



1. Identification

Product identifier	SDA 38B-86 190 Proof				
Other means of identification	None.				
Recommended use	General purpose solvent.				
Recommended restrictions	ommended restrictions Use in accordance with manufacturer's recommendations.				
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 1721)	,			
International	CHEMTREC: +1.703.527.3887 (CCN 17213)				
2. Hazard(s) identification					
Physical hazards Flammable liquids Category 2					
Health hazards	Serious eye damage/eye irritation	Category 2			
	Sensitization, skin	Category 1			
OSHA defined hazards	Not classified.				
Label elements					
Luber cicilients	\wedge				
	\sim \sim				
Signal word	Danger				
Hazard statement	Highly flammable liquid and vapor. Causes	serious eye irritation. May cause an allergic skin			
	reaction.				
Precautionary statement					
Prevention		not 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. Avoid breathing mist/vapor. Wash thoroughly after handling.				
	Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye				
_	protection/face protection.				
Response	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.				

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. 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.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

MIALUIES			
Chemical name		CAS number	%
Ethyl alcohol		64-17-5	91.08
Bergamot oil		8007-75-8	1.45
Water		7732-18-5	7.47
Composition comments	All concentrations are in percent by weight u	unless otherwise indicated.	
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if sympton	ms develop or persist.	
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.		
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 sympt	oms occur.	
Most important symptoms/effects, acute and delayed	Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. May cause an allergic skin reaction. Dermatitis. Rash.		
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. Show this safety data sheet to the doctor in attendance.		
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chem	nical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as t	his will spread the fire.	
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors 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 wo	rn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breatl so without risk. Use water spray to keep fire		m fire area if you ca
Specific methods	Use standard firefighting procedures and co	nsider the hazards of other inv	olved materials.
General fire hazards	Highly flammable liquid and vapor.		

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. Avoid breathing mist/vapor. 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, skin, and clothing. 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			

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(Uccu	patioi	nal ex	posure	limits	

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

Components	Туре	Value	
Ethyl alcohol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	
Ethyl alcohol (CAS 64-17-5)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to	Chemical Hazards		
Components	Туре	Value	
Ethyl alcohol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
ological limit values	No biological exposure limits noted for the ingredient(s).		
opropriate engineering ntrols	Ventilation rates should be matche exhaust ventilation, or other engine exposure limits. If exposure limits h	xplosion-proof general and local exhaust ventilation. Good general ventilation should be used. entilation rates should be matched to conditions. If applicable, use process enclosures, local chaust ventilation, or other engineering controls to maintain airborne levels below recommended posure limits. If exposure limits have not been established, maintain airborne levels to an cceptable level. Provide eyewash station and safety shower.	

Individual protection measures, such as personal protective equipment Eve/fa

ace protection	Chemical goggles are recommended
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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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

•	•
Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Clear liquid; invisible vapor.
Odor	Characteristic.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-173.2 °F (-114 °C)
Initial boiling point and boiling range	172.9 °F (78.3 °C) at 760 mm Hg
Flash point	62.6 °F (17.0 °C) Closed Cup
Evaporation rate	3.3 (butyl acetate = 1)
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	3.3 % v/v (for 100% ethyl alcohol)
Flammability limit - upper (%)	19 % v/v (for 100% ethyl alcohol)
Vapor pressure	44.6 mm Hg (68 °F (20 °C))
Vapor density	1.6 (air = 1)
Relative density	6.62 lb/gal (60 °F (15.56 °C))
Solubility(ies)	
Solubility (water)	Completely soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	685.4 °F (363 °C) (for 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.
	Material is stable under respect and diana

The product is stable and non-reactive under normal conditions of use, storage and transport.
Material is stable under normal conditions.
No dangerous reaction known under conditions of normal use.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Strong oxidizing agents.
No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	May cause an allergic skin reaction. Causes mild skin irritation.
Eye contact	Causes serious eye irritation.

Expected	to he	a low	indestion	hazard
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Symptoms related to the physical, chemical and toxicological characteristics

Ingestion

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity	Not expected to be acutely toxic.	
Components	Species	Test Results
Ethyl alcohol (CAS 64-17-5)		
Acute		
Inhalation		
Vapor LC50	Rat	117 125 mg/ 4 Hours
Oral	Nat	117 - 125 mg/l, 4 Hours
LD50	Rat	10470 mg/kg
Skin corrosion/irritation	Causes mild skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	No data available to indicate product or a mutagenic or genotoxic.	any components present at greater than 0.1% are
Carcinogenicity	Not classifiable as to carcinogenicity to h	numans.
IARC Monographs. Overall	Evaluation of Carcinogenicity	
Not listed.		
NTP Report on Carcinogens	5	
Not listed. OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-1053)	
Not regulated.		
Reproductive toxicity	This product is not expected to cause re	productive 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 harmful.	
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
Ethyl alcohol (CAS 64-	17-5)		
Aquatic			
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

Components		Species	Test Results
		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
Persistence and degradability	No data is available on the degradability of this product.		
Bioaccumulative potential	No data available for this product.		
Mobility in soil	The product is completely soluble in water.		
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
13. Disposal consideration	ns		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Dispose of contents/container in accordance with local/regional/national/international regulations.		
Local disposal regulations	Dispose in a	ccordance with all applicable regulations.	
Hazardous waste code	The waste condisposal com	ode should be assigned in discussion between pany.	een the user, the producer and the waste
Waste from residues / unused products		accordance with local regulations. Empty o lues. This material and its container must b ructions).	
Contaminated packaging		ed containers may retain product residue, fo pty containers should be taken to an appro	

14. Transport information

DOT	
UN number	UN1170
UN proper shipping name	Ethyl alcohol solution
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	II
Environmental hazards	
Marine pollutant	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	24, IB2, T4, TP1
Packaging exceptions	4b, 150
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1170
UN proper shipping name	Ethyl alcohol solution
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
ERG Code	3L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN1170
UN proper shipping name	ETHYL ALCOHOL SOLUTION

Transport hazard class(es)	
Class	3
Subsidiary risk Packing group	-
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
Special precautions for use	r 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	
U	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication
US federal regulations	Standard, 29 CFR 1910.1200.
	Notification (40 CFR 707, Subpt. D)
Not regulated. CERCLA Hazardous Substa	nce List (40 CFR 302.4)
Not listed.	
SARA 304 Emergency release	se notification
Not regulated.	d Substances (29 CFR 1910.1001-1053)
Not regulated.	a Substances (25 Cr (1910.1001-1055)
	authorization Act of 1986 (SARA)
SARA 302 Extremely hazard	
Not listed.	
SARA 311/312 Hazardous chemical	Yes
Classified hazard	Flammable (gases, aerosols, liquids, or solids)
categories	Serious eye damage or eye irritation
categories SARA 313 (TRI reporting) Not regulated.	
SARA 313 (TRI reporting) Not regulated.	Serious eye damage or eye irritation
SARA 313 (TRI reporting) Not regulated. Other federal regulations	Serious eye damage or eye irritation Respiratory or skin sensitization
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SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section Not regulated. Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) FEMA Priority Substance	Serious eye damage or eye irritation Respiratory or skin sensitization 112 Hazardous Air Pollutants (HAPs) List 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. ese Respiratory Health and Safety in the Flavor Manufacturing Workplace
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International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	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)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	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
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*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	03-October-2018
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.