

# SAFETY DATA SHEET

# 1. Identification

Product identifier	SDA 23A 190 Proof		
Other means of identification	None.		
Recommended use	General purpose solvent.		
Recommended restrictions	Use in accordance with manufacturer's	ecommendations.	
Manufacturer/Importer/Supplier	Distributor information		
Company Name	Greenfield Global USA Inc.		
Address	1101 Isaac Shelby Drive		
	Shelbyville, KY 40065		
	USA		
Telephone	502.232.7600		
Fax	502.633.6100		
Company Name	Greenfield Global USA Inc.		
Address	58 Vale Road		
	Brookfield, CT 06804		
	USA		
Telephone	203.740.3471		
Fax	203.740.3481		
Emergency phone number			
USA	CHEMTREC: 1.800.424.9300 (CCN 17	213)	
International	CHEMTREC: +1.703.527.3887 (CCN 1	7213)	
2. Hazard(s) identification			
Physical hazards	Flammable liquids	Category 2	
Health hazards	Serious eye damage/eye irritation	Category 2	
OSHA defined hazards	Not classified.		
Label elements			
Signal word			
Hazard statement	Danger		
	Highly flammable liquid and vapor. Caus	ses senous eye initation.	
Precautionary statement			
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective gloves/eye protection/face protection.		
Response	If in eyes: Rinse cautiously with water for	all contaminated clothing. Rinse skin with water/shower. r several minutes. Remove contact lenses, if present and tion persists: Get medical advice/attention. In case of fire:	

 

 Response
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 appropriate media to extinguish.

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

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

 Hazard(s) not otherwise classified (HNOC)
 None known.

 SDA 23A 190 Proof
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### 3. Composition/information on ingredients

Mixtures		<b></b>	
Chemical name		CAS number	%
Ethyl alcohol		64-17-5	85.73 - 92.59
Acetone		67-64-1	7.03 - 7.41
Water		7732-18-5	0 - 7.24
Composition comments	All concentrations are in percent by weight u	unless otherwise indicated.	
4. First-aid measures			
nhalation	Move to fresh air. Call a physician if sympto	ms develop or persist.	
Skin contact	Take off immediately all contaminated clothi attention if irritation develops and persists.	ing. Rinse skin with water/sh	ower. Get medical
Eye contact	Immediately flush eyes with plenty of water present and easy to do. Continue rinsing. G		
Ingestion	Rinse mouth. Get medical attention if sympt	oms occur.	
Most important symptoms/effects, acute and delayed	Headache. Severe eye irritation. Symptoms blurred vision. Coughing.	may include stinging, tearin	g, redness, swelling, s
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tr immediately. While flushing, remove clothes ambulance. Continue flushing during transp Symptoms may be delayed.	which do not adhere to affe	cted area. Call an
General information	Take off all contaminated clothing immediate material(s) involved, and take precautions to before reuse. Show this safety data sheet to	protect themselves. Wash	
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chem	nical powder. Carbon dioxide	e (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as t	this will spread the fire.	
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air of ignition and flash back. During fire, gases products may include: carbon oxides.		
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full	protective clothing must be v	worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breat so without risk. Use water spray to keep fire		rom fire area if you ca
Specific methods	Use standard firefighting procedures and co	nsider the hazards of other i	nvolved materials.
General fire hazards	Highly flammable liquid and vapor.		
6. Accidental release meas	sures		
		contraction from and unuing	

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. The product is completely soluble 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. Wipe up with absorbent material (e.g. cloth, fleece). 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

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components		Туре		V	alue	
Acetone (CAS 67-64-1)		PEL		24	100 mg/m3	
				10	000 ppm	
Ethyl alcohol (CAS 64-17-5	)	PEL		19	900 mg/m3	
				10	000 ppm	
US. ACGIH Threshold Lim	nit Values					
Components		Туре		V	alue	
Acetone (CAS 67-64-1)		STEL		50	00 ppm	
		TWA		2	50 ppm	
Ethyl alcohol (CAS 64-17-5	)	STEL		1(	000 ppm	
US. NIOSH: Pocket Guide	to Chemical Ha	azards				
Components		Туре		V	alue	
Acetone (CAS 67-64-1)		TWA		59	90 mg/m3	
				25	50 ppm	
Ethyl alcohol (CAS 64-17-5	)	TWA		19	900 mg/m3	
				10	000 ppm	
logical limit values						
ACGIH Biological Exposu						
Components	Value		Determinant	Specimen	Sampling Time	
Acetone (CAS 67-64-1)	25 mg/l		Acetone	Urine	*	
			ment.			

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

SDA 23A 190 Proof 944971 Version #: 01 Revision date: - Issue date: 04-January-2019

shower.

### Individual protection measures, such as personal protective equipment

Eye/face protection	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.
Skin protection	
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. Respirator type: Chemical respirator with organic vapor cartridge.
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.
Color	Clear liquid; invisible vapor.
Odor	Sweet. Alcohol-like.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-227.2148 °F (-144100 °C)
Initial boiling point and boiling range	173.1 - 176 °F (78.4 - 80 °C)
Flash point	44.6 - 60.8 °F (7.0 - 16.0 °C) Closed Cup
Evaporation rate	Expected to be rapid.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	3.3 % v/v (100% Ethyl alcohol)
Flammability limit - upper (%)	19 % v/v (100% Ethyl alcohol)
Vapor pressure	59.5 hPa (68 °F (20 °C))
Vapor density	1.59 - 1.6 (air = 1)
Relative density	0.785 - 0.789 g/ml
Solubility(ies)	
Solubility (water)	Completely soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	685.4 °F (363 °C) (100% Ethyl alcohol)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
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	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Acids. Strong oxidizing 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 skin contact may cause temporary irritation.
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.	
Components	Species	Test Results
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Rabbit	> 15700 mg/kg, 24 Hours
Inhalation		
Vapor		
LC50	Rat	76 mg/l, 4 Hours
Oral		
LD50	Rat	5800 mg/kg
Ethyl alcohol (CAS 64-17-5)		
Acute		
Inhalation		
Vapor		
LC50	Rat	117 - 125 mg/l, 4 Hours
Oral		
LD50	Rat	10470 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritati	on.
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitizatio	n	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitiza	tion.
Germ cell mutagenicity	No data available to indicate product or any compor- mutagenic or genotoxic.	nents present at greater than 0.1% are
Carcinogenicity	Based on available data, the classification criteria a	re not met.
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Not listed.		
NTP Report on Carcinogen	S	
Not listed.		
	ed Substances (29 CFR 1910.1001-1053)	
Not regulated. Reproductive toxicity	This product is not expected to cause reproductive	or developmental effects
		טי עביבוטטווופוונמו פוופטנא.
Specific target organ toxicity - single exposure	Not classified.	

Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
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#### **Chronic effects**

Prolonged inhalation may be harmful.

# 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
Ethyl alcohol (CAS 64-17-5)			
Aquatic	5040		
Algae	EC10	Freshwater algae	11.5 mg/l, 72 hours
	EC50	Freshwater algae	275 mg/l, 72 hours
		Marine water algae	1900 mg/l
	NOEC	Marine water algae	1580 mg/l
Fish	LC50	Freshwater fish	11200 mg/l, 24 hours
	NOEC	Freshwater fish	250 mg/l
Invertebrate	EC50	Freshwater invertebrate	5012 mg/l, 48 hours
		Marine water invertebrate	857 mg/l, 48 hours
	NOEC	Freshwater invertebrate	9.6 mg/l, 10 days
		Marine water invertebrate	79 mg/l, 96 hours
Other	EC50	Lemna minor	4432 mg/l, 7 days
	NOEC	Lemna minor	280 mg/l, 7 days
Other			
Micro-organisms	LC50	Micro-organisms	5800 mg/l, 4 hours
Terrestial		-	-
Plant	EC50	Terrestrial plant	633 mg/kg dw
sistence and degradability	No data is	available on the degradability of this pr	roduct.
accumulative potential			
Partition coefficient n-octa	anol / water (lo	og Kow)	
Acetone (CAS 67-64-1)		-0.24	
bility in soil	The produc	t is completely soluble in water.	
er adverse effects			ne depletion, photochemical ozone creation otential) are expected from this component.
. Disposal considerati	ons		
posal instructions			rs at licensed waste disposal site. Incinerate the
		Dispose of contents/container in acco	ed incinerator. Do not incinerate sealed rdance with local/regional/national/internationa
al disposal regulations	Dispose in	accordance with all applicable regulati	ons.
zardous waste code	The waste disposal co		n between the user, the producer and the waste
ste from residues / unused ducts		sidues. This material and its container r	Empty containers or liners may retain some must be disposed of in a safe manner (see:

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

DOT	
UN number	UN1993
UN proper shipping name	Flammable liquids, n.o.s. (Ethyl alcohol; Acetone)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	
Environmental hazards	
Marine pollutant	No.
	r Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB2, T7, TP1, TP8, TP28
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1993
UN proper shipping name	Flammable liquid, n.o.s. (Ethyl alcohol; Acetone)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	11
Environmental hazards	No.
ERG Code	3H
	r Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Ethyl alcohol; Acetone)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	
Environmental hazards	
Marine pollutant	No.
EmS	F-E, <u>S</u> -E
	<b>r</b> Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and	
the IBC Code	
15. Regulatory information	1
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Exp	oort Notification (40 CFR 707, Subpt. D)
Not regulated.	
5	bstance List (40 CFR 302.4)
Acetone (CAS 67-64	
SARA 304 Emergency r	
Not regulated.	
-	Ilated Substances (29 CFR 1910.1001-1053)
	autou oubstantes (20 01 11 19 10, 100 1-1039)
Not regulated.	
Toxic Substances Control	All components of the mixture on the TSCA 8(b) inventory are designated "active".
Act (TSCA)	

Superfund Amendments and		(SARA)	
SARA 302 Extremely haza	ardous substance		
Not listed.	Vaa		
SARA 311/312 Hazardous chemical	Yes		
Classified hazard categories	Flammable (gases, aeros Serious eye damage or e		
SARA 313 (TRI reporting) Not regulated.			
Other federal regulations			
Clean Air Act (CAA) Secti	on 112 Hazardous Air Pollut	ants (HAPs) List	
Not regulated. Clean Air Act (CAA) Secti Not regulated.	on 112(r) Accidental Release	e Prevention (40 CFR 68.130)	
Safe Drinking Water Act (SDWA)	Not regulated.		
Drug Enforcement Ac Chemical Code Numb		Essential Chemicals (21 CFR 1310.02(b)	and 1310.04(f)(2) and
Acetone (CAS 67- Drug Enforcement Ac		6532 2 Exempt Chemical Mixtures (21 CFR 1	310.12(c))
Acetone (CAS 67-		35 %WV	( <i>m</i>
Acetone (CAS 67-		6532	
•		d Safety in the Flavor Manufacturing Wo	orkplace
Acetone (CAS 67- Ethyl alcohol (CAS	64-1)	Low priority Low priority	
•	04-17-5)	Low phoney	
US state regulations US. Massachusetts RTK -	Substance List		
Acetone (CAS 67-64-1			
Ethyl alcohol (CAS 64-		w Act	
Acetone (CAS 67-64-1			
Ethyl alcohol (CAS 64-	17-5) and Community Right-to-Ki		
Acetone (CAS 67-64-1		IOW Law	
Ethyl alcohol (CAS 67-64- US. Rhode Island RTK			
Acetone (CAS 67-64-1	)		
Ethyl alcohol (CAS 64-			
California Proposition 65			
is not known to contain		nt Act of 2016 (Proposition 65): This mater I as carcinogens or reproductive toxins. Fo	
US. California. Candio subd. (a))	date Chemicals List. Safer C	onsumer Products Regulations (Cal. Co	ode Regs, tit. 22, 69502.3,
Acetone (CAS 67-	64-1)		
International Inventories			
Country(s) or region	Inventory name		On inventory (yes/no)*
Australia		nemical Substances (AICS)	Yes
Canada	Domestic Substances Lis	t (DSL)	Yes
Canada	Non-Domestic Substance	s List (NDSL)	No
China	Inventory of Existing Cher	mical Substances in China (IECSC)	Yes
Europe	European Inventory of Ex Substances (EINECS)	isting Commercial Chemical	Yes
Furana			
Europe	European List of Notified	Chemical Substances (ELINCS)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
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 this product complies 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, including date of preparation or last revision

Issue date	04-January-2019
Revision date	-
Version #	01
HMIS® ratings	Health: 2 Flammability: 3 Physical hazard: 0
Disclaimer	This product is subject to Greenfield Global USA Inc.'s terms and conditions, which can be found at http://www.greenfield.com/tc-po-us/. Greenfield cannot anticipate all conditions under which this information and this product, or the products of other manufacturers in combination with this product, may be used. The user is responsible for the proper and safe use, handling, storage and disposal of the product, and assumes liability for any loss, injury, damage or expense arising from any failure to do so. The data in this sheet is based on information and experience available at the time of writing.