



1. Identification

Product identifier	Multi Purpose General Use Formula MP 30-2, 200 Proof			
Other means of identification	None.			
Recommended use	General purpose solvent.			
Recommended 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	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 17213)			
International	CHEMTREC: +1.703.527.3887 (CCN 17213)			
2. Hazard(s) identification				
Physical hazards	Flammable liquids	Category 2		
Health hazards	Acute toxicity, oral	Category 4		
	Serious eye damage/eye irritation	Category 2		
	Specific target organ toxicity, single exposure	Category 1 (central nervous system, optic nerve)		
OSHA defined hazards	Not classified.			

Label elements



Signal word Hazard statement

Highly flammable liquid and vapor. Harmful if swallowed. Causes serious eye irritation. Causes damage to organs (central nervous system, optic nerve).

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. Do not breathe mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/eye protection/face protection.

Response	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. 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. If exposed: Call a poison center/doctor. 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	81.17 - 85.44
Methanol		67-56-1	13.71
Ethyl acetate		141-78-6	0.85
Water		7732-18-5	0.00 - 4.27
Composition comments	All concentrations are in percent by weight unless	otherwise indicated.	
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms de	velop or persist.	
Skin contact	Take off immediately all contaminated clothing. Rin attention if irritation develops and persists.	nse skin with water/sh	ower. Get medical
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 CE induce vomiting without advice from poison contro that stomach content doesn't get into the lungs. Do ingested the substance. Induce artificial respiration one-way valve or other proper respiratory medical	l center. If vomiting oc o not use mouth-to-mo n with the aid of a pock	curs, keep head low so uth method if victim
Most important symptoms/effects, acute and delayed	Narcosis. Headache. Behavioral changes. Decrea Symptoms may include stinging, tearing, redness,		
	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 sy immediately. While flushing, remove clothes which ambulance. Continue flushing during transport to h observation. Symptoms may be delayed.	do not adhere to affe	cted area. Call an
	Provide standard methanol ingestion treatment. T 100 mL of 100-proof ethyl alcohol (grain alcohol) in weight, or 100 mL for an average adult. Following antidote (0.5-1.0 mL/kg of body weight, orally or in methanol and to allow time for its excretion. Blood	n 2000 mL of water an this, at 2 hour interva travenously) to reduce	d give 1.5 mL/kg of body Is for 4 days, give the the metabolism of the
General information	Take off all contaminated clothing immediately. If y label where possible). Ensure that medical person take precautions to protect themselves. Show this Wash contaminated clothing before reuse.	nel are aware of the m	aterial(s) involved, and
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemical po	owder. Carbon dioxide	(CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this wil	l spread the fire.	
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapor of ignition and flash back. During fire, gases hazar 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 vapor.	
6. Accidental release mea	asures	
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	

Methods and materials for
containment and cleaning upcannot be contained. For personal protection, see section 8 of the SDS.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.

Environmental precautionsNever return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapors. Do not taste or swallow. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.
Conditions for safe storage,	Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge

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

Components	Туре	Value	
Ethyl alcohol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
Methanol (CAS 67-56-1)	PEL	260 mg/m3	
		200 ppm	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	
Ethyl alcohol (CAS 64-17-5)	STEL	1000 ppm	
Methanol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	
US. NIOSH: Pocket Guide to Chem	ical Hazards		
Components	Туре	Value	
Ethyl alcohol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	

US. NIOSH: Pocket Gu Components		rds Type	Va	lue
Methanol (CAS 67-56-1) 5	STEL	32	5 mg/m3
			25	0 ppm
	1	-WA	26	0 mg/m3
			20	0 ppm
Dialogical limit values				
Biological limit values ACGIH Biological Exp	osuro Indicos			
Components	Value	Determinant	Specimen	Sampling Time
Methanol (CAS 67-56-1) 15 mg/l	Methanol	Urine	*
* - For sampling details,			onne	
Exposure guidelines				
US - California OELs:	Skin decignation			
Methanol (CAS 67-	•	Can b	e absorbed throu	igh the skin
US - Minnesota Haz Si				
Methanol (CAS 67-	-		lesignation applie	es.
US - Tennessee OELs				
Methanol (CAS 67- US ACGIH Threshold I	,		e absorbed throu	gh the skin.
Methanol (CAS 67-		-	e absorbed throu	iah the skin
US. NIOSH: Pocket Gu	,			
Methanol (CAS 67-	56-1)	Can be absorbed through the skin.		
Appropriate engineering controls	Ventilation rate exhaust ventila exposure limits	Explosion-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.		
Individual protection meas	ures, such as person	al protective equipm	ent	
Eye/face protection	Chemical gogg	es 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 appropria	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		
Respiratory protectior	limits (where ap been establishe	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 appropria	te thermal protective of	lothing, when ne	cessary.
General hygiene considerations	hygiene measu	When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		
9. Physical and chem	ical properties			

Appearance **Physical state** Liquid. Form Liquid. Colorless. Color Odor Alcohol odor. Odor threshold Not available. Not available. рΗ Melting point/freezing point -227.2 - -173.2 °F (-144 - -114 °C) 170.8 - 172.9 °F (77.1 - 78.3 °C) Initial boiling point and boiling range Multi Purpose General Use Formula MP 30-2, 200 Proof

Flash point	55.4 - 62.6 °F (13.0 - 17.0 °C) Closed Cup
Evaporation rate	Expected to be rapid.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	plosive limits
Flammability limit - lower (%)	3.3 % v/v
Flammability limit - upper (%)	19 % v/v
Vapor pressure	44.6 mm Hg
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) (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	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

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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	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. 	

Information on toxicological effects

Acute toxicity	Harmful if swallowed.	
Components	Species	Test Results
Ethyl alcohol (CAS 64-17-	-5)	
<u>Acute</u>		
Inhalation		
Vapor		
LC50	Rat	117 - 125 mg/l, 4 Hours

Components	Species	Test Results	
Oral			
LD50	Rat	10470 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may c	ause temporary irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitization	n		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected t	o cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Not classifiable as to carcinogenicity to humans.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Not listed.			
NTP Report on Carcinogens	6		
Not listed.			
	ed Substances (29 CFR 1910.1	001-1053)	
Not regulated.			
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	Causes damage to organs (central nervous system, optic nerve).		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful.		

12. Ecological 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.

		5 1 1	5 5
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
		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

Components		Species	Test Results
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
Persistence and degradability	No data is av	vailable on the degradability of this produ	uct.
Bioaccumulative potential			
Partition coefficient n-octa Methanol (CAS 67-56-1)	nol / water (log	-0.77	
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	ons		
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 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			e, follow label warnings even after container is proved waste handling site for recycling or

14. Transport information

DOT	
UN number	UN1987
UN proper shipping name	Alcohols, n.o.s. (Ethyl alcohol; Methanol RQ = 36470 LBS)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	Ш
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
ΙΑΤΑ	
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
	Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN1987
UN proper shipping name	ALCOHOLS, N.O.S. (Ethyl alcohol; Methanol)

Transport hazard class(es)	_		
Class	3		
Subsidiary risk Packing group	-		
Environmental hazards			
Marine pollutant	No.		
EmS	F-E, S-D		
Special precautions for user		and emergency p	rocedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.		
15. Regulatory information	1		
US federal regulations	This product is a "Hazardous Standard, 29 CFR 1910.1200		ed by the OSHA Hazard Communication
TSCA Section 12(b) Exp	ort Notification (40 CFR 707,	Subpt. D)	
Not regulated. CERCLA Hazardous Sub	ostance List (40 CFR 302.4)		
Methanol (CAS 67-56	,	Listed.	
SARA 304 Emergency re	ease notification		
Not regulated. OSHA Specifically Regu Not regulated.	lated Substances (29 CFR 19	10.1001-1053)	
Toxic Substances Control Act (TSCA)	All components of the mixture	on the TSCA 8(b)	inventory are designated "active".
Superfund Amendments and Rea	authorization Act of 1986 (SA	RA)	
SARA 302 Extremely hazard Not listed.	-		
SARA 311/312 Hazardous chemical	Yes		
Classified hazard categories	Flammable (gases, aerosols, liquids, or solids) Acute toxicity (any route of exposure) Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure)		
SARA 313 (TRI reporting)			
Chemical name	CAS	6 number	% by wt.
Methanol	67-	56-1	13.71
Other federal regulations			
	112 Hazardous Air Pollutants	s (HAPs) List	
Methanol (CAS 67-56-1) Clean Air Act (CAA) Section	112(r) Accidental Release Pr	evention (40 CFR	68.130)
Not regulated.			
Safe Drinking Water Act (SDWA)	Contains component(s) regula	ated under the Safe	e Drinking Water Act.
FEMA Priority Substanc	es Respiratory Health and Sa	afety in the Flavor	Manufacturing Workplace
Ethyl alcohol (CAS 64	1 -17-5)	Low priority	
US state regulations			
US. Massachusetts RTK - Su	ibstance List		
Ethyl alcohol (CAS 64-17- Methanol (CAS 67-56-1) US. New Jersey Worker and		ct	
Ethyl alcohol (CAS 64-17- Methanol (CAS 67-56-1)			
US. Pennsylvania Worker and Community Right-to-Know Law			
Ethyl alcohol (CAS 64-17- Methanol (CAS 67-56-1)	5)		
Multi Purposo Conoral Uso Formula M	1 P 20 2 200 Proof		

US. Rhode Island RTK

Ethyl alcohol (CAS 64-17-5) Methanol (CAS 67-56-1)

California Proposition 65



WARNING: This product can expose you to Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Developmental toxin

Methanol (CAS 67-56-1) Listed: March 16, 2012

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Methanol (CAS 67-56-1)

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.