



1. Identification

Product identifier	Prop Solv No 1-3, 200 Proof			
Other means of identification				
Synonyms	Denatured Ethanol			
Recommended use	General purpose solvent.			
Recommended restrictions	Use in accordance with manufacturer's recom	mendations.		
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			
Address	Brookfield, CT 06804			
	USA			
Telephone	203.740.3471			
Fax	203.740.3481			
T ux	200.1 10.0 10 1			
Emergency phone number				
USA	CHEMTREC: 1.800.424.9300 (CCN 17213)			
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		
	Carcinogenicity	Category 2		
	Reproductive toxicity	Category 2		
	Specific target organ toxicity, single exposure	Category 1 (central nervous system, optic nerve)		
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3		
	Hazardous to the aquatic environment, long-term hazard	Category 3		
OSHA defined hazards	Not classified.			
Label elements				

Signal word Hazard statement

Highly flammable liquid and vapor. Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs (central nervous system, optic nerve). Harmful to aquatic life with long lasting effects.

Danger

Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Do not breathe mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. 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/shower. 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: Get medical advice/attention. 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. Store locked up.
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

Chemical name	CAS number	%
Ethyl alcohol	64-17-5	88.18
Ethyl acetate	141-78-6	4.63
Methanol	67-56-1	4.4
2-Pentanone, 4-methyl-	108-10-1	0.93
Heptane	142-82-5	0.93
Toluene	108-88-3	0.93

Composition comments

All concentrations are in percent by weight unless otherwise indicated.

4.	FIRST	-aid n	neas	ures

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	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. 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	Narcosis. Headache. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.
delayed	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 ml.
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. IF exposed or concerned: Get medical advice/attention. 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

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 breathe mist/vapors. 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. Prevent product from entering drains.
	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. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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/vapors. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. 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

Components	Туре	Value	
2-Pentanone, 4-methyl- (CAS 108-10-1)	PEL	410 mg/m3	
· · · · ·		100 ppm	

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

Components	Туре	Value	
Ethyl acetate (CAS 141-78-6)	PEL	1400 mg/m3	
		400 ppm	
Ethyl alcohol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
Heptane (CAS 142-82-5)	PEL	2000 mg/m3	
		500 ppm	
Methanol (CAS 67-56-1)	PEL	260 mg/m3	
		200 ppm	
US. OSHA Table Z-2 (29 CFR 1910)	-		
Components	Туре	Value	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
US. ACGIH Threshold Limit Values	5		
Components	Туре	Value	
2-Pentanone, 4-methyl- (CAS 108-10-1)	STEL	75 ppm	
	TWA	20 ppm	
Ethyl acetate (CAS 141-78-6)	TWA	400 ppm	
Ethyl alcohol (CAS 64-17-5)	STEL	1000 ppm	
Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
Methanol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
2-Pentanone, 4-methyl- (CAS 108-10-1)	STEL	300 mg/m3	
		75 ppm	
	TWA	205 mg/m3	
		50 ppm	
Ethyl acetate (CAS 141-78-6)	TWA	1400 mg/m3	
		400 ppm	
Ethyl alcohol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
Heptane (CAS 142-82-5)	Ceiling	1800 mg/m3	
		440 ppm	
	TWA	350 mg/m3	
		85 ppm	
Methanol (CAS 67-56-1)	STEL	325 mg/m3	
		250 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards Components Type

Components	Туре	Value	
		200 ppm	
Toluene (CAS 108-88-3)	STEL	560 mg/m3	
		150 ppm	
	TWA	375 mg/m3	
		100 ppm	

Biological limit values

ComponentsValueDeterminantSpecimenSampling Time2-Pentanone, 4-methyl- (CAS 108-10-1)1 mg/lMethyl isobutyl ketoneUrine*Methanol (CAS 67-56-1)15 mg/lMethanolUrine*Toluene (CAS 108-88-3)0.3 mg/go-Cresol, with hydrolysisCreatinine in urine*0.03 mg/l0.03 mg/lTolueneBlood** - For sampling details, please see the source document.Blood*Exposure guidelinesUS - California OELs: Skin designation appliesMethanol (CAS 67-56-1)Can be absorbed through the skin. Can be absorbed through the skin.Toluene (CAS 108-88-3)Skin designation applies.US - California OELs: Skin designation applies. Toluene (CAS 108-88-3)Skin designation applies.US - Tennessee OELs: Skin designation Methanol (CAS 67-56-1)Skin designation applies.US - Tennessee OELs: Skin designation Methanol (CAS 67-56-1)Can be absorbed through the skin.US - Tennessee OELs: Skin designation Methanol (CAS 67-56-1)Can be absorbed through the skin.US ACGIH Threshold Limit Values: Skin designation Methanol (CAS 67-56-1)Can be absorbed through the skin.US NOSH: Pocket Guide to Chemical HazardsCan be absorbed through the skin.Methanol (CAS 67-56-1)Can be absorbed through the skin.US ACGIH Threshold Limit Values: Skin designation methanol (CAS 67-56-1)Can be absorbed through the skin.Methanol (CAS 67-56-1)Can be absorbed through the skin.US ACGIH Threshold Limit Values: Skin design	ACGIH Biological Expos	ure Indices			
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Appropriate engineering controlsExplosion-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.ndividual protection measures,such as personal protective equipment Chemical goggles are recommended.Skin protection Hand protection OtherWear appropriate chemical resistant gloves. Suitable gloves can be recommended.Skin protection OtherWear appropriate chemical resistant clothing. Use of an impervious apron is recommended.If engineering controls do not maintain airborne concentrations below recommended.If engineering controls do not maintain airborne concentrations below recommended.Skin protection OtherIf engineering controls do not maintain airborne concentrations below recommended.Skin protection OtherIf engineering controls do not maintain airborne concentrations below recommended.Respiratory protection Imits (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 wit organic vapor cartridge.		,		absorbed throug	gh the skin.
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Eye/face protectionChemical goggles are recommended.Skin protection Hand protectionWear 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 OtherWear appropriate chemical resistant clothing. Use of an impervious apron is recommended.Respiratory protection 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 wit organic vapor cartridge.	Appropriate engineering controls	Ventilation rate exhaust ventila exposure limits	es should be matched to ation, or other engineerin s. If exposure limits have	conditions. If app g controls to mai not been establi	blicable, use process enclosures, local ntain airborne levels below recommended shed, maintain airborne levels to an
Skin protection Hand protectionWear 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 OtherWear appropriate chemical resistant clothing. Use of an impervious apron is recommended.Respiratory protectionIf 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 wit organic vapor cartridge.	ndividual protection measur	es, such as persor	nal protective equipmer	nt	
Hand protectionWear 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 OtherWear appropriate chemical resistant clothing. Use of an impervious apron is recommended.Respiratory protection 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 wit organic vapor cartridge.	Eye/face protection	Chemical gogg	gles are recommended.		
Hand protectionWear 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 OtherWear appropriate chemical resistant clothing. Use of an impervious apron is recommended.Respiratory protection 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 wit organic vapor cartridge.	Skin protection				
OtherWear appropriate chemical resistant clothing. Use of an impervious apron is recommended.Respiratory protectionIf 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 wit organic vapor cartridge.	•				
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 wit organic vapor cartridge.	Skin protection				
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 wit organic vapor cartridge.	Other	Wear appropri	ate chemical resistant clo	othing. Use of an	impervious apron is recommended.
Thermal hazards Wear appropriate thermal protective clothing, when necessary.	Respiratory protection	limits (where a been establish	pplicable) or to an accep ed), an approved respira	table level (in co	untries where exposure limits have not
	Thermal hazards	Wear appropri	ate thermal protective clo	othing, when nec	essary.

General hygiene
considerationsObserve any medical surveillance requirements. 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

DhursingLadada	Lizzaid.
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-173.2 °F (-114 °C)
Initial boiling point and boiling range	176 °F (80 °C)
Flash point	57.2 °F (14.0 °C) closed cup
Evaporation rate	Expected to be rapid
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	
Flammability limit - lower (%)	3.3 % v/v
Flammability limit - upper (%)	19 % v/v
Vapor pressure	44.6 mm Hg (5.94 kPa)
Vapor density	1.6 (air = 1)
Relative density	Not available.
Solubility(ies)	
Solubility (water)	completely soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	685.4 °F (363 °C) (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	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.
11. Toxicological informat	ion
Information on likely revited of a	

Information on likely routes of exposure

mormation on incry routes of	
Inhalation	Prolonged inhalation may be harmful.
Skin contact	Prolonged skin contact may cause temporary irritation. May be absorbed through the skin.
Eye contact	Causes serious eye irritation.
Ingestion	May be harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Narcosis. Headache. Behavioral 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 ml.

cute toxicity	May be harmful if swallowe	
omponents	Species	Test Results
-Pentanone, 4-methyl- (CAS 108	3-10-1)	
<u>Acute</u>		
Dermal	Dabbit	> 16000 malka
LD50	Rabbit	> 16000 mg/kg
Oral LD50	Rat	
	Rai	3200 mg/kg
thyl acetate (CAS 141-78-6)		
<u>Acute</u> Dermal		
LD50	Rabbit	> 18000 mg/kg
Inhalation	Rabbit	
Vapor		
LC50	Rat	58.6 mg/l, 4 hours
Oral		
LD50	Rat	10170 mg/kg
thyl alcohol (CAS 64-17-5)		5.5
<u>Acute</u>		
Inhalation		
Vapor		
LC50	Rat	117 - 125 mg/l, 4 Hours
Oral		
LD50	Rat	10470 mg/kg
leptane (CAS 142-82-5)		
<u>Acute</u>		
Inhalation		
Vapor	_	
LC50	Rat	> 29.3 mg/l, 4 Hours
Oral		
LD50	Rat	15000 mg/kg
oluene (CAS 108-88-3)		
<u>Acute</u>		
Dermal	Dobbit	12200 malla
LD50	Rabbit	12200 mg/kg
Inhalation Vapor		
LC50	Rat	28.1 mg/l, 4 Hours
		v cause temporary irritation.
kin corrosion/irritation	Causes serious eye irritatio	
erious eye damage/eye ritation	Causes serious eye initalit	
espiratory or skin sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitizer	
Skin sensitization		d to cause skin sensitization.
erm cell mutagenicity		e product or any components present at greater than 0.1% are
arcinogenicity	Suspected of causing canc	er.
IARC Monographs. Overall	Evaluation of Carcinogenic	ty
2-Pentanone, 4-methyl-	-	2B Possibly carcinogenic to humans.

NTP Report on Carcinogens Not listed.	5
	d Substances (29 CFR 1910.1001-1053)
Not regulated.	
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
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. Prolonged exposure may cause chronic effects.

12. Ecological information

oxicity	Harmful to	aquatic life with long lasting effects.	
Components		Species	Test Results
2-Pentanone, 4-methyl- (CAS 108-10-1)		
Aquatic			
Acute	5050		
Crustacea	EC50	Water flea (Daphnia magna)	3682 mg/l, 24 hours
Fish	LC50	Pimephales promelas	505 mg/l, 96 Hours
Chronic	5050	Dankaia magna	
Crustacea	EC50	Daphnia magna	78 mg/l, 21 days
Fish	NOEC	Pimephales promelas	57 mg/l, 31 days
Ethyl alcohol (CAS 64-17	-5)		
Aquatic Algae	EC10	Freshwater algae	11.5 mg/l, 72 hours
Algue	EC50	Freshwater algae	275 mg/l, 72 hours
	2000	Marine water algae	1900 mg/l
	NOEC	Marine water algae	1580 mg/l
Fish	LC50	Freshwater fish	11200 mg/l, 24 hours
FISH			
luc controle no to	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
Methanol (CAS 67-56-1)			
Aquatic Acute			
Crustacea	EC50	Daphnia magna	> 10000 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	15400 mg/l, 96 hours
Toluene (CAS 108-88-3)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	11.5 mg/l, 48 hours

Components		Species	Test Results
Fish	LC50	Oncorhynchus kisutch	5.5 mg/l, 96 hours
Chronic			
Crustacea	NOEC	Ceriodaphnia dubia	0.74 mg/l, 7 days
Fish	NOEC	Oncorhynchus kisutch	1.4 mg/l, 40 days
Persistence and degradability	No data is	available on the degradability of this	product.
Bioaccumulative potential			
Partition coefficient n-octar 2-Pentanone, 4-methyl- (CAS Heptane (CAS 142-82-5) Methanol (CAS 67-56-1) Toluene (CAS 108-88-3)	\$ 108-10-1)	1.31 4.66 -0.77 2.73	
Mobility in soil	-	ct is completely soluble in water.	
Other adverse effects			zone depletion, photochemical ozone creation potential) are expected from this component.
13. Disposal consideratio	ns		
Disposal instructions	material ur containers ponds, wa	nder controlled conditions in an appro . Do not allow this material to drain ir	ners at licensed waste disposal site. Incinerate the oved incinerator. Do not incinerate sealed nto sewers/water supplies. Do not contaminate used container. Dispose of contents/container in ional regulations.
Local disposal regulations	Dispose in	accordance with all applicable regul	ations.
Hazardous waste code	The waste disposal co		on between the user, the producer and the waste
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			sidue, follow label warnings even after container is an approved waste handling site for recycling or
14. Transport information			
DOT			
UN number UN proper shipping name Transport hazard class(es)	UN1987 Alcohols, r	n.o.s. (Ethyl alcohol; Methanol)	

	UN number	UN 1967
	UN proper shipping name	Alcohols, n.o.s. (Ethyl alcohol; Methanol)
	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Label(s)	3
	Packing group	
	Environmental hazards	
	Marine pollutant	No.
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
	Special provisions	172, IB2, T7, TP1, TP8, TP28
	Packaging exceptions	4b, 150
	Packaging non bulk	202
	Packaging bulk	242
IAT	A	
	UN number	UN1987
	UN proper shipping name	Alcohols, n.o.s. (Ethyl alcohol; Methanol)
	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	UN1987			
UN proper shipping name		(Ethyl alcohol; Methanol)		
Transport hazard class(es)				
Class	3			
Subsidiary risk	-			
Packing group Environmental hazards	II			
Marine pollutant	No.			
EmS	F-E, S-D			
Special precautions for user Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	r Read safety instruction Not applicable.	ons, SDS and emergenc	<i>r</i> procedures before handling.	
15. Regulatory information	ו			
US federal regulations	This product is a "Ha Standard, 29 CFR 19		fined by the OSHA Hazard Commun	ication
TSCA Section 12(b) Exp	ort Notification (40 C	FR 707, Subpt. D)		
Not regulated. CERCLA Hazardous Su	bstance List (40 CFR	302.4)		
2-Pentanone, 4-meth		Listed.		
Ethyl acetate (CAS 1		Listed.		
Heptane (CAS 142-8 Methanol (CAS 67-5		Listed. Listed.		
Toluene (CAS 108-8		Listed.		
SARA 304 Emergency r	elease notification			
Not regulated. OSHA Specifically Regu	llated Substances (29	CFR 1910.1001-1053)		
Not regulated.				
Toxic Substances Control Act (TSCA)	All components of the	e mixture on the TSCA 8	(b) inventory are designated "active".	
Superfund Amendments and Re SARA 302 Extremely hazard		986 (SARA)		
Not listed.				
SARA 311/312 Hazardous chemical	Yes			
Classified hazard categories	Serious eye damage Carcinogenicity Reproductive toxicity	-		
SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	
2-Pentanone, 4-methyl- Methanol		108-10-1 67-56-1	0.93 4.4	
Other federal regulations				
Clean Air Act (CAA) Section		ollutants (HAPs) List		
2-Pentanone, 4-methyl- (CAS 108-10-1)			

2-Pentanone, 4-methyl- (CAS 108-10-1) Methanol (CAS 67-56-1) Toluene (CAS 108-88-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

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Contains component(s) regulated under the Safe Drinking Water Act.
Safe Drinking Water Act
(SDWA)
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	Drug Enforcement A Chemical Code Nun		ntial Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and
		methyl- (CAS 108-10-1)	6715
	Toluene (CAS 10		6594
	Drug Enforcement A	Administration (DEA). List 1 & 2 E	xempt Chemical Mixtures (21 CFR 1310.12(c))
	2-Pentanone, 4-i	methyl- (CAS 108-10-1)	35 %WV
	Toluene (CAS 10		35 %WV
	DEA Exempt Chemi	cal Mixtures Code Number	
	2-Pentanone, 4-i	methyl- (CAS 108-10-1)	6715
	Toluene (CAS 10	08-88-3)	594
	FEMA Priority Subs	tances Respiratory Health and Sa	fety in the Flavor Manufacturing Workplace
	2-Pentanone, 4-i	methyl- (CAS 108-10-1)	Low priority
	Ethyl acetate (C/		Low priority
	Ethyl alcohol (CA	AS 64-17-5)	Low priority
US state	e regulations		
US.	. Massachusetts RTK	- Substance List	
	2-Pentanone, 4-meth	vl- (CAS 108-10-1)	
	Ethyl acetate (CAS 1		
	Ethyl alcohol (CAS 64	4-17-5)	
	Heptane (CAS 142-8	2-5)	
	Methanol (CAS 67-56	ծ-1)	
	Toluene (CAS 108-88		
US.	. New Jersey Worker	and Community Right-to-Know A	ct
	2-Pentanone, 4-meth	, , , , , , , , , , , , , , , , , , ,	
	Ethyl acetate (CAS 1		
	Ethyl alcohol (CAS 64		
	Heptane (CAS 142-8	-	
	Methanol (CAS 67-56 Toluene (CAS 108-88		
211	•	er and Community Right-to-Know	l aw
00.	-		Luw
	2-Pentanone, 4-meth Ethyl acetate (CAS 1-		
	Ethyl alcohol (CAS 64		
	Heptane (CAS 142-8		
	Methanol (CAS 67-56		
	Toluene (CAS 108-88		
US.	Rhode Island RTK		
	2-Pentanone, 4-meth	yl- (CAS 108-10-1)	
	Ethyl acetate (CAS 1		
	Ethyl alcohol (CAS 64	4-17-5)	
	Heptane (CAS 142-8		
	Methanol (CAS 67-56		
	Toluene (CAS 108-88	3-3)	
Cal	ifornia Proposition 6		
	WARNING:		nemicals including 2-Pentanone, 4-methyl-, which is known to the r and birth defects or other reproductive harm. For more gs.ca.gov.
	California Propositi	on 65 - CRT: Listed date/Carcinog	ionic substance
	•	methyl- (CAS 108-10-1)	Listed: November 4, 2011
		on 65 - CRT: Listed date/Develop	
	=	-	
	2-Pentanone, 4-i Methanol (CAS 6	methyl- (CAS 108-10-1)	Listed: March 28, 2014 Listed: March 16, 2012
	Toluene (CAS 1		Listed: January 1, 1991
			umer Products Regulations (Cal. Code Regs, tit. 22, 69502.3,
	subd. (a))		
		methyl- (CAS 108-10-1)	
	Ethyl acetate (C/		
	Hentane (CAS 1	47-87-51	

Heptane (CAS 142-82-5) Methanol (CAS 67-56-1) Toluene (CAS 108-88-3)

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)	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 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	19-March-2019
Revision date	-
Version #	01
HMIS® ratings	Health: 4* 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.