

# SAFETY DATA SHEET

# 1. Identification

Product identifier	SDA 23A 200 Proof
Other means of identification	None.
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
	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	Serious eye damage/eye irritation	Category 2
Label elements		
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	< ()>< !>	
	$\checkmark$ $\checkmark$	
Signal word	Danger	
Hazard statement	Highly flammable liquid and vapour. Causes s	serious eye irritation.
Precautionary statement		
Prevention	Keep container tightly closed. Ground and bo explosion-proof electrical/ventilating/lighting e	pen flames and other ignition sources. No smoking. nd container and receiving equipment. Use quipment. Use non-sparking tools. Take action to fter handling. Wear protective gloves/protective
Response	EYES: Rinse cautiously with water for severa	I contaminated clothing. Rinse skin with water. IF IN I minutes. Remove contact lenses, if present and ersists: Get medical advice/attention. In case of fire: emical powder, carbon dioxide to extinguish.
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	92.59
Acetone		67-64-1	7.41

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

### 4. First-aid measures

4. I list-alu 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	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.
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	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. 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** Highly flammable liquid and vapour.

### 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.

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

US. ACGIH Threshold Limit Valu Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Canada. Alberta OELs (Occupat	ional Health & Safety Code, Sche	dule 1, Table 2)
Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	1800 mg/m3
		750 ppm
	TWA	1200 mg/m3
		500 ppm
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3
		1000 ppm
		for Chemical Substances, Occupational Health and
Safety Regulation 296/97, as am Components	ended) Type	Value
Acetone (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Canada. Manitoba OELs (Reg. 2 <sup>.</sup> Components	17/2006, The Workplace Safety A Type	nd Health Act) Value
Acetone (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Canada. Ontario OELs. (Control	of Exposure to Biological or Che	emical Agents)
Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	500 ppm
	TWA	250 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Canada. Quebec OELs. (Ministry Components	v of Labor - Regulation respecting Type	g occupational health and safety) Value
Acetone (CAS 67-64-1)	STEL	2380 mg/m3
		1000 ppm
	TWA	1190 mg/m3
		500 ppm
	TWA	1880 mg/m3
Ethanol (CAS 64-17-5)		1000 ppm
Ethanol (CAS 64-17-5)		· · · · · · · · · · · · · · · · · · ·
	ccunational Health and Safety P	egulations 1996 Table 21)
	ccupational Health and Safety R Type	egulations, 1996, Table 21) Value
Canada. Saskatchewan OELs (O		-
Canada. Saskatchewan OELs (O Components	Туре	Value

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Canada. Saskatchewan Components	OELs (Occupation	Ls (Occupational Health and Safety Regulations, 1990 Type Va		6, Table 21) Ilue	
		8 hour	10	00 ppm	
Biological limit values					
ACGIH Biological Expos	ure Indices				
Components	Value	Determinant	Specimen	Sampling Time	
Acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	*	
* - For sampling details, p	lease see the sourc	e document.			
ppropriate engineering ontrols	Ventilation rat exhaust ventil exposure limit	of general and local exh tes should be matched to lation, or other engineeri ts. If exposure limits hav vel. Provide eyewash sta	o conditions. If ap ng controls to ma e not been estab	oplicable, use process er aintain airborne levels be lished, maintain airborne	nclosures, local elow recommended
dividual protection measu	res, such as perso	nal protective equipme	ent		
Eye/face protection	Wear safety g	lasses with side shields	(or goggles). Ch	emical goggles are reco	mmended.
Skin protection					
Hand protection		iate chemical resistant g nge is advisable.	loves. Be aware	that the liquid may pene	etrate the gloves.
Other	Wear appropr	Wear appropriate chemical resistant clothing.			
Respiratory protection	limits (where	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 appropr	iate thermal protective c	lothing, when ne	cessary.	
eneral hygiene onsiderations	after handling	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	Sweet, Alcoholic.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	-144100 °C (-227.2148 °F)
Initial boiling point and boiling range	78.4 - 80 °C (173.12 - 176 °F)
Flash point	7 - 16 °C (44.6 - 60.8 °F) Closed cup
Evaporation rate	Expected to be rapid.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower ( %)	3.3 % v/v (for Ethanol)
Explosive limit – upper (%)	19 % v/v (for Ethanol)
Vapour pressure	59.5 hPa (20 °C (68 °F))
Vapour density	1.59 - 1.6 (Air = 1)
Relative density	0.785 - 0.789 g/cm3
Solubility(ies)	
Solubility (water)	Complete
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	363 °C (685.4 °F) (for Ethanol)

Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidising properties	Not 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	Acids. Strong oxidising agents.
Hazardous decomposition products	No hazardous decomposition products are known.

### 11. Toxicological information

### Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).
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

Components	Species	Test Results
Acetone (CAS 67-64-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 15700 mg/kg, 24 Hours
Inhalation		
Vapour		
LC50	Rat	76 mg/l, 4 Hours
Oral		
LD50	Rat	5800 mg/kg
Ethanol (CAS 64-17-5)		
<u>Acute</u>		
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 irritatio	n.
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitisation	l de la construcción de la constru	
<b>Respiratory sensitisation</b>	Not a respiratory sensitiser.	
Skin sensitisation	This product is not expected to cause skin sensitisati	on.

Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity		
ACGIH Carcinogens		
Acetone (CAS 67-64-1)	A4	Not classifiable as a human carcinogen.
Ethanol (CAS 64-17-5)		Confirmed animal carcinogen with unknown relevance to mans.
Canada - Manitoba OELs: ca	arcinogenicity	
Acetone (CAS 67-64-1)	No	t classifiable as a human carcinogen.
Ethanol (CAS 64-17-5)	Co	nfirmed animal carcinogen with unknown relevance to humans.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harm	ful.

# 12. Ecological information

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
Acetone (CAS 67-64-1)			
Aquatic			
Acute			
Crustacea	LC50	Daphnia pulex	8800 mg/l, 48 Hours
Fish	LC50	Pimephales promelas	7163 mg/l, 96 Hours
Chronic			
Crustacea	NOEC	Daphnia magna	> 79 mg/l, 21 days
Ethanol (CAS 64-17-5)			
Aquatic			
Acute	5040	<b>F 1 7 1</b>	
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
sistence and degradability	The produ	uct is expected to be biodegradable.	

Bioaccumulative potential	The product is not expected to bioaccumulate.			
•				
Partition coefficient n-octanol / water (log Kow) Acetone (CAS 67-64-1) -0.24				
Mobility in soil	Expected to be mobile in soil.			
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.			
13. Disposal consideration	S			
Disposal 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.			
Local disposal regulations	Dispose in accordance with all applicable 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	ALCOHOLS, N.O.S. (Ethanol; Acetone)			
Transport hazard class(es)				
Class	3			
Subsidiary risk				
Packing group				
Environmental hazards	No.			
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.			
UN number	11N1087			
UN proper shipping name	UN1987 Alcohols, n.o.s. (Ethanol; Acetone)			
Transport hazard class(es)				
Class	3			
Subsidiary risk	-			
Packing group	II			
Environmental hazards	No.			
ERG Code	3L			
	Read safety instructions, SDS and emergency procedures before handling.			
IMDG				
UN number	UN1987			
UN proper shipping name Transport hazard class(es)	ALCOHOLS, N.O.S. (Ethanol; Acetone)			
Class	3			
Subsidiary risk	-			
Packing group	11			
Environmental hazards	No.			
Marine pollutant EmS	F-E, S-D			
	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 established.			
15. Regulatory information				

# 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.

Canada. Excluded VOCs. G Canada, as amended	uidelines for Volatile Organic Compounds in Consumer Products	. CEPA 1999. Environment
Acetone (CAS 67-64-1)		
Controlled Drugs and Subst	ances Act	
Not regulated.		
Export Control List (CEPA 1	999, Schedule 3)	
Not listed.		
Greenhouse Gases		
Not listed.		
Ontario. Toxic Substances.	Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)	
Acetone (CAS 67-64-1)		
Precursor Control Regulation		
Acetone (CAS 67-64-1)	Class B	
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
	European Inventory of Existing Commercial Chemical	
Europe	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
	nents of this product comply with the inventory requirements administered by the components of the product are not listed or exempt from listing on the inventor	

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	04-October-2021
Revision date	13-December-2023
Version No.	02

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.