



according to OSHA HCS (29 CFR 1910.1200), WHMIS 2015 Regulations and

Globally Harmonized System (GHS)

Revision: June 26, 2023

1 Identification

- · Product identifier
- · Trade name: Sterno Ethanol Green 45 min
- · Product code: No other identifiers
- · Recommended use and restriction on use
- · Recommended use: Food Warming Chafing Fuel
- · Restrictions on use: No relevant information available.
- · Details of the supplier of the Safety Data Sheet

• Manufacturer/Supplier: Sterno, LLC 6900 North Dallas Parkway, Suite 870 Plano, TX 75024 Phone: (951) 682-9600

• Emergency telephone number: ChemTel Inc. +1 (800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

Classification of the substance or mixture Flam. Liq. 2 H225 Highly flammable liquid and vapor. Eye Irrit. 2A H319 Causes serious eye irritation. Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms:



· Signal word: Danger

· Hazard statements:

- H225 Highly flammable liquid and vapor.
- H319 Causes serious eye irritation.

· Precautionary statements:

P210Keep away from heat/sparks/open flames/hot surfaces. No smoking.P241Use explosion-proof electrical/ventilating/lighting/equipment.

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P260	Do not breathe mist/vapors/spray.	
P264	Wash thoroughly after handling.	
P280	Wear protective gloves and eye protection.	
P240	Ground/bond container and receiving equipment.	
P233	Keep container tightly closed.	
P242	Use only non-sparking tools.	
P243	Take precautionary measures against static discharge.	
P270	Do not eat, drink or smoke when using this product.	
P271	Use only outdoors or in a well-ventilated area.	
P303+P361+P35	3 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P305+P351+P33	8 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P330	Rinse mouth.	
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.	
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P403+P235	Store in a well-ventilated place. Keep cool.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	
· Classification	system	
· NFPA ratings (se		
Health		
Fire = Reacti	3 ivity = 0	
· HMIS-ratings (so	cale 0 - 4)	
HEALTH 1 Heal	th = *1	
FIRE 3 Fire :		
REACTIVITY 0 Read	ctivity = 0	
· Other hazards	There are no other hazards not otherwise classified that have been identified.	
3 Composition	information on ingredients	

· Chemical characterization: Mixtures

· Components:			
64-17-5	ethanol	Flam. Liq. 2, H225 Eye Irrit. 2A, H319	>50%
75-65-0	tert-Butyl alcohol	 Flam. Liq. 2, H225 Eye Irrit. H320 	<1%
 Non-hazardous Components: Bitrex (denatonium benzoate) - CAS# 3734-33-6 <1% Additional information: For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. 			

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For the wording of the listed Hazard Statements refer to section 16.
4 First-aid measures
 Description of first aid measures General information: Immediately remove any clothing soiled by the product. Take affected persons out into the fresh air. After inhalation: Supply fresh air; consult doctor in case of complaints. After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. After eye contact: Remove contact lenses if worn. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. Most important symptoms and effects, both acute and delayed: Headache Dizziness Thirst Blindness Nausea Acidosis Disorientation Unconsciousness Danger of convulsion. Danger of irculatory collapse. Danger of inpaired breathing. Harmful if swallowed, in contact with skin or if inhaled. Indication of any immedical attention and special treatment needed: Contains methanol / methyl alcohol. Consult literature for specific antidotes. May produce a narcotic effect. Medical supervision for at least 48 hours. Monitor circulation, possible shock treatment.

5 Fire-fighting measures

\cdot Extinguishing media

- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. For safety reasons unsuitable extinguishing agents: None.
- Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.

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rade name: Sterno Ethanol Green 45 min	
 Advice for firefighters Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit. Additional information: Eliminate all ignition sources if safe to do so. Cool endangered receptacles with water spray. Use large quantities of foam as it is partially destroyed by the product. 	
6 Accidental release measures	
• Personal precautions, protective equipment and emergency procedures Use respiratory protective device against the effects of fumes/dust/aerosol. Keep away from ignition sources. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.	
 Environmental precautions: Do not allow to enter sewers/ surface or ground water in the second state of the secon	
7 Handling and storage	
 Handling Precautions for safe handling: Store in cool, dry place in tightly closed receptacles. Use only in well ventilated areas. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect from heat. Protect against electrostatic charges. 	
 Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Store in a cool location. Information about storage in one common storage facility: Store away from oxidi Further information about storage conditions: 	zing agents.



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Control parar	neters	
-	rith limit values that require monitoring at the workplace:	
64-17-5 ethano		
PEL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm	
REL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm	
TLV (USA)	Short-term value: 1880 mg/m ³ , 1000 ppm	
EL (Canada)	Short-term value: 1000 ppm	
EV (Canada)	Long-term value: 1.900 mg/m ³ , 1.000 ppm	
LMPE (Mexico)	Long-term value: 1000 ppm A3	
67-56-1 methar	nol	
PEL (USA)	Long-term value: 260 mg/m ³ , 200 ppm	
REL (USA)	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin	
TLV (USA)	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI	
EL (Canada)	Short-term value: 250 ppm Long-term value: 200 ppm Skin	
EV (Canada)	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin	
LMPE (Mexico)	Short-term value: 250 ppm Long-term value: 200 ppm PIEL, IBE	
Ingredients wit	h biological limit values:	
67-56-1 methar	nol	
BEI (USA) 15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)		
General protect The usual preca Do not inhale ga Avoid contact w Immediately ren Keep away from	ntrols ctive equipment: tive and hygienic measures: nutionary measures for handling chemicals should be followed. ases / fumes / aerosols. ith the eyes and skin. nove all soiled and contaminated clothing. i foodstuffs, beverages and feed. fore breaks and at the end of work.	



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 Breathing equipment: 	o relevant information available. otective device in case of insufficient ventilation. action may be advisable.	
Protective gloves		
The glove material has to • Eye protection:	be impermeable and resistant to the product/ the substance/ the preparation.	
Safety glasses		
 Body protection: Protection may be required Not required under normal Limitation and superv No relevant information av See Section 7 for additional No relevant information av 	l conditions of use. ision of exposure into the environment railable. asures al information.	
9 Physical and chemic	al properties	
· Information on basic p · Appearance:	ohysical and chemical properties	
Form:	Highly viscous	
Color:	Pink or Green	

Color
Odor:

Color: · Odor: · Odor threshold:	Pink or Green Alcohol-like Not determined.
 pH-value at 20 °C (68 °F): Melting point/Melting range: Boiling point/Boiling range: 	8.0 ± 0.5 Not determined. 76 °C (169 °F)
· Flash point:	27°C (80.6°F)
· Flammability (solid, gaseous):	Highly flammable.
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
· Explosion limits	
Lower:	3.5 Vol %
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Upper:	15.0 Vol %	
Vapor pressure at 20 °C (68 °F):	59 hPa (44 mm Hg)	
Density at 20 °C (68 °F):	0.8 g/cm ³ (6.676 lbs/gal)	
Relative density:	Not determined.	
Vapor density:	Not applicable.	
Evaporation rate:	Not applicable.	
Solubility in / Miscibility with		
Water:	Soluble.	
Partition coefficient (n-octanol/water): Not determined.		
Viscosity		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Other information	No relevant information available.	

10 Stability and reactivity

- · Reactivity: No relevant information available.
- · Chemical stability:
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Possibility of hazardous reactions:

Can react violently with oxygen rich (oxidizing) material. Danger of Explosion.

Used empty containers may contain product gases which form explosive mixtures with air.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.

Develops readily flammable gases / fumes.

Develops toxic gases / fumes.

Toxic fumes may be released if heated above the decomposition point.

· Conditions to avoid:

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents.

Keep away from heat and direct sunlight.

· Incompatible materials: No relevant information available.

• Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

64-17-5 ethanol

Oral LD50 7060 mg/kg (rat)

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	e: Sterno Ethanol Green 45 min		
Inholotin/	2 L CEO/4 h 20000 m c/l (rot)		
	e LC50/4 h 20000 mg/l (rat)		
	methanol		
Oral	LD50 5628 mg/kg (rat)		
Dermal	LD50 15800 mg/kg (rabbit)		
	irritant effect:		
	skin: No irritant effect.		
	eye: Irritating effect.		
	ation: No sensitizing effects known.		
	te to chronic toxicity: May cause damage to the central nervous system and optic nerve.		
 Carcinog 	genic categories		
· IARC (In	ternational Agency for Research on Cancer):		
64-17-5	ethanol		
· NTP (Na	tional Toxicology Program):		
None of t	the ingredients are listed.		
· OSHA-C	a (Occupational Safety & Health Administration):		
	the ingredients are listed.		
	e route(s) of exposure:		
Ingestion			
Inhalatior			
Eye conta	act.		
Skin cont			
	fects (acute toxicity, irritation and corrosivity):		
Irritating			
	if swallowed, in contact with skin or if inhaled.		
	d dose toxicity: se damage to organs through prolonged or repeated exposure.		
	risk of irreversible effects.		
	d exposure may cause skin dryness or cracking.		
· CMR eff	ects (carcinogenity, mutagenicity and toxicity for reproduction)		
	Il mutagenicity: Based on available data, the classification criteria are not met.		
· Carcinog	• Carcinogenicity: Based on available data, the classification criteria are not met.		
	• Reproductive toxicity: Based on available data, the classification criteria are not met.		
· STOT-si	ngle exposure: May cause damage to the central nervous system and optic nerve.		
· STOT-re	peated exposure: Based on available data, the classification criteria are not met.		
	on hazard: Based on available data, the classification criteria are not met.		

- · Toxicity
- Aquatic toxicity No relevant information available.
- · Persistence and degradability Biodegradable.
- · Bioaccumulative potential: Does not accumulate in organisms
- Mobility in soil: No relevant information available.

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· Additional ecological information

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

This statement was deduced from the properties of the single components.

Due to available data on eliminability/decomposition and bioaccumulation potential, a prolonged damage of the environment is unlikely.

· Other adverse effects: No relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Smaller quantities can be disposed of with household waste.

Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- · Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN1987
· UN proper shipping name	
Limited Quantity for packages (0.3 gal).	s less than 30 kg (66 lb) and inner packagings less than 1 L
· DOT	Alcohols, n.o.s. (Ethanol)
· ADR · IMDG, IATA	1987 ALCOHOLS, N.O.S. (ETHANOL) ALCOHOLS, N.O.S. (ETHANOL)
· Transport hazard class(es)	
· DOT	
COMME EDU	
· Class	3 Flammable liquids
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ade name. Sterno Ethanol Green 45 mm	
· Label	3
· ADR	
*	
Class	3 (F1) Flammable liquids
· Label	3
· IMDG, IATA	
Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, ADR, IMDG, IATA	III
 Environmental hazards Marine pollutant: 	Νο
Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	33
· EMS Number:	F-E,S-D
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	x II of Not applicable.
- Degulatory information	
5 Regulatory information	
mixture • United States (USA) • SARA	egulations/legislation specific for the substance
Section 302 (extremely hazardous substa	ances):
None of the ingredients are listed.	
Section 304 (emergency release notificat	ion):
None of the ingredients are listed.	
Sections 311/312 (hazardous chemical the section of the secti	reshold planning quantity in pounds):
None of the ingredients are listed.	
\cdot Section 355 (extremely hazardous subst	ances):
None of the ingredients are listed.	
 Section 313 (Specific toxic chemical listi 	ngs):
None of the ingredients are listed.	



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· TSCA (Toxic Substances Control Act)	
All ingredients are listed.	
· Proposition 65 (California)	
· Chemicals known to cause cancer:	
64-17-5 ethanol	
Chemicals known to cause reproductive toxicity: Substance is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients are listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients are listed.	
 Chemicals known to cause developmental toxicity: Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for presented on the second second	product.
64-17-5 ethanol	
· Carcinogenic categories	
· EPA (Environmental Protection Agency):	
None of the ingredients are listed.	
· IARC (International Agency for Research on Cancer):	
64-17-5 ethanol	
· NIOSH-Ca (National Institute for Occupational Safety and Health):	
None of the ingredients are listed.	

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of preparation / last revision 05/02/2016 / -

· Abbreviations and acronyms: ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Liq. 2: Flammable liquids, Hazard Category 2 Acute Tox. 3: Acute toxicity, Hazard Category 3 Acute Tox. 4: Acute toxicity, Hazard Category 4 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

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Trade name: Sterno Ethanol Green 45 min Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1 STOT SE 2: Specific target organ toxicity - Single exposure, Hazard Category 2 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers