

SAFETY DATA SHEET

1. Identification

Product identifier	Acetonitrile	
Other means of identification		
CAS number	75-05-8	
Synonyms	Ethanenitrile ; Methyl cyanide ; Cyanomethan	e
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	
	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
	Acute toxicity, dermal Category 4	
	-	

OSHA defined hazards

Label elements



Acute toxicity, inhalation

Not classified.

Serious eye damage/eye irritation

Signal word Hazard statement

Highly flammable liquid and vapor. Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes serious eye irritation.

Category 4

Category 2

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. Avoid breathing vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing. 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. 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. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. 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

Substances

Chemical name	Common name and synonyms	CAS number	%
Acetonitrile	Ethanenitrile ; Methyl cyanide ; Cyanomethane	75-05-8	100

All concentrations are in percent by weight unless otherwise indicated.

4. First-aid measures	
Inholation	

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
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. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	Convulsions. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
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 warm. 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. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Alcohol resistant 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, nitrogen oxides, hydrogen cyanide.
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 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 inhalation of vapors and spray mists. 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. This product is miscible 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. 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 taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.		
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).		

8. Exposure controls/personal protection

Occupational exposure limits

Material	Туре	Value
Acetonitrile (CAS 75-05-8)	PEL	70 mg/m3
		40 ppm
US. ACGIH Threshold Limit	t Values	
Material	Туре	Value
Acetonitrile (CAS 75-05-8)	TWA	20 ppm
US. NIOSH: Pocket Guide to	o Chemical Hazards	
Material	Туре	Value
Acetonitrile (CAS 75-05-8)	TWA	34 mg/m3
		20 ppm
ogical limit values	No biological exposure limits noted for the ingredient(s).	
osure guidelines		
US - California OELs: Skin	designation	
Acetonitrile (CAS 75-05-8)		Can be absorbed through the skin.
US - Minnesota Haz Subs: S	Skin designation applies	
Acetonitrile (CAS 75-05-	8)	Skin designation applies.

Can be absorbed through the skin.

Acetonitrile

Appropriate engineering controls	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 measures,	such as personal protective equipment
Eye/face protection	Chemical goggles are recommended.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Laminate gloves are recommended. Other 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. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	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 chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Clear liquid; invisible vapor.
Odor	Ethereal.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	-50.8 °F (-46 °C)
Initial boiling point and boiling range	178.9 °F (81.6 °C) 101.325 kPa
Flash point	55.0 °F (12.8 °C) Closed Cup
Evaporation rate	Expected to be rapid.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	4 % v/v
Flammability limit - upper (%)	16 % v/v
Vapor pressure	119.81 hPa (77 °F (25 °C))
Vapor density	Not available.
Relative density	0.786 g/ml (77 °F (25 °C))
Solubility(ies)	
Solubility (water)	soluble
Auto-ignition temperature	975.2 °F (524 °C)
Decomposition temperature	Not pertinent
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Molecular formula	C2-H3-N
Molecular weight	41.05 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.	
Incompatible materials	Strong oxidizing agents.	
Hazardous decomposition products	Hydrogen cyanide. Nitrogen oxides.	

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled.
Skin contact	Harmful in contact with skin.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Convulsions. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Information on toxicological ef	ffects		
Acute toxicity	Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed.		
Product	Species	Test Results	
Acetonitrile (CAS 75-05-8)			
Acute			
Inhalation			
Vapor			
LC50	Mouse	3587 ppm, 4 Hours	
Oral			
LD50	Mouse	617 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may	cause temporary irritation. May be absorbed through the skin.	
Serious eye damage/eye irritation	Causes serious eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization	on		
Respiratory sensitization	Not a respiratory sensitizer.	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected	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 carcine	Not classifiable as to carcinogenicity to humans.	
IARC Monographs. Overal Not listed.	I Evaluation of Carcinogenici	ty	
NTP Report on Carcinoger	ns		
Not listed.			
OSHA Specifically Regula	ted Substances (29 CFR 1910	.1001-1053)	
Not listed.			
Reproductive toxicity	This product is not expected	to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.	Not classified.	
Aspiration hazard	Not an 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.
Persistence and degradability	No data is available on the degradability of this substance.
Bioaccumulative potential	No data available for this product.
Mobility in soil	The product is completely soluble in water. Expected to be mobile in soil.
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 considerations

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.		
US RCRA Hazardous Waste U List: Reference			
Acetonitrile (CAS 75-05-8	3) U003		
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

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Packing group	Packing group	II

Environmental hazards			
Marine pollutant	No.		
EmS	F-E, S-D Read safety instructions, SDS and emergency procedures before handling.		
Special precautions for use Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code		n transported in bulk is covere	d under MARPOL 73/78 Annex II.
15. Regulatory informatio	n		
US federal regulations	This product is a "Hazardous Ch Standard, 29 CFR 1910.1200.	emical" as defined by the OS	HA Hazard Communication
.,	TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)		
Not regulated.	ıbstance List (40 CFR 302.4)		
Acetonitrile (CAS 75		_isted.	
SARA 304 Emergency			
Not regulated. OSHA Specifically Reg Not listed.	ulated Substances (29 CFR 1910	.1001-1053)	
Toxic Substances Control	Act (TSCA) This sub	stance is on the TSCA 8(h) in	ventory and is designated "active".
	eauthorization Act of 1986 (SAR		
SARA 302 Extremely hazar	•	-,	
Not listed.			
SARA 311/312 Hazardous chemical	Yes		
Classified hazard	Flammable (gases, aerosols, liq		
categories	Acute toxicity (any route of expo Serious eye damage or eye irrita		
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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)	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
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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	09-May-2019
Revision date	-
Version #	01
HMIS® ratings	Health: 2 Flammability: 3 Physical hazard: 0
Disclaimer	This product is subject to Greenfield Global USA Inc.'s terms and conditions, which can be found at http://www.greenfield.com/tc-po-us/. Greenfield cannot anticipate all conditions under which this information and this product, or the products of other manufacturers in combination with this product, may be used. The user is responsible for the proper and safe use, handling, storage and disposal of the product, and assumes liability for any loss, injury, damage or expense arising from any failure to do so. The data in this sheet is based on information and experience available at the time of writing.