GREENFIELD

SAFETY DATA SHEET

1. Identification

Product identifier Ethyl Alcohol (95.2-95.6%)

Other means of identification

Synonyms Ethanol, Alcohol, Ethyl Alcohol 190.4 to 191.2 US proof, Ethyl Alcohol DPS (95.2-95.6% vol), Ethyl

Alcohol DS (95.2-95.6% vol), Ethyl Alcohol VS (95.2-95.6% vol)

Recommended useGeneral purpose organic solvent, aerosols, cosmetics, pharmaceuticals, etc.

Recommended restrictions Refer to the alcohol control authority in which the product is to be used - Canada Revenue Agency

(Excise) in Canada, US Tax and Trade Bureau in the US, etc.

Manufacturer/Importer/Supplier/Distributor information

Company name Greenfield Global Inc. **Address** 6985 Financial Drive

Missisauga, Ontario L5N 0G3

Canada

Telephone (905) 790-7500

Website http://www.greenfield.com
Emergency phone number CHEMTREC: 1-800-424-9300

2. Hazard identification

Physical hazardsFlammable liquidsCategory 2Health hazardsSerious eye damage/eye irritationCategory 2

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapour. Causes serious eye irritation.

Precautionary statement

Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wash thoroughly after handling. 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. IF IN

EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire:

Use appropriate media to extinguish.

Storage Store in a well-ventilated place. Keep cool.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information None.

Other hazards None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Ethanol		64-17-5	92.69 - 93.26

Ethyl Alcohol (95.2-95.6%) SDS Canada

Composition comments

All concentrations are in percent by weight.

Components not listed are either non-hazardous or are below reportable limits.

4. First-aid measures

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

Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Headache, Severe eve irritation, Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General information

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

6. Accidental release measures

Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Specific methods

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

Highly flammable liquid and vapour.

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 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. 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. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage

Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Ethyl Alcohol (95.2-95.6%) SDS Canada 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	Occu	pational	exposure	limits
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Components	it Values Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
•	ccupational Health & Safety Code, Scheo	•
Components	Туре	Value
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3
		1000 ppm
		or Chemical Substances, Occupational Health and
Safety Regulation 296/97,	•	
Components	Туре	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Canada. Manitoba OELs (I	Reg. 217/2006, The Workplace Safety An	d Health Act)
Components	Туре	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Canada, Ontario OELs. (C	ontrol of Exposure to Biological or Cher	nical Agents)
Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Ethanol (OAO 04-11-5)	SILL	1000 βριτί
Canada. Quebec OELs. (M Components	linistry of Labor - Regulation respecting Type	occupational health and safety) Value
	-76-	
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3
		1880 mg/m3 1000 ppm
Ethanol (CAS 64-17-5)		1000 ppm
Ethanol (CAS 64-17-5) Canada. Saskatchewan O	TWA ELs (Occupational Health and Safety Re	1000 ppm gulations, 1996, Table 21)
Ethanol (CAS 64-17-5) Canada. Saskatchewan Ol Components	TWA ELs (Occupational Health and Safety Re Type	1000 ppm gulations, 1996, Table 21) Value
Ethanol (CAS 64-17-5) Canada. Saskatchewan Ole Components Ethanol (CAS 64-17-5)	TWA ELs (Occupational Health and Safety Re Type 15 minute 8 hour	1000 ppm gulations, 1996, Table 21) Value 1250 ppm 1000 ppm
Ethanol (CAS 64-17-5) Canada. Saskatchewan Ol Components Ethanol (CAS 64-17-5)	TWA ELs (Occupational Health and Safety Re Type 15 minute 8 hour No biological exposure limits noted for	1000 ppm gulations, 1996, Table 21) Value 1250 ppm 1000 ppm the ingredient(s).
Ethanol (CAS 64-17-5) Canada. Saskatchewan Ole Components Ethanol (CAS 64-17-5)	TWA ELs (Occupational Health and Safety Re Type 15 minute 8 hour No biological exposure limits noted for Explosion-proof general and local exha Ventilation rates should be matched to exhaust ventilation, or other engineerin	1000 ppm gulations, 1996, Table 21) Value 1250 ppm 1000 ppm the ingredient(s). ust ventilation. Good general ventilation should be used conditions. If applicable, use process enclosures, local g controls to maintain airborne levels below recommend not been established, maintain airborne levels to an
Ethanol (CAS 64-17-5) Canada. Saskatchewan Ole Components Ethanol (CAS 64-17-5) logical limit values propriate engineering atrols	TWA ELs (Occupational Health and Safety ReType 15 minute 8 hour No biological exposure limits noted for Explosion-proof general and local exhat Ventilation rates should be matched to exhaust ventilation, or other engineerin exposure limits. If exposure limits have acceptable level. Provide eyewash statts, such as personal protective equipments.	1000 ppm gulations, 1996, Table 21) Value 1250 ppm 1000 ppm the ingredient(s). ust ventilation. Good general ventilation should be used conditions. If applicable, use process enclosures, local g controls to maintain airborne levels below recommend not been established, maintain airborne levels to an ion and safety shower.
Ethanol (CAS 64-17-5) Canada. Saskatchewan Ole Components Ethanol (CAS 64-17-5) logical limit values propriate engineering atrols	TWA ELs (Occupational Health and Safety ReType 15 minute 8 hour No biological exposure limits noted for Explosion-proof general and local exhat Ventilation rates should be matched to exhaust ventilation, or other engineerin exposure limits. If exposure limits have acceptable level. Provide eyewash states.	1000 ppm gulations, 1996, Table 21) Value 1250 ppm 1000 ppm the ingredient(s). ust ventilation. Good general ventilation should be used conditions. If applicable, use process enclosures, local g controls to maintain airborne levels below recommend not been established, maintain airborne levels to an ion and safety shower.
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Ethanol (CAS 64-17-5) Canada. Saskatchewan Ole Components Ethanol (CAS 64-17-5) logical limit values propriate engineering atrols ividual protection measure Eye/face protection	TWA ELs (Occupational Health and Safety ReType 15 minute 8 hour No biological exposure limits noted for Explosion-proof general and local exhat Ventilation rates should be matched to exhaust ventilation, or other engineerin exposure limits. If exposure limits have acceptable level. Provide eyewash states, such as personal protective equipment Wear safety glasses with side shields (Wear appropriate chemical resistant glasses)	1000 ppm gulations, 1996, Table 21) Value 1250 ppm 1000 ppm the ingredient(s). ust ventilation. Good general ventilation should be used conditions. If applicable, use process enclosures, local g controls to maintain airborne levels below recommend not been established, maintain airborne levels to an ion and safety shower. nt or goggles). oves. Butyl rubber or Viton® gloves are recommended. nded by the glove supplier. Be aware that the liquid may
Ethanol (CAS 64-17-5) Canada. Saskatchewan Ole Components Ethanol (CAS 64-17-5) logical limit values propriate engineering atrols ividual protection measure Eye/face protection Skin protection	TWA ELs (Occupational Health and Safety ReType 15 minute 8 hour No biological exposure limits noted for Explosion-proof general and local exhatoeventilation rates should be matched to exhaust ventilation, or other engineerin exposure limits. If exposure limits have acceptable level. Provide eyewash statoeventilation, or other engineering exposure limits and exposure limits have acceptable level. Provide eyewash statoeventilation, or other engineering exposure limits have acceptable level. Provide eyewash statoeventilation, or other engineering exposure limits have acceptable level. Provide eyewash statoeventilation, or other exposure limits have acceptable level. Provide eyewash statoeventilation, or other engineering exposure limits have acceptable level. Provide eyewash statoeventilation, or other engineering exposure limits have acceptable level. Provide eyewash statoeventilation, or other engineering exposure limits have acceptable level. Provide eyewash statoeventilation, or other engineering exposure limits have acceptable level. Provide eyewash statoeventilation, or other engineering exposure limits have acceptable level. Provide eyewash statoeventilation, or other engineering exposure limits have acceptable level. Provide eyewash statoeventilation, or other engineering exposure limits have acceptable level. Provide eyewash statoeventilation.	gulations, 1996, Table 21) Value 1250 ppm 1000 ppm the ingredient(s). ust ventilation. Good general ventilation should be used conditions. If applicable, use process enclosures, local g controls to maintain airborne levels below recommend not been established, maintain airborne levels to an ion and safety shower. It or goggles). Dives. Butyl rubber or Viton® gloves are recommended. Indeed by the glove supplier. Be aware that the liquid may is advisable.
Ethanol (CAS 64-17-5) Canada. Saskatchewan Ol Components Ethanol (CAS 64-17-5) logical limit values propriate engineering atrols ividual protection measure Eye/face protection Skin protection Hand protection	TWA ELs (Occupational Health and Safety ReType 15 minute 8 hour No biological exposure limits noted for Explosion-proof general and local exha Ventilation rates should be matched to exhaust ventilation, or other engineerin exposure limits. If exposure limits have acceptable level. Provide eyewash stats, such as personal protective equipmer Wear safety glasses with side shields (Wear appropriate chemical resistant glother suitable gloves can be recomme penetrate the gloves. Frequent change Wear appropriate chemical resistant clother suitable gloves do not maintain limits (where applicable) or to an acceptable in the safety glasses with side shields (gulations, 1996, Table 21) Value 1250 ppm 1000 ppm the ingredient(s). ust ventilation. Good general ventilation should be used conditions. If applicable, use process enclosures, local g controls to maintain airborne levels below recommend not been established, maintain airborne levels to an ion and safety shower. nt or goggles). oves. Butyl rubber or Viton® gloves are recommended. Inded by the glove supplier. Be aware that the liquid may is advisable. othing. airborne concentrations below recommended exposure stable level (in countries where exposure limits have not attor must be worn. Respirator type: Chemical respirator of the content of the countries o

Ethyl Alcohol (95.2-95.6%) SDS Canada

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.
Colour Colourless.
Odour Alcoholic.
Odour threshold Not available.
pH Not available.

Melting point/freezing point -115 °C (-175 °F) (Approximate) Initial boiling point and boiling 78.3 - 100 °C (172.94 - 212 °F)

range

Flash point 16 °C (60.8 °F) Tag closed cup (ASTM D56)

19 % (Ethanol)

Evaporation rate 1.7 (Butyl acetate = 1) (Ethanol)

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) 3.3 % (Ethanol)

Explosive limit – upper (%)

Vapour pressure 44 mm Hg @ 20 °C (Ethanol)

Vapour density 1.56 (Air = 1)

Relative density 0.808 - 0.81 (20 °C (68 °F))

Solubility(ies)

Solubility (water) Complete

Partition coefficient 0.032 (Approximate)

(n-octanol/water)

Auto-ignition temperature 370 °C (698 °F) (Approximate)

Decomposition temperature Not available. **Viscosity** Not available.

Other information

Dynamic viscosity 1.35 cP (Approximate) (20 °C (68 °F))

Explosive properties Not explosive.

Oxidising properties Not oxidising.

Percent volatile 100 % v/v

10. Stability and reactivity

ReactivityThe 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 avoidAvoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.

Incompatible materials Strong oxidising agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Prolonged or repeated skin contact may cause drying, cracking, or irritation.

Eye contact Causes serious eye irritation.

Ethyl Alcohol (95.2-95.6%) SDS Canada

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and

blurred vision. Coughing.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components **Test Results Species**

Ethanol (CAS 64-17-5)

Acute Inhalation Vapour

LC50 Rat 117 - 125 mg/l, 4 Hours

Oral

LD50 Rat 10470 mg/kg

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Respiratory sensitisation Not a respiratory sensitiser.

Skin sensitisation This product is not expected to cause skin sensitisation.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity

ACGIH Carcinogens

Ethanol (CAS 64-17-5) A3 Confirmed animal carcinogen with unknown relevance to

Canada - Manitoba OELs: carcinogenicity

Ethanol (CAS 64-17-5) Confirmed animal carcinogen with unknown relevance to humans.

Reproductive toxicity Possible reproductive hazard.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
Ethanol (CAS 64-17-5)			
Aquatic			
Acute			
Algae	EC10	Freshwater algae	11.5 mg/l, 72 hours
	EC50	Freshwater algae	275 mg/l, 72 hours
		Marine water algae	1900 mg/l
Fish	LC50	Freshwater fish	11200 mg/l, 24 hours
Invertebrate	EC50	Freshwater invertebrate	5012 mg/l, 48 hours
		Marine water invertebrate	857 mg/l, 48 hours
Other	EC50	Lemna minor	4432 mg/l, 7 days
Chronic			
Algae	NOEC	Marine water algae	1580 mg/l

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Components		Species	Test Results	
Fish	NOEC	Freshwater fish	250 mg/l	
Invertebrate	NOEC	Freshwater invertebrate	9.6 mg/l, 10 days	
		Marine water invertebrate	79 mg/l, 96 hours	
Other	NOEC	Lemna minor	280 mg/l, 7 days	
Other				
Acute				
Micro-organisms	LC50	Micro-organisms	5800 mg/l, 4 hours	
Terrestrial				
Acute				
Plant	EC50	Terrestrial plant	633 mg/kg dw	

Persistence and degradability

Expected to be readily biodegradable.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Ethyl Alcohol (95.2-95.6%) 0.032, (Approximate)

Mobility in soil Expected to be highly mobile in soil.

Other adverse effects

The product contains volatile organic compounds which have a photochemical ozone creation

potential.

13. Disposal considerations

Disposal instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste codeThe 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 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

TDG

UN number UN1170 UN proper shipping name ETHANOL

Transport hazard class(es)

Class 3
Subsidiary risk Packing group II
Environmental hazards No.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number UN1170 UN proper shipping name Ethanol

Transport hazard class(es)

Class 3
Subsidiary risk Packing group II
Environmental hazards No.
ERG Code 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1170 **UN proper shipping name** ETHANOL

Transport hazard class(es)
Class

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Subsidiary risk Packing group ||
Environmental hazards

Marine pollutant No. EmS F-E, S-D

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

This product is not intended to be transported in bulk.

15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto Protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region

Australia	Australian Inventory of Industrial Chemicals (AICIS)	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
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Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

16. Other information

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Inventory name

On inventory (yes/no)*

^{*}A "Yes" indicates that all components of this product comply 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).

Version No. Disclaimer 02

This product is subject to Greenfield Global Inc.'s terms and conditions, which can be found at http://www.greenfield.com/tc-po-can/. The information in this SDS is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the material and not as a guarantee of the properties thereof. No warranty guarantee or representation is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy itself as to the suitability of such information for its own particular use. This information relates only to the specific product designated and may not be valid for such product used in combination with any other materials or in any process. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations applicable to the use, storage, or handling of the product. THE COMPANY MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, OR USAGE OF TRADE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED. Given the variety of factors that can affect the use and application of the product, which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to independently determine whether it is fit for a particular purpose, suitable, safe, and/or lawful for user's method of use or application.