

SAFETY DATA SHEET

1. Identification

Product identifier	SDAG-2, 95%
Other means of identification	
Synonyms	Denatured Ethanol, Ethyl alcohol denatured with methanol
Recommended use	General purpose solvent.
Recommended restrictions	Refer to the alcohol control authority in which the product is to be used - Canada Revenue Agency (Excise) in Canada, US Tax and Trade Bureau in the US, etc.
Manufacturer/Importer/Supplier	/Distributor information
Company name	Greenfield Global Inc.
Address	6985 Financial Drive
	Missisauga, Ontario L5N 0G3

	Missisauga, Ontario LSN 00.
	Canada
Telephone	(905) 790-7500
Website	http://www.greenfield.com
Emergency phone number	CHEMTREC: 1-800-424-9300

2. Hazard identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Acute toxicity, oral	Category 4
	Serious eye damage/eye irritation	Category 2
	Specific target organ toxicity following single exposure	Category 1 (central nervous system, optic nerve)

Label elements



Signal word	Danger
Hazard statement	Highly flammable liquid and vapour. Harmful if swallowed. Causes serious eye irritation. Causes damage to organs (central nervous system, optic nerve).
Precautionary statement	
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe mist/vapours. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
Response	IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Call a POISON CENTRE/doctor. If eye irritation persists: Get medical advice/attention. In case of fire: Use water fog, alcohol-resistant foam, dry chemical powder, carbon dioxide to extinguish.
Storage	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%	
Ethanol		64-17-5	84.32	
Methanol		67-56-1	8.91	
Composition comments	All concentrations are in percent by weight un percent by volume. Components not listed are either non-hazardo			
4. First-aid measures				
Inhalation	Move to fresh air. Call a physician if symptom	s develop or persist.		
Skin contact	Take off immediately all contaminated clothing attention if irritation develops and persists.	g. Rinse skin with water/showe	r. Get medical	
Eye contact	Immediately flush eyes with plenty of water fo present and easy to do. Continue rinsing. Get			
Ingestion	Call a physician or poison control centre imme advice from poison control center. If vomiting doesn't get into the lungs. Do not use mouth-t Induce artificial respiration with the aid of a po proper respiratory medical device.	occurs, keep head low so that o-mouth method if victim inges	stomach content sted the substance.	
Most important symptoms/effects, acute and	Narcosis. Headache. Behavioural changes. D Symptoms may include stinging, tearing, redn			
delayed	Methanol: Human exposure to methanol may result in illness, systemic poisoning, blindness, optic nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some cases from consumption of as little as 30 mls.			
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and trea immediately. While flushing, remove clothes w ambulance. Continue flushing during transpor observation. Symptoms may be delayed.	which do not adhere to affected	l area. Call an	
General information	Take off all contaminated clothing immediately label where possible). Ensure that medical pe take precautions to protect themselves. Show Wash contaminated clothing before reuse.	rsonnel are aware of the mate	rial(s) involved, and	
5. Fire-fighting measures				
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemic	al powder. Carbon dioxide (Co	D2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as thi	s will spread the fire.		
Specific hazards arising from the chemical	Vapours may form explosive mixtures with air source of ignition and flash back. During fire, g			
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full pr	otective clothing must be worr	in case of fire.	
Fire fighting equipment/instructions	In case of fire and/or explosion do not breather so without risk.	e fumes. Move containers from	fire area if you can do	
Specific methods	Use standard firefighting procedures and cons	sider the hazards of other invo	lved materials.	
General fire hazards	Highly flammable liquid and vapour.			
6. Accidental release meas	sures			

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapours. Do not taste or swallow. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values Components Type		Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Methanol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3	
		1000 ppm	
Methanol (CAS 67-56-1)	STEL	328 mg/m3	
		250 ppm	
	TWA	262 mg/m3	
		200 ppm	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Methanol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Methanol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	

	Ту	ре	Va	lue	
Ethanol (CAS 64-17-5)	ST	EL	10	00 ppm	
Methanol (CAS 67-56-1)	ST	EL	25) ppm	
	тν	VA	20) ppm	
Canada. Quebec OELs. (Mir Components	-	egulation respectin pe		ealth and safety) lue	
Ethanol (CAS 64-17-5)	ΤV	VA	18	30 mg/m3	
			10	00 ppm	
Methanol (CAS 67-56-1)	ST	EL	32	3 mg/m3	
			25) ppm	
	тν	VA	26	2 mg/m3	
) ppm	
Canada. Saskatchewan OEI Components		Health and Safety R	egulations, 1996		
Ethanol (CAS 64-17-5)	15	minute	12	50 ppm	
	81	nour	10	00 ppm	
Methanol (CAS 67-56-1)	15	minute	25) ppm	
	81	nour) ppm	
Mathemal (CAR G7 EG 1) 1	5 ma/l				
Components V	/alue	Determinant	Specimen	Sampling Time	
			I Indiana	ب	
· · · · ·	15 mg/l	Methanol	Urine	*	
* - For sampling details, pleas	•		Urine	*	
* - For sampling details, pleas	se see the source d		Urine	*	
* - For sampling details, pleas	se see the source d	ocument. Can b	Urine e absorbed throu	* gh the skin.	
* - For sampling details, pleas posure guidelines Canada - Alberta OELs: Ski Methanol (CAS 67-56-1)	se see the source d n designation OELs: Skin design	ocument. Can b ation	_	-	
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Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Chemical respirator v organic vapour cartridge and full facepiece. Use a positive-pressure air-supplied respirator if th is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Colour	Colourless.
Odour	Alcoholic.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	-115 °C (-175 °F) (Approximate)
Initial boiling point and boiling range	76.8 - 78.1 °C (170.24 - 172.58 °F)
Flash point	16.0 °C (60.8 °F) Tag closed cup (ASTM D 92)
Evaporation rate	1.7 (Butyl Acetate = 1)
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	44 mm Hg (Ethanol) (20 °C (68 °F))
Vapour density	1.56 (Air = 1)
Relative density temperature	20 °C (68 °F)
Solubility(ies)	
Solubility (water)	Complete
Partition coefficient (n-octanol/water)	0.032 (Approximate)
Auto-ignition temperature	370 °C (698 °F) (Approximate)
Decomposition temperature	Not available.
Viscosity	1.35 cP (Approximate)
Viscosity temperature	20 °C (68 °F)
Other information	
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
Percent volatile	100 % v/v
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidising agents.

11. Toxicological information

Information on likely routes of exposure	
Inhalation	May cause damage to organs

Inhalation	May cause damage to organs by inhalation. Prolonged inhalation may be harmful.
Skin contact	Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Narcosis. Headache. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Methanol: Human exposure to methanol may result in illness, systemic poisoning, blindness, optic nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some cases from consumption of as little as 30 mls.

Information on toxicological effects

Acute toxicity	Harmful if swallowed.		
Components	Species	Test Results	
Ethanol (CAS 64-17-5)			
Acute			
Inhalation			
Vapour			
LC50	Rat	117 - 125 mg/l, 4 Hours	
Oral			
LD50	Rat	10470 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitisatio	n		
Respiratory sensitisation	Not a respiratory sensitiser.	Not a respiratory sensitiser.	
Skin sensitisation	This product is not expected to cause skin sensitisation.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity			
Canada - Manitoba OELs: c	arcinogenicity		
Ethanol (CAS 64-17-5)	Cor	firmed animal carcinogen with unknown relevance to humans	
Reproductive toxicity	Possible reproductive hazard.		
Specific target organ toxicity - single exposure	Causes damage to organs (central	nervous system, optic nerve).	
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmf	ul.	
12. Ecological information	ı		
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.		
Components	Species	Test Results	
Ethanol (CAS 64-17-5)			
Aquatic			
Acute			

Freshwater algae

Freshwater algae

EC10

EC50

Algae

11.5 mg/l, 72 hours

275 mg/l, 72 hours

Components		Species	Test Results
		Marine water algae	1900 mg/l
Fish	LC50	Freshwater fish	11200 mg/l, 24 hours
Invertebrate	EC50	Freshwater invertebrate	5012 mg/l, 48 hours
		Marine water invertebrate	857 mg/l, 48 hours
Other	EC50	Lemna minor	4432 mg/l, 7 days
Chronic			
Algae	NOEC	Marine water algae	1580 mg/l
Fish	NOEC	Freshwater fish	250 mg/l
Invertebrate	NOEC	Freshwater invertebrate	9.6 mg/l, 10 days
		Marine water invertebrate	79 mg/l, 96 hours
Other	NOEC	Lemna minor	280 mg/l, 7 days
Other			
Acute			
Micro-organisms	LC50	Micro-organisms	5800 mg/l, 4 hours
Terrestrial			
Acute			
Plant	EC50	Terrestrial plant	633 mg/kg dw
Methanol (CAS 67-56-1)			
Aquatic			
<i>Acute</i> Crustacea	EC50	Daphnia magna	> 10000 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	15400 mg/l, 96 hours
			13400 mg/l, 30 nours
sistence and degradability	Expected t	o be readily biodegradable.	
accumulative potential	n al / watan /l		
Partition coefficient n-octa SDAG-2, 95%	nol / water (lo	0.032, Approximate.	
Methanol (CAS 67-56-1)		-0.77	
bility in soil	Expected t	o be highly mobile in soil.	
er adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.		
Disposal consideration	ons		
posal instructions		d reclaim or dispose in sealed containers a ontainer in accordance with local/regional/	at licensed waste disposal site. Dispose of //national/international regulations.
al disposal regulations	Dispose in	Dispose in accordance with all applicable regulations.	
ardous waste code		The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
ste from residues / unused ducts	product res	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
ntaminated packaging	Since emp	tied containers may retain product residue	e, follow label warnings even after container i

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or **Contaminated packaging** disposal.

14. Transport information

TDG	
UN number	UN1986
UN proper shipping name	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (Ethanol, Methanol)
Transport hazard class(es)	
Class	3
Subsidiary risk	6.1
Packing group	Ш
Environmental hazards	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

SDAG-2, 95%

IATA

UN number	UN1986
UN proper shipping name	Alcohols, flammable, toxic, n.o.s. (Ethanol, Methanol)
Transport hazard class(es)	
Class	3
Subsidiary risk	6.1
Packing group	П
Environmental hazards	No.
ERG Code	3HP
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN1986
UN proper shipping name	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (Ethanol, Methanol)
Transport hazard class(es)	
Class	3
Subsidiary risk	6.1
Packing group	П
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	This substance/mixture is not intended to be transported in bulk.
Annex II of MARPOL 73/78 and	
the IBC Code	

15. Regulatory information

Canadian regulations	This product has been classified in accordance with the hazard criteria of contains all the information required by the HPR.	f the HPR and the SDS
Controlled Drugs and Subs	tances Act	
Not regulated.		
Export Control List (CEPA	1999, Schedule 3)	
Not listed.		
Greenhouse Gases		
Not listed.		
Ontario. Toxic Substances.	Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)	
Methanol (CAS 67-56-1)		
Precursor Control Regulation	ons	
Not regulated.		
International regulations		
Stockholm Convention		
Not applicable.		
Rotterdam Convention		
Not applicable.		
Kyoto Protocol		
Not applicable.		
Montreal Protocol		
Not applicable.		
Basel Convention		
Not applicable.		
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date	15-April-2021
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