## SAFETY DATA SHEET



1. Identification

Product identifier SDAG-9, 95%

Other means of identification

Synonyms Specially denatured alcohol \* Denatured Ethanol \* Ethyl alcohol denatured with isopropanol \*

SDA-3C (US equivalent, 190 proof)

**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 nameGreenfield Global Inc.Address6985 Financial Drive

Missisauga, Ontario L5N 0G3

Canada

**Telephone** (905) 790-7500

Website http://www.greenfield.com
Emergency phone number CHEMTREC: 1-800-424-9300

2. Hazard identification

Physical hazardsFlammable liquidsCategory 2

**Health hazards** Serious eye damage/eye irritation Category 2

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapour. Causes serious eye irritation.

**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. Wash thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection.

Response 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 eye irritation persists: Get medical advice/attention. In case of fire: Use water fog, alcohol-resistant foam, dry chemical powder, carbon dioxide to extinguish.

ose water rog, alcohol-resistant roam, dry chemical powder, carbon dioxid

**Storage** Store in a well-ventilated place. Keep cool.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information None.

Other hazards None known.

## 3. Composition/information on ingredients

**Mixtures** 

Chemical name	Common name and synonyms	CAS number	%
Ethanol		64-17-5	88.1

**Chemical name** % CAS number 67-63-0 4.6 Propan-2-ol Other components below reportable levels 7.3

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical

attention if irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eve contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delaved

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.

Highly flammable liquid and vapour.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area, Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**General information** Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing

before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Combustion products may include: Carbon oxides.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

#### 6. Accidental release measures

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 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.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

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. When using do not smoke. 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. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

# Conditions for safe storage, including any incompatibilities

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

110	A C C II I	Thunalis	141	!!4	Values
US.	ACGIR	Thresho	Ia L	_imit	values

Components	Туре	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Propan-2-ol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
Canada. Alberta OELs (Occupation Components	nal Health & Safety Code, Sch Type	nedule 1, Table 2) Value
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3
		1000 ppm
Propan-2-ol (CAS 67-63-0)	STEL	984 mg/m3
		400 ppm
	TWA	492 mg/m3
		200 ppm
Canada. British Columbia OELs. (C Safety Regulation 296/97, as ameno		s for Chemical Substances, Occupational Health and
Components	Туре	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Ethanol (CAS 64-17-5)		
Propan-2-ol (CAS 67-63-0)	STEL	400 ppm
	STEL TWA	400 ppm 200 ppm
	TWA	200 ppm
Propan-2-ol (CAS 67-63-0)	TWA	200 ppm
Propan-2-ol (CAS 67-63-0)  Canada. Manitoba OELs (Reg. 217/	TWA 2006, The Workplace Safety	200 ppm  And Health Act)
Propan-2-ol (CAS 67-63-0)  Canada. Manitoba OELs (Reg. 217/	TWA 2006, The Workplace Safety of Type	200 ppm And Health Act) Value
Propan-2-ol (CAS 67-63-0)  Canada. Manitoba OELs (Reg. 217/Components  Ethanol (CAS 64-17-5)	TWA  2006, The Workplace Safety A  Type  STEL	200 ppm  And Health Act)  Value  1000 ppm
Propan-2-ol (CAS 67-63-0)  Canada. Manitoba OELs (Reg. 217/Components  Ethanol (CAS 64-17-5)	TWA  2006, The Workplace Safety A Type  STEL STEL TWA	200 ppm  And Health Act) Value  1000 ppm 400 ppm 200 ppm
Propan-2-ol (CAS 67-63-0)  Canada. Manitoba OELs (Reg. 217/2 Components  Ethanol (CAS 64-17-5)  Propan-2-ol (CAS 67-63-0)  Canada. Ontario OELs. (Control of	TWA  2006, The Workplace Safety A Type  STEL STEL TWA	200 ppm  And Health Act) Value  1000 ppm 400 ppm 200 ppm
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Propan-2-ol (CAS 67-63-0)  Canada. Manitoba OELs (Reg. 217/Components  Ethanol (CAS 64-17-5)  Propan-2-ol (CAS 67-63-0)  Canada. Ontario OELs. (Control of Components  Ethanol (CAS 64-17-5)  Propan-2-ol (CAS 67-63-0)  Canada. Quebec OELs. (Ministry of Components	TWA  2006, The Workplace Safety Type  STEL  STEL  TWA  Exposure to Biological or Cr  Type  STEL  STEL  STEL  TWA  f Labor - Regulation respecting Type  TWA	200 ppm  And Health Act) Value  1000 ppm 400 ppm 200 ppm  nemical Agents) Value  1000 ppm 400 ppm 200 ppm 200 ppm 400 ppm 200 ppm 1000 ppm 1000 ppm 1000 ppm 1000 ppm

400 ppm

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Components	Type	Value	
Ethanol (CAS 64-17-5)	15 minute	1250 ppm	
	8 hour	1000 ppm	
Propan-2-ol (CAS 67-63-0)	15 minute	400 ppm	
	8 hour	200 ppm	

## **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components	Value	Determinant	Specimen	Sampling Time
Propan-2-ol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

<sup>\* -</sup> For sampling details, please see the source document.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Chemical goggles are recommended.

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Other Wear appropriate chemical resistant clothing.

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.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. 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 Clear liquid; invisible vapour.

Odour Not available.

Odour threshold Not available.

pH Not available.

Melting point/freezing point -100 °C (-148 °F)

Initial boiling point and boiling 80 °C (176 °F)

range

Flash point 16 °C (60.8 °F) Closed cup

Evaporation rate 3 (Butyl acetate = 1)
Flammability (solid, gas) Not applicable.

Vapour pressure 5.52 kPa (Ethanol) (20 °C (68 °F))

Vapour density 1.6 (air = 1)

Relative density Not available.

Solubility(ies)

Solubility (water) Complete

Partition coefficient (n-octanol/water)

Not available.

**Auto-ignition temperature** 

363 °C (685.4 °F) (Ethanol)

Decomposition temperature

Not available.

Other information

**Viscosity** 

Density6.608 - 6.86 lb/galExplosive propertiesNot explosive.Oxidising propertiesNot oxidising.

## 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

**Hazardous decomposition** 

products

irritation

No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact**No adverse effects due to skin contact are expected.

Strong oxidising agents.

**Eye contact** Causes serious eye irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and

blurred vision. Coughing.

## Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Acute toxicity	Not expected to be acutely toxic.		
Components	Species	Test Results	
Ethanol (CAS 64-17-5)			
<u>Acute</u>			
Inhalation			
Vapour			
LC50	Rat	117 - 125 mg/l, 4 Hours	
Oral			
LD50	Rat	10470 mg/kg	
Propan-2-ol (CAS 67-63-0)			
<u>Acute</u>			
Dermal			
LD50	Rabbit	12870 mg/kg	
Inhalation			
Vapour			
LC50	Rat	72.6 mg/l, 4 hours	
Oral			
LD50	Rat	4710 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may cause tempora	ary irritation.	
Serious eye damage/eye	Causes serious eye irritation.		

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation This product is not expected to cause skin sensitisation.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity

**ACGIH Carcinogens** 

Ethanol (CAS 64-17-5) A3 Confirmed animal carcinogen with unknown relevance to

humans.

Propan-2-ol (CAS 67-63-0) A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Ethanol (CAS 64-17-5) Confirmed animal carcinogen with unknown relevance to humans.

This product is not expected to cause reproductive or developmental effects.

Propan-2-ol (CAS 67-63-0) Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Propan-2-ol (CAS 67-63-0) 3 Not classifiable as to carcinogenicity to humans.

Not classified.

Specific target organ toxicity -

single exposure

Reproductive toxicity

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

## 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

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			
Algae	EC10	Freshwater algae	11.5 mg/l, 72 hours
	EC50	Freshwater algae	275 mg/l, 72 hours
		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

Components **Species Test Results** 

Propan-2-ol (CAS 67-63-0)

Aquatic

Acute

LC50 Crustacea Daphnia magna > 10000 mg/l, 24 hours Fish LC50 Pimephales promelas 9640 mg/l, 96 hours

Chronic

Crustacea EC50 Daphnia magna > 100 mg/l, 21 days NOEC

Daphnia magna

141 mg/l, 16 days 30 mg/l, 21 days

Expected to be readily biodegradable. Persistence and degradability

Bioaccumulative potential The product is not expected to bioaccumulate.

Partition coefficient n-octanol / water (log Kow)

Propan-2-ol (CAS 67-63-0) 0.05

Expected to be mobile in soil. Mobility in soil

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of **Disposal instructions** 

contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

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).

Contaminated packaging 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

disposal.

14. Transport information

**TDG** 

**UN number** UN1987

**UN proper shipping name** 

Transport hazard class(es)

ALCOHOLS, N.O.S. (Ethanol; Propan-2-ol)

3 **Class** Subsidiary risk Ш Packing group No. **Environmental hazards** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN1987 **UN number** 

**UN proper shipping name** Alcohols, n.o.s. (Ethanol; Propan-2-ol)

Transport hazard class(es)

Class 3 Subsidiary risk Packing group Ш **Environmental hazards** No. **ERG Code** 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

**UN number** 

**UN proper shipping name** ALCOHOLS, N.O.S. (Ethanol; Propan-2-ol)

Transport hazard class(es)

3 **Class** Subsidiary risk Ш Packing group

**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

Annex II of MARPOL 73/78 and the IBC Code

This product is not intended to be transported in bulk.

## 15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

#### **Controlled Drugs and Substances Act**

Not regulated.

#### Export Control List (CEPA 1999, Schedule 3)

Not listed.

#### **Greenhouse Gases**

Not listed.

#### **Precursor Control Regulations**

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

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
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

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

#### 16. Other information

**Issue date** 31-August-2021 **Revision date** 19-December-2023

Version No. 02

SDAG-9, 95% SDS Canada

Inventory name

On inventory (yes/no)\*

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).

#### **Disclaimer**

This product is subject to Greenfield Global Inc.'s terms and conditions, which can be found at http://www.greenfield.com/tc-po-can/. The information in this SDS is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the material and not as a guarantee of the properties thereof. No warranty guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy itself as to the suitability of such information for its own particular use. This information relates only to the specific product designated and may not be valid for such product used in combination with any other materials or in any process. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations applicable to the use, storage, or handling of the product. THE COMPANY MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, OR USAGE OF TRADE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED. Given the variety of factors that can affect the use and application of the product, which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to independently determine whether it is fit for a particular purpose, suitable, safe, and/or lawful for user's method of use or application.