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Version Number 1.0 Revision Date 07/14/2014

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Page 1 of 15 Print Date 07/15/2014

SAFETY DATA SHEET

TREOH 197234

Section 1. Identificatio	n	
GHS product identifier	:	TREOH 197234
Chemical name	:	Mixture
CAS number	:	Mixture
Other means of identification	:	CC10197234
Product type	:	liquid
		-
Relevant identified uses of the subst	ance	or mixture and uses advised against
Product use	:	Industrial applications. Plastics.
Supplier's details	:	POLYONE CORPORATION
		33587 Walker Road, Avon Lake, OH 44012
		1 (440) 930-1000 or 1 (866) POLYONE

Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.
Hazard statements	:	No known significant effects or critical hazards.



Version Number 1.0 Revision Date 07/14/2014 Page 2 of 15 Print Date 07/15/2014

Precautionary statements

General	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.

Section 3. Composition/information on ingredients

:

Substance/mixture	:	Substance
Chemical name	:	Mixture
Other means of identification	:	CC10197234

CAS number/other identifiers

CAS number

Mixture

Ingredient name	%	CAS number
Ethyl alcohol	100	64-17-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.



Version Number 1.0	Page 3 of 15
Revision Date 07/14/2014	Print Date 07/15/2014

Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.
Indication of immediate medical a	ttentio	on and special treatment needed, if necessary
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or witho suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO_2 . None known.
Specific hazards arising from the chemical	:	In a fire or if heated, a pressure increase will occur and the container may burst.

POLYONE CORPORATION



SAFETY DATA SHEET TREOH 197234

Version Number 1.0 Revision Date 07/14/2014 Page 4 of 15 Print Date 07/15/2014

Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through	
For emergency responders	:	spilled material. Put on appropriate personal protective equipment. If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
Methods and materials for containment and cleaning up			
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.	
Large spill	:	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.	



Version Number 1.0 Revision Date 07/14/2014 Page 5 of 15 Print Date 07/15/2014

Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Ethyl alcohol	OSHA PEL 1989 (1989-03-01)
	PEL: Permissible Exposure Level 1,900 mg/m3 1,000 ppm
	OSHA PEL (1993-06-30)
	PEL: Permissible Exposure Level 1,900 mg/m3 1,000 ppm
	NIOSH REL (1994-06-01)
	Time Weighted Average (TWA) 1,900 mg/m3 1,000 ppm
	ACGIH TLV (2008-11-24)
	TLV-STEL: Threshold Limit Value - Short Time Exposure Level
	1,000 ppm
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	
Environmental exposure controls	checked to ensure they comply with the requirements of
	environmental protection legislation. In some cases, fume scrubbers,
	filters or engineering modifications to the process equipment will be
	5/15

POLYONE CORPORATION

SAFETY DATA SHEET TREOH 197234

Version Number 1.0 Revision Date 07/14/2014



Page 6 of 15 Print Date 07/15/2014

		necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state	:	liquid [liquid]
Color	:	NO PIGMENT
Odor	:	Not available.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	Not available.
Boiling point	:	Not available.



Version Number	er 1.0
Revision Date	07/14/2014

Page 7 of 15 Print Date 07/15/2014

Flash point	:	Not available.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: Not available.
(flammable) limits		Upper: Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	Not available.
Solubility	:	Not available.
Solubility in water	:	Not available.
Partition coefficient: n-	:	Not available.
octanol/water		
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic: Not available.
-		Kinematic: Not available.

Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Information on toxicological effects

Acute toxicity



Version Number 1.0 Revision Date 07/14/2014 Page 8 of 15 Print Date 07/15/2014

Product/ingredient name	Result	Species	Dose	Exposure
Ethyl alcohol				
	LD50 Oral	Rat	15,010 mg/kg	-
	LD50 Oral	Rat	7,000 mg/kg	-
	LD50 Oral	Rat	7,060 mg/kg	-
	LC50 Inhalation	Rat	20000 ppm	10 h
	LC50 Inhalation	Rat	6 mg/l	6 h
	LC50 Inhalation	Rat	125 mg/l	4 h

Conclusion/Summary

Mixture.Not fully tested.

:

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ethyl alcohol	Eyes -	Rabbit			-
	Moderate				
	irritant				
	Skin - Mild	Rabbit			-
	irritant				
	Skin -	Rabbit		24 hrs	-
	Moderate				
	irritant				
	Eyes - Severe	Rabbit			-
	irritant				
	Eyes - Mild	Rabbit		24 hrs	-
	irritant				
	Eyes -	Rabbit		0.001 hrs	-
	Moderate				
	irritant				

Conclusion/Summary		
Skin	:	Mixture.Not fully tested.
Eyes	:	Mixture.Not fully tested.
Respiratory	:	Mixture.Not fully tested.
Sensitization		
Conclusion/Summary		
Skin	:	Mixture.Not fully tested.
Respiratory	:	Mixture.Not fully tested.
Mutagenicity		
Conclusion/Summary	:	Mixture.Not fully tested.

Carcinogenicity

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Version Number 1.0 Revision Date 07/14/2014 Page 9 of 15 Print Date 07/15/2014

Conclusion/Summary <u>Classification</u>	:	Mixture.No	t fully tested.	
Product/ingredient name	OSHA		IARC	NTP
Ethyl alcohol			1	
<u>Reproductive toxicity</u> Conclusion/Summary	:	Mixture.No	t fully tested.	
Teratogenicity				
Conclusion/Summary	:	Mixture.No	t fully tested.	
Specific target organ toxicity Not available.	y (single exp	oosure)		
Specific target organ toxicity Not available.	(repeated)	<u>exposure)</u>		
Aspiration hazard Not available.				
Information on the likely rou exposure	ites of :	Not availab	le.	
Potential acute health effects				
Eye contact	:	No known s	significant effects of	r critical hazards.
Inhalation	:		significant effects of	
Skin contact	:		significant effects of	
Ingestion	:	No known s	significant effects of	r critical hazards.
Symptoms related to the phy	<u>sical, chemi</u>	cal and toxic	ological character	istics
Eye contact	:	No specific	data.	
Inhalation	:	No specific		
Skin contact		No specific		
Ingestion	:	No specific		
Delayed and immediate effec	ts and also	chronic effec	ts from short and	long term exposure
Short term exposure				
Potential immediate effects	:	Not availab	le.	
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POLYONE CORPORATION



SAFETY DATA SHEET TREOH 197234

Version Number 1.0 Revision Date 07/14/2014

Page 10 of 15 Print Date 07/15/2014

Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effects		
Conclusion/Summary	:	Mixture.Not fully tested.
General	:	No known significant effects or critical hazards.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

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Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Ethyl alcohol			
	Acute LC50 13,480,000 µg/l Fresh water	Fish - Fathead minnow	96 h
	Acute LC50 42,000 µg/l Fresh water	Fish - Rainbow trout,donaldson trout	96 h
	Acute LC50 100 mg/l Fresh water	Fish - Fathead minnow	96 h
	Acute LC50 11,000,000 µg/l Marine water	Fish - Bleak	96 h
	Acute LC50 12,720 mg/l Fresh water	Fish - Fathead minnow	96 h
	Acute LC50 5,680 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 2,000 µg/l Fresh water	Aquatic invertebrates.	48 h



Version Number 1.0 Revision Date 07/14/2014

	Water flea	
Acute LC50 9,248,000 µg/l Fresh	Aquatic invertebrates.	48 h
water	Water flea	
Acute LC50 9,268,000 µg/l Fresh	Aquatic invertebrates.	48 h
water	Water flea	
Acute EC50 100 mg/l Fresh water	Aquatic invertebrates.	48 h
	Water flea	
Acute EC50 20,000 mg/l Fresh	Aquatic plants - Green	96 h
water	Flagellate	
Acute EC50 17.921 mg/l Marine	Aquatic plants - Green	96 h
water	algae	
Acute EC50 10,000 mg/l Fresh	Aquatic plants - Algae	96 h
water		
Acute EC50 10,000 mg/l Fresh	Aquatic plants - Diatom	96 h
water		
Acute EC50 10,000 mg/l Fresh	Aquatic plants - Diatom	96 h
water		
Chronic NOEC 0.375 mg/l Fresh	Fish - Eastern	84 d
water	mosquitofish	

Conclusion/Summary

: Not available.

Persistence and degradability

Conclusion/Summary

Not available.

:

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Ethyl alcohol	-0.35	-	low

Mobility in soil		
Soil/water partition coefficient (KOC)	:	Not available.
Other adverse effects	:	No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable



Version Number 1.0 Revision Date 07/14/2014 Page 12 of 15 Print Date 07/15/2014

products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

Section 14. Transport information

U.S. DOT Classification	
Proper Shipping Name:	Methanol
Technical Name:	
Hazard Class / Division	3
UN Number	UN1230
Packing Group	II
Label Required	3, 6.1
ICAO/IATA	Consult mode specific transport rules
IMO/IMDG (maritime)	Consult mode specific transport rules
Special precautions for user	: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.'

Section 15. Regulatory information

U.S. Federal regulations	 United States - TSCA 12(b) - Chemical export notification: None of the components are listed. United States - TSCA 4(a) - Final Test Rules: Not listed United States - TSCA 4(a) - ITC Priority list: Not listed United States - TSCA 4(a) - Proposed test rules: Not listed United States - TSCA 4(f) - Priority risk review: Not listed United States - TSCA 5(a)2 - Proposed significant new use rules:
	12/15



Version Number	er 1.0
Revision Date	07/14/2014

Page 13 of 15 Print Date 07/15/2014

		Not listed United States - TSCA 5(e) - Substances consent order: Not listed United States - TSCA 6 - Final risk management: Not listed United States - TSCA 6 - Proposed risk management: Not listed United States - TSCA 8(a) - Chemical risk rules: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not determined United States - TSCA 8(a) - Preliminary assessment report (PAIR): Not listed United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed United States - TSCA 8(d) - Health and safety studies: Not listed United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Not listed United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed United States - Department of commerce - Precursor chemical: Not listed
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential Chemicals)	:	Not listed
US. EPA CERCLA Hazardous Substances (40 CFR 302)		
not applicable SARA 311/312		
Classification	:	Not applicable.
Composition/information on ingredi	ents	

Composition/information on ingredients

Name	%	Classification
	10/15	



Version Number 1.0 Revision Date 07/14/2014

Page 14 of 15 Print Date 07/15/2014

Ethyl alcohol	100	F
<u>SARA 313</u> Not applicable.		
State regulations Massachusetts	: The following components are lis Ethyl alcohol	ted:
New York	: None of the components are listed	1.
New Jersey	: The following components are lis Ethyl alcohol	ted:
Pennsylvania	: The following components are lis Ethyl alcohol	ted:

California Prop. 65

This PolyOne product does not contain any chemical known to the State of California to cause cancer, or birth defects or other reproductive harm, in concentrations that require a warning notice under California's Proposition 65. This statement relies in part on information provided by the buyer of this PolyOne product. PolyOne does not control or have complete knowledge of the end uses to which that buyer or any other entity in the chain of distribution and marketing may put this PolyOne product. Therefore, the buyer of this PolyOne product, each entity that uses this PolyOne product in formulating another product, and each entity in the chain of distribution and marketing of any product that includes the material in this PolyOne product must make its own decision as to giving a Proposition 65 warning. United States inventory (TSCA 8b) : All components are listed or exempted.

Canada inventory	:	All components are listed or exempted.
International regulations		
International lists	:	 Australia inventory (AICS): All components are listed or exempted. Taiwan inventory (CSNN): Not determined. Malaysia Inventory (EHS Register): All components are listed or exempted. EINECS: All components are listed or exempted. Japan inventory: All components are listed or exempted. China inventory (IECSC): All components are listed or exempted. Korea inventory: All components are listed or exempted. New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted. Philippines inventory (PICCS): All components are listed or exempted.
Chemical Weapons Convention List Schedule I Chemicals Chemical Weapons Convention	:	Not listed Not listed

Version Number 1.0 Revision Date 07/14/2014

Page 15 of 15 Print Date 07/15/2014

List Schedule II Chemicals Chemical Weapons Convention List Schedule III Chemicals

Not listed

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Section 16. Other information

<u>History</u>		
Date of printing	:	07/15/2014
Date of issue/Date of revision	:	07/14/2014
Date of previous issue	:	00/00/0000
Version	:	1.0
Key to abbreviations	:	ATE = Acute Toxicity Estimate
•		BCF = Bioconcentration Factor
		GHS = Globally Harmonized System of Classification and Labelling of
		Chemicals
		IATA = International Air Transport Association
		IBC = Intermediate Bulk Container
		IMDG = International Maritime Dangerous Goods
		LogPow = logarithm of the octanol/water partition coefficient
		MARPOL $73/78$ = International Convention for the Prevention of Pollution
		From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine
		pollution)
		UN = United Nations
References	:	Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.