planning Quantity: NA				
15.3	TSCA Inventory Status: The components of this product are listed on the TSCA inventory.				
15.4	CERCLA Reportable Quantity (RQ): NA				
15.5	Other Federal Requirements: NA				
15.6	Other Canadian Regulations All chemical substances of this product are listed on the CEPA DSL/NDSL or are exempt from list requirements. This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.				
15.7	State Regulatory Information:				
15.8	 67/548/EEC (European Union) Requirements: 67/548/EEC (European Union) Requirements: The primary components of this product is not listed in Annex I of EU Directive 67/548/EEC. Flammable (F). <u>Risk Phrases</u> (R): 10 - Flammable. <u>Safety Phrases</u> (S): 9-16-33 - Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. <u>Aliphatic petroleum distillates</u>: (Xn) Harmful. <u>Risk Phrases</u> (R): 65 Harmful. May cause lung damage if swallowed. WARNING! COMBUSTIBLE LIQUID. <u>Hazard Statements</u> (H): H227 - Combustible liquid. <u>Precautionary Statements</u> (P): P210 - Keep away from flames and hot surfaces - No Smoking. P280 - Wear protective gloves/eye protection/face protection. P370+P378 - In case of fire, use dry chemical, foam, carbon dioxide or water fog to extinguish fire. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to an authorized treatment, storage, or disposal facility (TSDF). 	*			



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	16. OTHER INFORMATION					
16.1	16.1 Other Information:					
	NA					
16.2	Terms & Definitions:					
	Please see last page of this MSDS.					
16.3	Disclaimer:					
	This Material Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Solpower Corporation's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.					
16.4	Prepared for:					
	Solpower Corporation					
	307 E. 22 nd Street	(e)				
	San Pedro, CA 90731 USA					
	Tel: +1 (310) 548-4456 Technical Support: +1 (818) 865-9176					
	www.solpower.com					
16.5	Prepared by:					
	ShipMate, Inc.					
	P.O. Box 787					
	Sisters, OR. 97759 USA	* Shin Mato				
	Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700	Shipiyiale				
	E-mail: shipmate@shipmate.com	Dangerous Goods Training & Consulting				
	http://www.shipmate.com/					



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a MSDS. Some of these that are commonly used include the following: **GENERAL INFORMATION: HAZARD RATINGS:**

CAS No. Chemical Abstract Service Number

EXPOSURE LIMITS IN AIR:

ACGIH	CGIH American Conference on Governmental Industrial Hygienists		
TLV Threshold Limit Value			
OSHA U.S. Occupational Safety and Health Administration			
PEL Permissible Exposure Limit			
IDLH	Immediately Dangerous to Life and Health		

FIRST AID MEASURES:

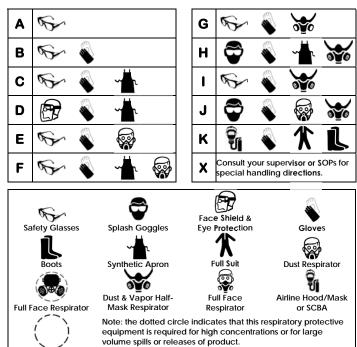
CPR	Cardiopulmonary resuscitation - method in which a person whose			
	heart has stopped receives manual chest compressions and breathing			
	to circulate blood and provide oxygen to the body.			

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	HEALTH
1	Slight Hazard	FLAMMABILITY
2	Moderate Hazard	PHYSICAL HAZARDS
3	Severe Hazard	PERSONAL PROTECTION
4	Extreme Hazard	

PERSONAL PROTECTION RATINGS:



OTHER STANDARD ABBREVIATIONS:

NA	Not Available
NR	No Results
NE	Not Established
ND Not Determined	
ML Maximum Limit	
SCBA	Self-Contained Breathing Apparatus

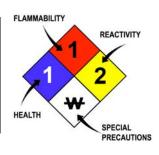
NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILIT	FLAMMABILITY LIMITS IN AIR:					
Autoignition	tion Minimum temperature required to initiate combustion in air with no					
Temperature	other source of ignition					
LEL	LEL Lower Explosive Limit - lowest percent of vapor in air, by volume, that					
	will explode or ignite in the presence of an ignition source					
UEL Upper Explosive Limit - highest percent of vapor in air, by volume,						
	that will explode or ignite in the presence of an ignition source					

HAZARD RATINGS:				
0	Minimal Hazard			
1	Slight Hazard			
2	Moderate Hazard			
3	Severe Hazard			
4	Extreme Hazard			
ACD	Acidic			

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ALK Alkaline COR Corrosive W Use No Water OX Oxidizer TREFOIL Radioactive



TOXICOLOGICAL INFORMATION:

LD ₅₀	Lethal Dose (solids & liquids) which kills 50% of the exposed animals s				
LC ₅₀	Lethal concentration (gases) which kills 50% of the exposed animal				
ppm	Concentration expressed in parts of material per million parts				
TD _{Io}	Lowest dose to cause a symptom				
TCLo	Lowest concentration to cause a symptom				
TD _{Io} , LD _{Io} , & LD _o or TC, TC _o , LC _{Io} , & LC _o					
	International Agency for Research on Cancer				
NTP	National Toxicology Program				
RTECS	Registry of Toxic Effects of Chemical Substances				
BCF	Bioconcentration Factor				
TLm	Median threshold limit				
log Kow or log Koc	Coefficient of Oil/Water Distribution				

REGULATORY INFORMATION:

WHMIS	Canadian Workplace Hazardous Material Information System
DOT	U.S. Department of Transportation
TC	Transport Canada
EPA	U.S. Environmental Protection Agency
DSL	Canadian Domestic Substance List
NDSL	Canadian Non-Domestic Substance List
PSL	Canadian Priority Substances List
TSCA	U.S. Toxic Substance Control Act
EU	European Union (European Union Directive 67/548/EEC)
WGK	Wassergefährdungsklassen (German Water Hazard Class)

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

\oslash	۲			(Ţ)	•		R
Α	В	С	D1	D2	D3	E	F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

EC (67/548/EEC) INFORMATION:

TI-		N	¥	0) (×	×
С	E	F	Ν	0	T+	Xi	Xn
Corrosive	Explosive	Flammable	Harmful	Oxidizing	Toxic	Irritant	Harmful

CLP/GHS (1272/2008/EC) PICTOGRAMS:

		٨	\Diamond					H
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment