SAFETY DATA SHEET

CITCOOL® 33

Section 1. Identification

GHS product identifier	: CITCOOL® 33
Synonyms	: Metalworking fluid
Material uses	: Metal Working Fluids Soluble
Code	: 639333001
Supplier's details	: CITGO Petroleum Corporation P.O. Box 4689 Houston, TX 77210 sdsvend@citgo.com
Emergency telephone number (with hours of operation)	: Technical Contact: (800) 248-4684 Medical Emergency: (832) 486-4700 CHEMTREC Emergency: (800) 424-9300 (United States Only)

Section 2. Hazards identification

OSHA/HCS status	 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	 Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
Precautionary statements	
General	 Avoid contact with eyes, skin and clothing May be harmful if swallowed. IF SWALLOWED: Do NOT induce vomiting. If you feel unwell, seek medical attention and show the label when possible. Keep out of reach of children.
Prevention	: Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: Collect spillage. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. 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 attention.
Storage	 Store in a dry place and/or in closed container. Store in accordance with all local, regional, national and international regulations.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

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Section 2. Hazards identification

Hazards not otherwise : None known. classified

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Metalworking fluid
identification	

CAS number/other identifiers

CAS number

: Not applicable.

Ingredient name	%	CAS number
2,2',2"-nitrilotriethanol	≤10	102-71-6
Alkoxylated long-chain alkyl acid	≤10	Proprietary
Ethanolamine carboxylic acid salt	≤3	Proprietary
glycerol	≤3	56-81-5
propane-1,2-diol	≤3	57-55-6
1,2-benzisothiazol-3(2H)-one	<1	2634-33-5
* = Various ** = Mixture *** = Proprietary		

Any concentration shown as a range is to protect confidentiality or is due to process 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. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/ef	fec	ts, acute and delayed
Potential acute health effect	ts	
Eye contact	1	Causes serious eye irritation.

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Section 4. First aid measures

Inhalation	: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: Treat symptomatically and supportively.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

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Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
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. Approach release from upwind. 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. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: 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. See Section 10 for incompatible materials before handling or use. Bulk Storage Conditions: Maintain all storage tanks in accordance with applicable regulations. Use necessary controls to monitor tank inventories. Inspect all storage tanks on a periodic basis. Test tanks and associated piping for tightness. Maintain the automatic leak detection devices to assure proper working condition.

Section 8. Exposure controls/personal protection

Control parameters	
Occupational exposure lim	<u>its</u>
2,2',2"-nitrilotriethanol glycerol	ACGIH TLV (United States, 3/2019). TWA: 5 mg/m ³ 8 hours. OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction
propane-1,2-diol	TWA: 15 mg/m ³ 8 hours. Form: Total dust AIHA WEEL (United States). TWA: 10 mg/m ³ 8 hours. Form: Aerosol. AIHA WEEL (United States, 7/2018). TWA: 10 mg/m ³ 8 hours.
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, vapor controls, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	<u>res</u>
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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. 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 inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	: Avoid skin contact with liquid. Chemical-resistant gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Leather gloves are not protective for liquid contact.
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	: Avoid skin contact with liquid. 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. Leather boots are not protective for liquid contact.
Respiratory protection	: Avoid inhalation of gases, vapors, mists or dusts. Use a properly fitted, air-purifying or supplied-air 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

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Green.
Odor	: Mild.
рН	: 9.2
Boiling point	: Not available.
Flash point	: Open cup: >100°C (>212°F) [Product does not sustain combustion.]
Evaporation rate	: <1 (butyl acetate = 1)
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: <0.13 kPa (<1 mm Hg) [room temperature]
Vapor density	: >1 [Air = 1]
Relative density	: 1.079
Density Ibs/gal	: Estimated 9 lbs/gal
Density gm/cm ³	: Not available.
Gravity, °API	: Estimated 0 @ 60 F
Flow time (ISO 2431)	: Not available.
Viscosity	: Kinematic (40°C (104°F)): 0.047 cm ² /s (4.7 cSt)
Viscosity SUS	: Estimated 22 SUS @104 F

Section 10. Stability and reactivity

Reactivity	: Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,2',2"-nitrilotriethanol	LD50 Oral	Rat	7.39 g/kg	-
glycerol	LD50 Oral	Rat	12600 mg/kg	-
propane-1,2-diol	LD50 Dermal	Rabbit	20800 mg/kg	-
	LD50 Oral	Guinea pig	18350 mg/kg	-
	LD50 Oral	Mouse	22 g/kg	-
	LD50 Oral	Rabbit	18500 mg/kg	-
	LD50 Oral	Rat	20 g/kg	-
	LD50 Subcutaneous	Rat	22500 mg/kg	-
1,2-benzisothiazol-3(2H)-one	LD50 Oral	Mouse	1150 mg/kg	-
	LD50 Oral	Rat	1020 mg/kg	-
	LD50 Oral	Rat	1020 mg/kg	-

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Section 11. Toxicological information

2,2',2"-nitrilotriethanol: Triethanolamine can cause mild skin irritation at concentrations above 5%. In dermal studies conducted in B6C3F1 mice (NTP Report No. IMM90005), no statistically significant group or dose-dependent contact hypersensitivity responses to triethanolamine were observed. Based on animal studies, triethanolamine can be dermally absorbed at concentrations sufficient to produce systemic toxicity. In dermal studies, there was equivocal evidence of carcinogenic activity of triethanolamine in male F344/N rats based on a marginal increase in renal tubule cell adenomas. There was no evidence of carcinogenic activity in female F344/N rats that were administered triethanolamine at concentrations of 63, 125 or 250 mg/kg body weight. Triethanolamine is not mutagenic with and without S-9 activation. NTP, IARC and OSHA have not designated triethanolamine as a carcinogen.
propane-1,2-diol: Propylene glycol is slightly toxic by ingestion, skin contact, intraperitoneal, intravenous, subcutaneous and intramuscular routes. Repeated excessive exposure to propylene glycol has been associated with central nervous system effects.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2',2"-nitrilotriethanol	Eyes - Mild irritant	Rabbit	-	10 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Skin - Mild irritant	Human	-	72 hours 15	-
				mg l	
	Skin - Severe irritant	Mouse	-	50 %	-
	Skin - Mild irritant	Rabbit	-	24 hours 560	-
	The second Albert Section of	Date		mg	
glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Dabbit		mg 24 hours 500	_
	Skin - Mila Intant	Rabbit	-		-
propane-1,2-diol	Eyes - Mild irritant	Rabbit		mg 24 hours 500	_
propane-1,2-dior		Rabbit		mg	
	Eyes - Mild irritant	Rabbit	_	100 mg	_
	Skin - Moderate irritant	Child	_	96 hours 30	-
		C I III G		% C	
	Skin - Mild irritant	Human	-	168 hours	-
				500 mg	
	Skin - Moderate irritant	Human	-	72 hours 104	-
				mg I	
	Skin - Mild irritant	Woman	-	96 hours 30	-
				%	
1,2-benzisothiazol-3(2H)-one	Skin - Mild irritant	Human	-	48 hours 5 %	-
Skin	: No additional information.				
Eyes	: No additional information.				
Respiratory	: No additional information.				
Sensitization					
Not available.					
Skin	: No additional information.				
Respiratory	: No additional information.				
<u>Mutagenicity</u>					
Not available.					
Conclusion/Summary	: No additional information.				
Coroinogoniait					
Carcinogenicity					
Not available.					
Conclusion/Summary	: No additional information.				

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Classification

Section 11. Toxicological information

Product/ingredient name	0	SHA	IARC	NTP	
2,2',2"-nitrilotriethanol	-		3	-	
Reproductive toxicity Not available.					
Conclusion/Summary Teratogenicity Not available.	: N	o additio	onal inform	nation.	
Conclusion/Summary	: N	o additio	onal inform	nation.	
Specific target organ toxici Not available.	<u>ty (sir</u>	ngle exp	<u>oosure)</u>		
Specific target organ toxici Not available.	<u>ty (re</u> j	<u>peated</u>	<u>exposure)</u>)	
Aspiration hazard Not available.					
Information on the likely routes of exposure	: R	outes of	f entry antio	icipated: Dermal, Inhalation.	
Potential acute health effects	5				
Eye contact	: C	auses s	erious eye	e irritation.	
Inhalation	: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.				
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.				
Ingestion	: N	o knowr	n significan	nt effects or critical hazards.	
Symptoms related to the phy	/sical.	chemi	cal and to	oxicological characteristics	
Eye contact	: A pa w		symptoms	a may include the following:	
Inhalation	: N	o specif	ic data.		
Skin contact	irı	dverse s ritation edness	symptoms	a may include the following:	
Ingestion		o specif	ic data.		
Delayed and immediate effect	<u>:ts an</u>	<u>d also d</u>	<u>chronic ef</u>	ffects from short and long term exposure	
Short term exposure					
Potential immediate effects	: N	ot availa	able.		
Potential delayed effects	: N	ot availa	able.		
Long term exposure					
Potential immediate effects	: N	ot availa	able.		
Potential delayed effects		ot availa	able.		
Potential chronic health eff Not available.	<u>ects</u>				
General		nce ser ery low l		severe allergic reaction may occur when subsequen	tly exposed to
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Section 11. Toxicological information

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.

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
2,2',2"-nitrilotriethanol	Acute EC50 609.98 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 11800000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 16000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
propane-1,2-diol	Acute EC50 >110 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1020000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 710000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
1,2-benzisothiazol-3(2H)-one	Acute EC50 97 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 10 to 20 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 167 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Conclusion/Summary : Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2,2',2"-nitrilotriethanol	-1	<3.9	low
glycerol	-1.76	-	low
propane-1,2-diol	-1.07	-	low

Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

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 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Oil: The product(s) represented by this SDS is (are) regulated as "oil" under 49 CFR Part 130. Shipments by rail or highway in packaging having a capacity of 3500 gallons or more or in a quantity greater 42,000 gallons are subject to these requirements. In addition, mixtures containing 10% or more of this product may be subject to these requirements.

Additional information		
ADR/RID	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.	
ΙΑΤΑ	 The environmentally hazardous substance mark may appear if required by other transportation regulations. 	
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.	Э
Transport in bulk according to Annex II of MARPOL and the IBC Code	Not available.	

Section 15. Regulatory information

U.S. Federal regulations : United States inventory (TSCA 8b): All components are listed or exempted. This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

<u>SARA 302/304</u>	
Composition/informat	<u>ion on ingredients</u>
SARA 304 RQ	: Not applicable.
<u>SARA 311/312</u>	
Classification	: SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1
Composition/informat	ion on ingredients

Section 15. Regulatory information

Section 15. Regulatory information		
Name	%	Classification
2,2',2"-nitrilotriethanol	≤10	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
Alkoxylated long-chain alkyl acid	≤10	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
Ethanolamine carboxylic acid salt	≤3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
glycerol	≤3	EYE IRRITATION - Category 2A
propane-1,2-diol	≤3	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
1,2-benzisothiazol-3(2H)-one	<1	ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1

State regulations		
Massachusetts	The following components are listed: 2,2',2"-nitrilotriethanol; GLYCERINE MIST	
New York	: None of the components are listed.	
New Jersey	 The following components are listed: TRIETHANOLAMINE; ETHANOL, 2,2',2"- NITRILOTRIS-; GLYCERIN; 1,2,3-PROPANETRIOL; PROPYLENE GLYCOL; 1, 2-PROPANEDIOL 	
Pennsylvania	: The following components are listed: 2,2',2"-nitrilotriethanol; 1,2,3-PROPANETRIOL; 1, 2-PROPANEDIOL	
International regulations		
Inventory list		
United States	: All components are listed or exempted.	
Australia	: Not determined.	
Canada	: All components are listed or exempted.	
China	: All components are listed or exempted.	
Europe	: Not determined.	
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.	
Malaysia	: Not determined.	
New Zealand	: All components are listed or exempted.	
Philippines	: Not determined.	
Republic of Korea	: Not determined.	
Taiwan	: Not determined.	
Thailand	: Not determined.	
Turkey	: Not determined.	
Viet Nam	: Not determined.	

Section 16. Other information

National Fire Protection Association (U.S.A.)

Health 2 0 Instability/Reactivity Special

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Section 16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
SKIN IRRITATION - Category 2	Calculation method
EYE IRRITATION - Category 2A	Expert judgment
SKIN SENSITIZATION - Category 1	Calculation method
AQUATIC HAZARD (ACUTE) - Category 2	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 2	Calculation method
History	·

<u>HISTOLY</u>	
Date of printing	: 4/30/2020
Date of issue/Date of revision	: 4/30/2020
Date of previous issue	: 4/30/2020
Version	: 3
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 = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = 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.

✓ Indicates information that has changed from previously issued version.

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