

SAFETY DATA SHEET

1. Identification

Product identifier	MEK			
Other means of identification				
CAS number	78-93-3			
Synonyms	2-Butanone ; Ethyl Methyl Ketone ; MEK ; Methyl Acetone			
Recommended use	General purpose solvent.			
Recommended restrictions	Use in accordance with manufacturer's recommendations.			
Manufacturer/Importer/Supplier/				
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			
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 2A		
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation		
	Specific target organ toxicity, single exposure			
OSHA defined hazards	Not classified.			
Label elements				
Signal word	Danger			
Hazard statement	Highly flammable liquid and vapor. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.			
Precautionary statement				
Prevention	closed. Ground/bond container and receiving electrical/ventilating/lighting equipment. Use of	nly non-sparking tools. Take precautionary thing mist/vapor. Wash thoroughly after handling.		

Response	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%		
Methyl ethyl ketone	2-Butanone ; Ethyl Methyl Ketone ; MEK ; Methyl Acetone	78-93-3	100		
Composition comments	All concentrations are in percent by weight unless otherwise indicated.				
4. First-aid measures					
Inhalation	Remove victim to fresh air and keep at rest in a p center or doctor/physician if you feel unwell.	osition comfortable for bre	eathing. Call a poisc		
Skin contact	Take off immediately all contaminated clothing. R attention if irritation develops and persists.	linse skin with water/show	er. 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	Rinse mouth. Get medical attention if symptoms	occur.			
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation.				
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 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. Wash contaminated clothing before reuse. Show this safety data sheet to the doctor in attendance.				
5. Fire-fighting measures					
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon	dioxide (CO2).			
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.				
Specific hazards arising from the chemical	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 prote	ctive clothing must be wor	n 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 car 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.				

General fire hazards Highly flammable liquid and vapor.

6. Accidental release measures

	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
emergency procedures	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 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. Do not breathe mist or vapor. 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	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

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

Material	Тур	e	Va	lue
Methyl ethyl ketone (CAS 78-93-3)	PEL		59	0 mg/m3
			20	0 ppm
US. ACGIH Threshold Lin	nit Values			
Material	Тур	e	Va	lue
Methyl ethyl ketone (CAS 78-93-3)	STE	L	30	0 ppm
	TWA	A	20	0 ppm
US. NIOSH: Pocket Guide	e to Chemical Hazards			
Material	Тур	9	Va	lue
Methyl ethyl ketone (CAS 78-93-3)	STE	L	88	5 mg/m3
			30	0 ppm
	TWA	A	59	0 mg/m3
			20	0 ppm
ogical limit values				
ACGIH Biological Exposu	ire Indices			
Material	Value	Determinant	Specimen	Sampling Time
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*
* - For sampling details nle	ase see the source doo	sument		

* - For sampling details, please see the source document.

Appropriate engineering	Explosion-proof general and local exhaust ventilation. Good general ventilation should be used.
controls	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 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	Colorless, clear.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-124.6 °F (-87 °C)
Initial boiling point and boiling	176 °F (80 °C)
range	
Flash point	15.8 °F (-9.0 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	
Flammability limit - lower	1.8 % v/v
(%) Flowmakility limit unner	10.1 % v/v
Flammability limit - upper (%)	10.1 % ٧/٧
Vapor pressure	95 hPa (71 mmHg) (68 °F (20 °C))
Vapor density	2.5
Relative density	0.805 g/ml (68 °F (20 °C))
Solubility(ies)	
Solubility (water)	soluble
Auto-ignition temperature	759.2 °F (404 °C)
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Molecular formula	C4-H8-O
Molecular weight	72.11 g/mol
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	Hazardous polymerization does not occur.
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.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause irritation to the respiratory system. Prolonged inhalation may be harmful.		
Skin contact	Prolonged skin contact may cause temporary irritation.		
Eye contact	Causes serious eye irritation.		
Ingestion	May be harmful if swallowed.		
Symptoms related to the physical, chemical and toxicological characteristics	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation.		

Information on toxicological effects

Acute toxicity	May be harmful if swallowed.		
Product	Species	Test Results	
Methyl ethyl ketone (CAS 78-93-3	3)		
Acute			
Dermal			
LD50	Rat	6400 mg/kg	
Inhalation			
Vapor			
LC50	Rat	34.5 mg/l, 4 Hours	
Oral			
LD50	Rat	2600 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may cause t	emporary irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitizatio	n		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to 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 Carcinogen	S		
Not listed.	d Substances (20 CEB 4040 4004 4	0.52)	
Not regulated.	ed Substances (29 CFR 1910.1001-10	55)	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity -			
single exposure	May cause respiratory irritation. May cause drowsiness and dizziness.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.		
Chronic effects	Prolonged inhalation may be harmful.		
12. Ecological information	1		
Ecotoxicity		ronmentally hazardous. However, this does not exclude the	

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.

Product		Species	Test Results		
Methyl ethyl ketone (CAS 78-	93-3)				
Aquatic					
Acute					
Crustacea	EC50	Daphnia magna	5091 mg/l, 48 Hours		
Fish	LC50	Pimephales promelas	3220 mg/l, 96 Hours		
Persistence and degradability	No data is av	No data is available on the degradability of this substance.			
Bioaccumulative potential	No data avai	No data available for this product.			
Mobility in soil	The product	is soluble in water.			
Other adverse effects			g. ozone depletion, photochemical ozone creation ing 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 re	egulations.		
Hazardous waste code	disposal corr	ipany.	ussion between the user, the producer and the waste		
US RCRA Hazardous Waste					
Methyl ethyl ketone (CAS	-	U159	—		
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).				
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.				
14. Transport information					
DOT					
UN number	UN1193				
UN proper shipping name Transport hazard class(es)	Methyl ethyl	ketone (METHYL ETHYL KET	ONE RQ = 5,000 lbs)		
Class	3				
Subsidiary risk Label(s)	-	- 3			
Packing group	II				
Environmental hazards					
Marine pollutant Special precautions for use Special provisions Packaging exceptions Packaging non bulk Packaging bulk	No. Pr Read safety instructions, SDS and emergency procedures before handling. IB2, T4, TP1 150 202 242				
ΙΑΤΑ					
UN number UN proper shipping name Transport hazard class(es)	UN1193 Methyl ethyl	ketone			
Class	3				
Subsidiary risk	-				
Packing group Environmental hazards					
ERG Code	No. 3L				
	-	instructions, SDS and emerger	ncy procedures before handling.		
IMDG		-			
UN number UN proper shipping name	UN1193 METHYL ET	HYL KETONE			

Transport hazard class(es) Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
	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	n
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) Export	Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Substa	
Methyl ethyl ketone (CAS SARA 304 Emergency relea	
Not regulated.	A Substances (20 CEB 4040 4004 4052)
Not regulated.	ed Substances (29 CFR 1910.1001-1053)
u u	nutherization Act of 4006 (CADA)
Superrund Amendments and Re SARA 302 Extremely hazard	eauthorization Act of 1986 (SARA)
Not listed.	
SARA 311/312 Hazardous chemical	Yes
Classified hazard categories	Flammable (gases, aerosols, liquids, or solids) Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure)
	Serious eye damage or eye irritation
categories SARA 313 (TRI reporting) Not regulated.	Serious eye damage or eye irritation
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US. Rhode Island RTK

Methyl ethyl ketone (CAS 78-93-3)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

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

Methyl ethyl ketone (CAS 78-93-3)

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-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.