

## SAFETY DATA SHEET

## 1. Identification

Product identifier	DA 2A Anhydrous
Other means of identification	
Synonyms	2A alcohol, 2A solvent, DAG-2A
Recommended use	General purpose solvent. Printing Inks. Coatings.
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
	Mississauga, Ontario
	L5N 0G3Canada
Telephone	(905)790-7500
Website	http://www.greenfield.com
24-Hour Emergency Contact	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 alcohol resistant foam, carbon dioxide, dry powder or water fog 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	84.47
Methanol		67-56-1	13.75
Other components below r	eportable levels		1.78

Other components below reportable levels

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.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Most important symptoms/effects, acute and delayed	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.
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 warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	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.
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.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Highly flammable liquid and vapour.

#### 6. Accidental release measures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all Personal precautions, ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and protective equipment and clothing during clean-up. Do not breathe mist/vapours. Do not touch emergency procedures 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. This product is miscible in water.
	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	Туре	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	

Components		re to Biological or Ch Type		lue	
Ethanol (CAS 64-17-5)		STEL	10	00 ppm	
Methanol (CAS 67-56-1)		STEL	25	) ppm	
		TWA	20	0 ppm	
Canada. Quebec OELs. (N Components	Ainistry of Labor	- Regulation respectir Type		ealth and safety) lue	
Ethanol (CAS 64-17-5)		TWA	18	80 mg/m3	
			10	00 ppm	
Methanol (CAS 67-56-1)		STEL	32	8 mg/m3	
			25	0 ppm	
		TWA	26	2 mg/m3	
			20	0 ppm	
Canada. Saskatchewan O Components	ELs (Occupation	al Health and Safety F Type	-	, Table 21) lue	
Ethanol (CAS 64-17-5)		15 minute	12	50 ppm	
		8 hour		00 ppm	
Methanol (CAS 67-56-1)		15 minute		) ppm	
		8 hour		) ppm	
Components	Value	Determinant	Specimen	Sampling Time	
•			•		
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*	
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*	
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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. Use a positive-pressure air-supplied respirator if there 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. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Chemical respirator with organic vapour cartridge and full facepiece.
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. Liquid. Form Colourless. Colour Odour Alcoholic. **Odour threshold** Not available. bН Not available. -110 °C (-166 °F) (Approximate) Melting point/freezing point 12.5 °C (54.5 °F) Tag closed cup (ASTM D56) Flash point 1.8 (Butyl acetate = 1) **Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits 3.3 % (Ethanol) Flammability limit - lower (%) Flammability limit - upper 19 % (Ethanol) (%) 5.87 kPa @ 20 °C (Ethanol) Vapour pressure Vapour density 1.53 (Air = 1) Solubility(ies) Complete Solubility (water) 0.032 (Approximate) **Partition coefficient** (n-octanol/water) 422 °C (791.6 °F) (Approximate) Auto-ignition temperature Not available. **Decomposition temperature** Not available. Viscosity Other information 1.35 cP (Approximate) (72 - 77.4 °C (161.6 - 171.32 °F) (Approximate)) 20 °C (68 °F) **Dynamic viscosity Dynamic viscosity** Not explosive. temperature Not oxidising. **Explosive properties** 100 % v/v **Oxidising properties** Percent volatile The product is stable and non-reactive under normal conditions of use, storage and transport. 10. Stability and reactivity Material is stable under normal conditions. Reactivity No dangerous reaction known under conditions of normal use. **Chemical stability** Possibility of hazardous Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
  - reactions Conditions to avoid Incompatible materials

Strong oxidising agents.

## 11. Toxicological information

Information on likely routes of exposure		
Inhalation	May cause damage to organs by inhalation. Prolonged inhalation may be harmful.	
Skin contact	May be absorbed through the skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.	
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 sw	vallowed.	
Components	Species Test Results		Test Results
Ethanol (CAS 64-17-5)			
Acute			
Inhalation			
Vapour	Det		
LC50	Rat		117 - 125 mg/l, 4 Hours
Oral	D-4		
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 sensitisation	on		
Respiratory sensitisation	Not a respira	atory sensitiser.	
Skin sensitisation	This product is not expected to cause skin sensitisation.		ensitisation.
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: d	carcinogenicity	1	
Ethanol (CAS 64-17-5)	Confirmed 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 harmful.		
12. Ecological informatio	n		
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			
Algae	EC10	Freshwater algae	11.5 mg/l, 72 hours

Components		Species	Test Results
	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
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
-		available on the degradability of any ingr	
rsistence and degradability baccumulative potential	NO UALA 15	available on the degradability of any lingh	
Partition coefficient n-octa	nol / water (li	og Kow)	
DA 2A Anhydrous		0.032, (Approximate	)
Methanol (CAS 67-56-1)		-0.77	
bility in soil	No data available.		
her adverse effects	No data available.		
3. Disposal consideratio	ons		
sposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.		
cal disposal regulations	Dispose in accordance with all applicable regulations.		
zardous waste code	The waste disposal co	•	etween the user, the producer and the was
aste from residues / unused oducts	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 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.		
. Transport information	-		
G	-		
UN number	UN1986		
UN proper shipping name Transport hazard class(es)	ALCOHOL	S, FLAMMABLE, TOXIC, N.O.S. (Ethano	l, Methanol)

UN number	UN 1960
UN proper shipping name	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (Ethanol, Methano
Transport hazard class(es)	
Class	3
Subsidiary risk	6.1
Packing group	ll
Environmental hazards	Not available.

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling. **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
<b>Environmental hazards</b>	
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	Not applicable. This substance/mixture is not intended to be transported in bulk.

#### **15. Regulatory information**

This product has been classified in accordance with the hazard criteria of the HPR and the SDS **Canadian regulations** 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. Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011) Methanol (CAS 67-56-1) **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 Inventory name On inventory (yes/no)\* Australia Australian Inventory of Industrial Chemicals (AICIS) Yes Domestic Substances List (DSL) Canada Yes Non-Domestic Substances List (NDSL) Canada No Yes China Inventory of Existing Chemical Substances in China (IECSC)

DA 2A Anhydrous

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	22-February-2021
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