

SAFETY DATA SHEET

Be Right[™]

Issue Date 16-Aug-2018 Revision Date 17-Aug-2018 Version 3.1 Page 1/15 **1. IDENTIFICATION** Product identifier **Product Name** Organic Acid Sample Vial Other means of identification TNT872SV Product Code(s) M00261 Safety data sheet number Recommended use of the chemical and restrictions on use **Recommended Use** Laboratory Use. Water Analysis. Uses advised against Consumer use. **Restrictions on use** None. Details of the supplier of the safety data sheet

Manufacturer Address

Hach Company P.O.Box 389 Loveland, CO 80539 USA +1(970) 669-3050

Emergency telephone number

+1(303) 623-5716 - 24 Hour Service +1(515)232-2533 - 8am - 4pm CST

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Category 1

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Signal word - Danger



Hazard statements

- H302 Harmful if swallowed
- H319 Causes serious eye irritation
- H370 Causes damage to organs
- H372 Causes damage to organs through prolonged or repeated exposure

Precautionary statements

P270 - Do not eat, drink or smoke when using this product
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P330 - Rinse mouth
P501 - Dispose of contents/ container to an approved waste disposal plant
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor
P405 - Store locked up
P314 - Get medical advice/attention if you feel unwell

Other Hazards Known

Causes mild skin irritation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical	Name
Chemical	Family
Formula	
CAS No	
Chemical	nature

Ethylene Glycol Alcohols. C₂H₆O₂ 107-21-1 Organic Compound.

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No.	Percent Range	HMRIC #
Ethylene glycol	107-21-1	100%	-

4. FIRST AID MEASURES

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing.
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Most important symptoms and effects, both acute and delayed			
Symptoms	Burning sensation.		
Indication of any immediate medica	I attention and special treatment needed		
Note to physicians	Treat symptomatically.		
	5. FIRE-FIGHTING MEASURES		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Unsuitable Extinguishing Media	Caution: Use of water spray when fighting fire may be inefficient.		
Specific hazards arising from the chemical	No information available.		
Hazardous combustion products	Carbon monoxide, Carbon dioxide.		
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.		
	6. ACCIDENTAL RELEASE MEASURES		
U.S. Notice	Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and		
	guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.		
Personal precautions, protective ec	uipment and emergency procedures		
Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.		
Other Information	Refer to protective measures listed in Sections 7 and 8.		
Environmental precautions			
Environmental precautions	See Section 12 for additional ecological information.		
Methods and material for containme	ent and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Pick up and transfer to properly labeled containers.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
Reference to other sections	See section 8 for more information. See section 13 for more information.		

7. HANDLING AND STORAGE

Precautions for safe handling

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Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.
Conditions for safe storage, includ	ing any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.
Flammability class	Class IIIB

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene glycol	STEL: 50 ppm	(vacated) Ceiling: 50 ppm	NDF
CAS#: 107-21-1	STEL: 10 mg/m ³ TWA: 25 ppm	(vacated) Ceiling: 125 mg/m ³	

Appropriate engineering controls

Engineering Controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, sue Respiratory protection	ch as personal protective equipment
Hand Protection	Wear suitable gloves.
Eye/face protection	If splashes are likely to occur, wear safety glasses with side-shields.
Skin and body protection	Wear suitable protective clothing.
General Hygiene Considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.
Thermal hazards	None under normal processing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state		Liquid					
Appearance	viscous			Color	colorless		
Odor	sweet			Odor threshold	0.1 ppm		
Property_			Values_			Remarks • Method	
Molecular weigh	nt		62.07 g/mole				
рН			6				
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Melting point/freezing point	-12.78 °C / 9 °F	
Boiling point / boiling range	197.22 °C / 387 °F	
Evaporation rate	0.01 (BuAc = 1)	
Vapor pressure	0.075 mm Hg / 0.01 kPa at 20 °C / 68 °F	
Vapor density (air = 1)	2.14	
Specific gravity (water = 1 / air = 1)	1.11	
Partition Coefficient (n-octanol/water)	log K _{ow} = -1.36	OECD Test No. 107: Partition Coefficient (n-octanol/water): Shake Flask Method
Soil Organic Carbon-Water Partition Coefficient	log K _{oc} = -0.65	Estimation through KOCWIN v2.00 part of the Estimation Programs Interface (EPI) Suite™
Autoignition temperature	397.78 °C / 748 °F	
Decomposition temperature	No data available	
Dynamic viscosity	21 cP (mPa s) at 20 °C / 68 °F	
Kinematic viscosity	18.919 cSt (mm²/s) at 20 °C / 68 °F	
Solubility(ies)		

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Completely soluble	1000000 mg/L	20 °C / 68 °F

Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature
Acetic acid	Soluble	> 1000 mg/L	25 °C / 77 °F
Acetone	Soluble	> 1000 mg/L	25 °C / 77 °F
Aldehydes	Soluble	> 1000 mg/L	25 °C / 77 °F
Glycerol	Soluble	> 1000 mg/L	25 °C / 77 °F
Ketones	Soluble	> 1000 mg/L	25 °C / 77 °F

Other Information

Metal Corrosivity

Steel Corrosion Rate Aluminum Corrosion Rate Not applicable / Not applicable /

Volatile Organic Compounds (VOC) Content

This Product is by Weight 100% an Individual Pure Chemical Substance See ingredients information below

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Ethylene glycol	107-21-1	No data available	Х

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Explosive properties		
Upper explosion limit Lower explosion limit		15.3% 3.2%
Flammable properties		
Flash point Method		115 °C / 239 °F CC (closed cup)
Flammability Limit in Air Upper flammability limit Lower flammability limit		No data available No data available
Oxidizing properties		No data available.
Bulk density		No data available
Particle Size	No information available	
Particle Size Distribution	No information available	
		AND REACTIVITY
	IV. STADILITT	
<u>Reactivity</u> Not applicable.		
<u>Chemical stability</u> Stability	Stable under normal con	ditions.
Explosion data Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t None None.	
Possibility of Hazardous Reactions Possibility of Hazardous Reactions		essing.

<u>Hazardous polymerization</u> Hazardous polymerization does not occur.

Conditions to avoid Conditions to avoid

None known based on information supplied.

Incompatible materials Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

Hazardous Decomposition Products Carbon monoxide. Carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure Product Information

Inhalation	May cause irritation of respiratory tract.
Eye contact	Causes serious eye irritation. May cause redness, itching, and pain.
Skin contact	May cause irritation. Prolonged contact may cause redness and irritation.

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Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed.
Symptoms	May cause redness and tearing of the eyes.
Aggravated Medical Conditions Toxicologically synergistic products	Skin disorders. Eye disorders. Preexisting eye disorders. Respiratory disorders. None known.

distribution

Toxicokinetics, metabolism and This Product is by Weight 100% an Individual Pure Chemical Substance. See ingredients information below.

If available, see ingredient data below

If available, see ingredient data below

If available, see ingredient data below If available, see ingredient data below

If available, see ingredient data below

This Product is by Weight 100% an Individual Pure Chemical

Chemical name	Toxicokinetics, metabolism and distribution
	Ethylene glycol is quickly absorbed through the GI tract, may be absorbed through respiratory tract. It is metabolised by alcohol dehydrogenase. Its by-products are eliminated from the body by CO2 and urine.

Product Acute Toxicity Data

Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity.

Acute Toxicity Estimations (ATE)

Not applicable

Substance

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	No information available
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

Ingredient Acute Toxicity Data

Oral Exposure Route	•			If available, see data below		
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and	
	type	dose	time		sources for data	
Ethylene glycol	Rat LD ₅₀	1700 mg/kg	None	None reported	GESTIS (Information System	
(100%)			reported		on Hazardous Substances of	
CAS#: 107-21-1					the German Social Accident	
					Insurance)	
Dermal Exposure Ro	ute			If available, see data below		
Inhalation (Dust/Mist) Exposure Route				If available, see data below		
Inhalation (Vapor) Exposure Route				If available, see data below		
Inhalation (Gas) Exposure Route				If available, see data below		
Product Specific Tar	get Organ To:	<u>xicity Single E</u>	xposure Data	<u>l</u>		
Oral Exposure Route	•			If available, see ingredient data	below	
Dermal Exposure Ro	ute			If available, see ingredient data	below	

Oral Exposure Route	If available, see ingredient data below
Dermal Exposure Route	If available, see ingredient data below
Inhalation (Dust/Mist) Exposure Route	If available, see ingredient data below
Inhalation (Vapor) Exposure Route	If available, see ingredient data below
Inhalation (Gas) Exposure Route	If available, see ingredient data below

Ingredient Specific Target Organ Toxicity Single Exposure Data

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Oral Exposure Route)			If available, see data below	
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ethylene glycol (100%) CAS#: 107-21-1	Human	1000 mg/kg	None reported	Death	ECHA (The European Chemicals Agency)
Dermal Exposure Ro Inhalation (Dust/Mist Inhalation (Vapor) Ex Inhalation (Gas) Exp) Exposure R posure Route			If available, see data below If available, see data below If available, see data below If available, see data below	
Aspiration toxicity If available, see data b Kinematic viscosity	pelow			18.919 cSt (mm²/s)	

Product Skin Corrosion/Irritation Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

Ingredient Skin Corrosion/Irritation Data

If available, see data below

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Ethylene glycol (100%) CAS#: 107-21-1	Open Irritation Test	Rabbit	555 mg	None reported	Mild skin irritant	RTECS (Registry of Toxic Effects of Chemical Substances)

Product Serious Eye Damage/Eye Irritation Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

Ingredient Eye Damage/Eye Irritation Data

If available, see data below

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Ethylene glycol	Standard Draize	Rabbit	100000 ppm	None	Eye irritant	RTECS (Registry of
(100%)	Test			reported		Toxic Effects of
CAS#: 107-21-1						Chemical Substances)

Sensitization Information

Product Sensitization Data

Skin Sensitization Exposure Route

Respiratory Sensitization Exposure Route

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below. This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

Ingredient Sensitization Data Skin Sensitization Exposure Route

If available, see data below	- H	availab	le, see	data	below
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Skin Sensitization Ex	posure Roule		II available, see data below.	
Chemical name Test method		Species	Results	Key literature references and
				sources for data
Ethylene glycol (100%) CAS#: 107-21-1	Based on human experience	Human	Not confirmed to be a skin sensitizer	IUCLID (The International Uniform Chemical Information Database)

Respiratory Sensitization Exposure Route

If available, see data below.

Chronic Toxicity Information

Product Specific Target Organ Toxicity Repeat Dose Data Oral Exposure Route Dermal Exposure Route

If available, see ingredient data below. If available, see ingredient data below.

Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

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If available, see ingredient data below. If available, see ingredient data below. If available, see ingredient data below.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data If available see data below Oral Exposure Pouto

Oral Exposure Route	3			Il avallable, see data below	
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ethylene glycol (100%) CAS#: 107-21-1	Human TD∟₀	768 mg/kg	None reported	Gastrointestinal Diarrhea Brain and Coverings Convulsions or effect on seizure threshold Coma	RTECS (Registry of Toxic Effects of Chemical Substances)
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Ethylene glycol (100%) CAS#: 107-21-1	Human TDLo	1195 mg/kg	None reported	Peripheral Nerve and Sensation Renal function tests depressed	RTECS (Registry of Toxic Effects of Chemical Substances)
Dermal Exposure Ro Inhalation (Dust/Mist		oute		If available, see data below If available, see data below	

Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Product Carcinogenicity Data **Oral Exposure Route Dermal Exposure Route** Inhalation (Dust/Mist) Exposure Route

Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

If available, see ingredient data below If available, see ingredient data below

If available, see data below

If available, see data below

Ingredient Carcinogenicity Data

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Ethylene glycol	107-21-1	-	-	-	-

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of	Does not apply
Labor)	

Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

If available, see data below If available, see data below

Product Germ Cell Mutagenicity invitro Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

Ingredient Germ Cell Mutagenicity invitro Data If available see data below

li avaliable, see uala L										
Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data				
Ethylene glycol (100%) CAS#: 107-21-1	DNA inhibition	Human Iymphocyte	320 mmol/L	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of Chemical				

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						Substances)
Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Ethylene glycol (100%) CAS#: 107-21-1	Mutation in mammalian somatic cells	Mouse lymphocyte	100 mmol/L	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of Chemical Substances)

Product Germ Cell Mutagenicity invivo Data **Oral Exposure Route Dermal Exposure Route** Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Éxposure Route

If available, see ingredient data below If available, see ingredient data below

Ingredient Germ Cell Mutagenicity invivo Data

Oral Exposure Route			lf available	, see data bel	ow	
Chemical name	Test	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Ethylene glycol (100%) CAS#: 107-21-1	Cytogenetic analysis	Rat	1200 mg/kg	None reported	Positive test result for mutagenicity	
Dermal Exposure Ro Inhalation (Dust/Mist) Inhalation (Vapor) Ex Inhalation (Gas) Expo	If available, see data below If available, see data below If available, see data below If available, see data below If available, see data below					
Product Reproductive Oral Exposure Route Dermal Exposure Rou Inhalation (Dust/Mist) Inhalation (Vapor) Ex Inhalation (Gas) Expo	ute) Exposure Route posure Route		lf available If available If available	e, see ingredie e, see ingredie e, see ingredie e, see ingredie e, see ingredie e, see ingredie	nt data below nt data below nt data below	

Inhalation (Gas) Exposure Route

Ingredient Reproductive Toxicity Data

Ingredient Reproduc					
Oral Exposure Route	•			If available, see data below	
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Ethylene glycol (100%) CAS#: 107-21-1	Mouse TD⊾₀	1700 mg/kg	None reported	Effects on Newborn Growth statistics (e.g. % reduced weight gain) Specific Developmental Abnormalities Hepatobiliary system	RTECS (Registry of Toxic Effects of Chemical Substances)
				Musculoskeletal system	
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Ethylene glycol (100%) CAS#: 107-21-1	Mouse TD⊾₀	850 mg/kg	None reported	Effects on Newborn Growth statistics (e.g. % reduced weight gain) Specific Developmental Abnormalities Urogenital System	RTECS (Registry of Toxic Effects of Chemical Substances)
Dermal Exposure Ro	ute			If available, see data below	
Inhalation (Dust/Mist) Exposure R	oute		If available, see data below	
Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and

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	type	dose	time		sources for data
Ethylene glycol	Mouse	1 mg/L	6 hours	Effects on Embryo or Fetus	RTECS (Registry of Toxic
(100%)	TCLO			Fetotoxicity (except death e.g.	Effects of Chemical
CAS#: 107-21-1				stunted fetus) Effects on	Substances)
				Fertility Post-implantation	
				mortality (e.g. dead and/or	
				resorbed implants per total	
				number of implants)	
Inhalation (Vapor) Ex	posure Route	9		If available, see data below	
Inhalation (Gas) Exp	nhalation (Gas) Exposure Route			If available, see data below	

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product Ecological Data

Aquatic toxicity

Fish Crustacea Algae

Ingredient Ecological Data

Aquatic toxicity

Fish Crustacea Algae

Other Information

Persistence and degradability

Product Biodegradability Data

This Product is by Weight 100% an Individual Pure Chemical Substance.

Ingredient Biodegradability Data

Chemical name	Test method	Biodegradation	Exposure time	Results
Ethylene glycol (100%) CAS#: 107-21-1	OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D)	96%	28 days	Readily biodegradable

Bioaccumulation

Product Bioaccumulation Data

This Product is by Weight 100% an Individual Pure Chemical Substance.

Partition Coefficient (n-octanol/water)

 $\log K_{ow} = -1.36$

Ingredient Bioaccumulation Data

Chemical name	Test method	Exposure time	Species	Bioconcentrat ion factor (BCF)	Results
Ethylene glycol	None reported	3 days	None reported	BCF = 10	Does not

EN / AGHS

Substance

This Product is by Weight 100% an Individual Pure Chemical

If available, see ingredient data below If available, see ingredient data below If available, see ingredient data below

If available, see ingredient data below No data available

If available, see ingredient data below

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	(100%) CAS#: 107-21-1			have the potential to bioaccumula
L				te

Mobility

Soil Organic Carbon-Water Partition Coefficient $\log K_{oc} = -0.65$

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Completely soluble	1000000 mg/L	20 °C / 68 °F

Other adverse effects

Endocrine-disrupting potential.

13. DISPOSAL CONSIDERATIONS			
Waste treatment methods			
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.		
Contaminated packaging	Do not reuse empty containers.		
US EPA Waste Number	Not applicable		
Special instructions for disposal	Eliminate all sources of ignition. Do not breathe the fumes. Dilute to 3 to 5 times the volume with cold water. Check with local municipal and state authorities and waste contractors for pertinent local information regarding the proper disposal of chemicals.		
	14. TRANSPORT INFORMATION		
U.S. DOT	Not regulated		
TDG	Not regulated		
IATA	Not regulated		
IMDG_	Not regulated		
Note:	No special precautions necessary.		

Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

15. REGULATORY INFORMATION			
National Inventories			
TSCA	Complies		
DSL/NDSL Complies			

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

International Inventories	
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
TCSI	Complies
AICS	Complies
NZIoC	Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances TCSI - Taiwan Chemical Substances Inventory AICS - Australian Inventory of Chemical Substances NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Ethylene glycol (CAS #: 107-21-1)	1.0
SARA 311/312 Hazard Categories Acute health hazard	Yes
Chronic Health Hazard	Yes

Yes
No
No
No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethylene glycol	5000 lb	-	RQ 5000 lb final RQ
107-21-1			RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Ethylene glycol (CAS #: 107-21-1)	Developmental

WARNING: This product can expose you to chemicals including Ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm.

For more information, go to <u>http://www.P65Warnings.ca.gov</u>

IMERC: Not applicable

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethylene glycol	X	X	Х
107-21-1			

U.S. EPA Label Information

Chemical name	FIFRA	FDA
Ethylene glycol	180.0920	-

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Special Comments

Additional information

Global Automotive Declarable Substance List (GADSL) Not applicable

NFPA and HMIS Classifications

NFPA	Health hazards - 2	Flammability - 1	Instability - 0	Physical and Chemical Properties -
HMIS	Health hazards - 2	Flammability - 1	Physical Hazards - 0	Personal protection - X - See section 8 for more information

Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH ACGIH NDF		•		ntal Industrial Hygienists)
Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION				
TWA	TWA (time-weighted avera	age)	STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowable Conc	entration	Ceiling	Ceiling Limit Value
Х	Listed		Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are

for reference purposes only. Please note that

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> some reference state regulations of these "liberated" exposure limits in their state regulations.

SKN* RSP+ C M	Skin designation Respiratory sensitization Carcinogen mutagen	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant
Prepared By	Hach Product Compliance Department		
Issue Date	16-Aug-2018		
Revision Date	17-Aug-2018		
Revision Note	None		

Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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End of Safety Data Sheet