

SAFETY DATA SHEET

1. Identification

Product identifier	ES COMPLEAT EG CONCENTRATE (Ethylene glycol based antifreeze)			
Other means of identification				
SDS number	LT16588			
Product code	CC2820, CC2821, CC2822, CC2847, CC2823			
Recommended use	Concentrated antifreeze / coolant.			
Recommended restrictions	None known.			
Manufacturer/Importer/Supplier/	Distributor information			
Manufacturer				
Company name	Cummins Filtration			
Address	1200 Fleetguard Road			
	Cookeville, TN 38506			
Tolonhono	United States 24 Hours per day	1-800-22FILTER		
Telephone	24 Hours per day	(1-800-223-4583)		
E-mail	Not available.			
Emergency phone number	Within Continental U.S.	Chemtrec 1-800-424-9300		
5 71	Outside U.S.	Chemtrec 703-527-3887		
Supplier	Not available.			
2. Hazard(s) identification				
Physical hazards	This mixture does not meet the	e classification criteria according to OSHA HazCom 2012.		
Health hazards	Acute toxicity, oral	Category 4		
	Reproductive toxicity	Category 2		
	Specific target organ toxicity, s			
		single exposure Category 3 respiratory tract irritation		
		single exposure Category 3 narcotic effects		
Environmental hazards		e classification criteria according to OSHA HazCom 2012.		
OSHA defined hazards		-		
	This mixture does not meet the classification criteria according to OSHA HazCom 2012.			
Label elements				
Signal word	Warning			
Hazard statement	C C	se respiratory irritation. May cause drowsiness or dizziness.		
Hazaru Statement		y or the unborn child. May cause damage to organs.		
Precautionary statement				
Prevention		ore use. Do not handle until all safety precautions have been read		
		he mist or vapor. Wash thoroughly after handling. Do not eat, drink		
	gloves/protective clothing/eye	luct. Use only outdoors or in a well-ventilated area. Wear protective protection/face protection.		
Response		nter/doctor if you feel unwell. If inhaled: Remove person to fresh air		
	and keep comfortable for brea	thing. If exposed or concerned: Call a poison center/doctor. Rinse		
	mouth.			
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.			
Disposal	Dispose of contents/container	in accordance with local/regional/national/international regulations.		

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
ETHYLENE GLYCOL	Glycol alcohol 1,2-ETHANDIOL	107-21-1	90.0-100.0
Diethylene Glycol	2-(2-HYDROXYETHOXY)ETHANOL BIS(2-HYDROXYETHYL) ETHER	111-46-6	0.1-1.0
Disodium Tetraborate, Anhydrous	BORAX Sodium tetraborate	1330-43-4	0.1-0.5
Sodium Nitrite	Nitrous acid, sodium salt	7632-00-0	0.1-0.5
Sodium Molybdate	Molybdic acid, Disodium salt	7631-95-0	<= 0.2
Other components below reportable	e levels		1 - 3

Other components below reportable levels

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Most important symptoms/effects, acute and delayed	Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	Not available.

6. Accidental release measures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of Personal precautions, protective equipment and low areas. Wear appropriate personal protective equipment. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. emergency procedures Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	This product is miscible in water.
солосон али состану чр	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Sodium Molybdate (CAS 7631-95-0)	PEL	5 mg/m3	
US. ACGIH Threshold Limit	t Values		
Components	Туре	Value	Form
Disodium Tetraborate, Anhydrous (CAS 1330-43-4)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
ETHYLENE GLYCOL (CAS 107-21-1)	Ceiling	100 mg/m3	Aerosol.
Sodium Molybdate (CAS 7631-95-0)	TWA	0.5 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide t	o Chemical Hazards		
Components	Туре	Value	
Disodium Tetraborate, Anhydrous (CAS 1330-43-4)	TWA	1 mg/m3	
US. Workplace Environmer	ntal Exposure Level (WEEL) Guides		
US. Workplace Environmer Components	ntal Exposure Level (WEEL) Guides Type	Value	
	• • • •	Value 10 mg/m3	
Components Diethylene Glycol (CAS	Туре	10 mg/m3	
Components Diethylene Glycol (CAS 111-46-6)	Type TWA	10 mg/m3 or the ingredient(s). air changes per hour) should pplicable, use process enclosu tain airborne levels below reco	ires, local exhaust ventilatior mmended exposure limits. If
Components Diethylene Glycol (CAS 111-46-6) logical limit values propriate engineering trols	Type TWA No biological exposure limits noted for Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to main	10 mg/m3 or the ingredient(s). e air changes per hour) should pplicable, use process enclosu tain airborne levels below reco ished, maintain airborne levels	ires, local exhaust ventilatior mmended exposure limits. If
Components Diethylene Glycol (CAS 111-46-6) logical limit values propriate engineering trols	Type TWA No biological exposure limits noted fo Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to main exposure limits have not been establ	10 mg/m3 or the ingredient(s). e air changes per hour) should pplicable, use process enclosu tain airborne levels below reco ished, maintain airborne levels tent	ires, local exhaust ventilation mmended exposure limits. If
Components Diethylene Glycol (CAS 111-46-6) logical limit values propriate engineering trols	Type TWA No biological exposure limits noted fo Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to main exposure limits have not been establ s, such as personal protective equipm	10 mg/m3 or the ingredient(s). e air changes per hour) should pplicable, use process enclosu tain airborne levels below reco ished, maintain airborne levels tent	ires, local exhaust ventilation mmended exposure limits. If
Components Diethylene Glycol (CAS 111-46-6) logical limit values propriate engineering trols	Type TWA No biological exposure limits noted fo Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to main exposure limits have not been establ s, such as personal protective equipm	10 mg/m3 or the ingredient(s). e air changes per hour) should pplicable, use process enclosu tain airborne levels below reco ished, maintain airborne levels tent	ires, local exhaust ventilation mmended exposure limits. If
Components Diethylene Glycol (CAS 111-46-6) logical limit values propriate engineering trols ividual protection measures Eye/face protection Skin protection	Type TWA No biological exposure limits noted for Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to main exposure limits have not been establ s, such as personal protective equipm Wear safety glasses with side shields	10 mg/m3 or the ingredient(s). e air changes per hour) should pplicable, use process enclosu tain airborne levels below reco ished, maintain airborne levels ment s (or goggles).	ires, local exhaust ventilatior mmended exposure limits. If

Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Blue
Odor	Characteristic odour.
Odor threshold	Not available.
рН	9.4 - 10 (100%); 10.2 - 10.8 (50%)
Melting point/freezing point	Not available.
Initial boiling point and boiling range	383 °F (195 °C)
Flash point	231.8 °F (111.0 °C) Open Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	3.2
Flammability limit - upper (%)	15.3
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.05 mm Hg @ 20°C
Vapor density	2.1
Relative density	Not available.
Solubility(ies)	
Solubility (water)	completely miscible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Flammability class	Combustible IIIB estimated
Specific gravity	1.11 - 1.14
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

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Inhalation	Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Prolonged inhalation may be harmful. May cause damage to organs by inhalation. May cause irritation to the respiratory system.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Kidney injury may occur. Harmful if swallowed. May cause damage to organs by ingestion.
Most important symptoms/effects, acute and delayed	Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Ir

Information on toxicologic				
Acute toxicity	Harmful if swallowed. Narcotic ef	Harmful if swallowed. Narcotic effects. May cause respiratory irritation.		
Components	Species	Test Results		
Diethylene Glycol (CAS 111	-46-6)			
Acute				
Dermal				
LD50	Rabbit	13300 mg/kg		
Inhalation				
LC50	Rat	> 5.08 mg/l		
Oral				
LD50	Rat	25300 mg/kg		
visodium Tetraborate, Anhy	drous (CAS 1330-43-4)			
Acute				
Dermal				
LD50	Rabbit	> 2000 mg/kg		
Inhalation				
LC50	Rat	> 2.04 mg/l/4h		
Oral				
LD50	Rat	1200 mg/kg		
THYLENE GLYCOL (CAS	107-21-1)			
Acute				
Dermal				
LD50	Rabbit	9530 mg/kg		
Inhalation				
LC50	Rat	10.92 mg/l, 4 hours		
Oral				
LD50	Human	1110 - 1665 mg/kg		
	Rat	4000 mg/kg		
odium Molybdate (CAS 76	31-95-0)			
Acute				
Dermal				
LD50	Rabbit	No data in literature		
Inhalation				
LC50	Rat	> 2.08 mg/l, 4 Hours		
Oral				
LD50	Rat	4040 mg/kg		
2000	, iai	10 10 119/119		

Sodium Nitrite (CAS 7632-00-0) Acute

Dermal LD50

No data in literature

Rabbit

mponents	Species	T	est Results	
Inhalation				
LC50	Rat	Λ	lo data in literature	
Oral	_			
LD50	Rat	8	5 mg/kg	
* Estimates for product may I	be based on a	dditional component data not shown.		
kin corrosion/irritation	Prolonged skin contact may cause temporary irritation.			
erious eye damage/eye ritation	Direct contact with eyes may cause temporary irritation.			
espiratory or skin sensitizatio	n			
Respiratory sensitization	Not availab	le.		
kin sensitizer	•	ct is not expected to cause skin sensitization.		
erm cell mutagenicity	Not expect	ed to be hazardous by WHMIS criteria.		
arcinogenicity	This produce	ct is not considered to be a carcinogen by IAF	RC, ACGIH, NTP, or OSHA.	
OSHA Specifically Regulate Not listed.	ed Substance	es (29 CFR 1910.1001-1050)		
eproductive toxicity	Suspected	of damaging fertility or the unborn child.		
pecific target organ toxicity - ingle exposure		damage to organs. Kidney injury may occur. y cause damage to organs by ingestion.	Respiratory tract irritation. Narcotic	
pecific target organ toxicity - epeated exposure	Not classifi	Not classified.		
spiration toxicity	Not availab	le.		
hronic effects	Prolonged	inhalation may be harmful.		
2. Ecological information	n			
	Contains a substance which causes risk of hazardous effects to the environment. Do not material to drain into sewers/water supplies.			
cotoxicity			ffects to the environment. Do not allow	
•			ffects to the environment. Do not allow Test Results	
cotoxicity	material to	drain into sewers/water supplies.		
cotoxicity Components	material to	drain into sewers/water supplies.		
Components Diethylene Glycol (CAS 111- Aquatic Acute	material to 46-6)	drain into sewers/water supplies. Species	Test Results	
Components Diethylene Glycol (CAS 111- Aquatic	material to 46-6) EC10	drain into sewers/water supplies. Species Green plankton algae (Chlorococcales)	Test Results 1000 mg/l, 24 Hours	
Components Diethylene Glycol (CAS 111- Aquatic Acute	material to 46-6)	drain into sewers/water supplies. Species	Test Results	
Components Diethylene Glycol (CAS 111- Aquatic Acute Algae	material to 46-6) EC10	drain into sewers/water supplies. Species Green plankton algae (Chlorococcales)	Test Results 1000 mg/l, 24 Hours 48900 mg/l, 48 Hours	
Components Diethylene Glycol (CAS 111- Aquatic Acute Algae Crustacea Fish Disodium Tetraborate, Anhyco Aquatic	material to 46-6) EC10 EC50 LC50	drain into sewers/water supplies. Species Green plankton algae (Chlorococcales) Water flea (Daphnia magna) Fathead minnow (Pimephales promelas)	Test Results 1000 mg/l, 24 Hours 48900 mg/l, 48 Hours	
Components Diethylene Glycol (CAS 111- Aquatic Acute Algae Crustacea Fish Disodium Tetraborate, Anhyd	material to 46-6) EC10 EC50 LC50	drain into sewers/water supplies. Species Green plankton algae (Chlorococcales) Water flea (Daphnia magna) Fathead minnow (Pimephales promelas)	Test Results 1000 mg/l, 24 Hours 48900 mg/l, 48 Hours	
Components Diethylene Glycol (CAS 111- Aquatic Acute Algae Crustacea Fish Disodium Tetraborate, Anhyc Aquatic Acute	material to 46-6) EC10 EC50 LC50 drous (CAS 13	drain into sewers/water supplies. Species Green plankton algae (Chlorococcales) Water flea (Daphnia magna) Fathead minnow (Pimephales promelas) 330-43-4) Green algae (Selenastrum	Test Results 1000 mg/l, 24 Hours 48900 mg/l, 48 Hours 77900 mg/l, 96 hours	
Components Diethylene Glycol (CAS 111- Aquatic Acute Algae Crustacea Fish Disodium Tetraborate, Anhyo Aquatic Acute Algae	material to 46-6) EC10 EC50 LC50 drous (CAS 13 EC50	drain into sewers/water supplies. Species Green plankton algae (Chlorococcales) Water flea (Daphnia magna) Fathead minnow (Pimephales promelas) 330-43-4) Green algae (Selenastrum capricornutum) Water flea (Daphnia magna)	Test Results 1000 mg/l, 24 Hours 48900 mg/l, 48 Hours 77900 mg/l, 96 hours 15.4 mg/l, 96 Hours 141 mg/kg, 48 Hours	
Cotoxicity Components Diethylene Glycol (CAS 111- Aquatic Acute Algae Crustacea Fish Disodium Tetraborate, Anhyo Aquatic Acute Algae Crustacea Fish	material to 46-6) EC10 EC50 LC50 drous (CAS 13 EC50 EC50	drain into sewers/water supplies. Species Green plankton algae (Chlorococcales) Water flea (Daphnia magna) Fathead minnow (Pimephales promelas) 330-43-4) Green algae (Selenastrum capricornutum)	Test Results 1000 mg/l, 24 Hours 48900 mg/l, 48 Hours 77900 mg/l, 96 hours 15.4 mg/l, 96 Hours 141 mg/kg, 48 Hours	
Cotoxicity Components Diethylene Glycol (CAS 111- Aquatic Acute Algae Crustacea Fish Disodium Tetraborate, Anhyo Aquatic Acute Algae Crustacea	material to 46-6) EC10 EC50 LC50 drous (CAS 13 EC50 EC50	drain into sewers/water supplies. Species Green plankton algae (Chlorococcales) Water flea (Daphnia magna) Fathead minnow (Pimephales promelas) 330-43-4) Green algae (Selenastrum capricornutum) Water flea (Daphnia magna) Fathead minnow (Pimephales promelas)	Test Results 1000 mg/l, 24 Hours 48900 mg/l, 48 Hours 77900 mg/l, 96 hours 15.4 mg/l, 96 Hours 141 mg/kg, 48 Hours 332 mg/l, 96 Hours	
Components Diethylene Glycol (CAS 111- Aquatic Acute Algae Crustacea Fish Disodium Tetraborate, Anhyo Aquatic Acute Algae Crustacea Fish Chronic Crustacea	material to 46-6) EC10 EC50 LC50 drous (CAS 13 EC50 EC50 LC50 NOEC	drain into sewers/water supplies. Species Green plankton algae (Chlorococcales) Water flea (Daphnia magna) Fathead minnow (Pimephales promelas) 330-43-4) Green algae (Selenastrum capricornutum) Water flea (Daphnia magna) Fathead minnow (Pimephales promelas) Water flea (Daphnia magna)	Test Results 1000 mg/l, 24 Hours 48900 mg/l, 48 Hours 77900 mg/l, 96 hours 15.4 mg/l, 96 Hours 141 mg/kg, 48 Hours 332 mg/l, 96 Hours 6 mg/l, 21 days	
Cotoxicity Components Diethylene Glycol (CAS 111- Aquatic Acute Algae Crustacea Fish Disodium Tetraborate, Anhyo Aquatic Acute Algae Crustacea Fish Chronic Crustacea Fish Fish	material to 46-6) EC10 EC50 LC50 drous (CAS 13 EC50 EC50 LC50 NOEC NOEC	drain into sewers/water supplies. Species Green plankton algae (Chlorococcales) Water flea (Daphnia magna) Fathead minnow (Pimephales promelas) 330-43-4) Green algae (Selenastrum capricornutum) Water flea (Daphnia magna) Fathead minnow (Pimephales promelas)	Test Results 1000 mg/l, 24 Hours 48900 mg/l, 48 Hours 77900 mg/l, 96 hours 15.4 mg/l, 96 Hours 141 mg/kg, 48 Hours 332 mg/l, 96 Hours	
Components Diethylene Glycol (CAS 111- Aquatic Acute Algae Crustacea Fish Disodium Tetraborate, Anhyo Aquatic Acute Algae Crustacea Fish Chronic Crustacea	material to 46-6) EC10 EC50 LC50 drous (CAS 13 EC50 EC50 LC50 NOEC NOEC	drain into sewers/water supplies. Species Green plankton algae (Chlorococcales) Water flea (Daphnia magna) Fathead minnow (Pimephales promelas) 330-43-4) Green algae (Selenastrum capricornutum) Water flea (Daphnia magna) Fathead minnow (Pimephales promelas) Water flea (Daphnia magna)	Test Results 1000 mg/l, 24 Hours 48900 mg/l, 48 Hours 77900 mg/l, 96 hours 15.4 mg/l, 96 Hours 141 mg/kg, 48 Hours 332 mg/l, 96 Hours 6 mg/l, 21 days	

Rainbow trout (Oncorhynchus mykiss)

LC50

22810 mg/l, 96 Hours

	Species	Test Results
IC50	Green algae (Selenastrum capricornutum)	10940 mg/l, 96 Hours
NOEC	Green algae (Selenastrum capricornutum)	10000 mg/l, 96 Hours
S 7631-95-0)		
LC50	Water flea (Daphnia magna)	3220 mg/l, 48 hours
LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2911 mg/l, 96 hours
NOEC	Water flea (Daphnia magna)	50 mg/l, 21 days
NOEC	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	200 mg/l, 32 days
32-00-0)		
LC50	Rainbow trout (Oncorhynchus mykiss)	0.54 mg/l, 96 hours
EC50	Green Algae (Scenedesmus subspicatus)	> 100 mg/l, 72 hours
EC50	Water flea (Daphnia magna)	15.4 mg/l, 48 hours
NOEC	Green Algae (Scenedesmus subspicatus)	100 mg/l, 72 hours
	NOEC S 7631-95-0) LC50 LC50 NOEC NOEC 32-00-0) LC50 EC50 EC50	NOECGreen algae (Selenastrum capricornutum)NOECGreen algae (Selenastrum capricornutum)S 7631-95-0)LC50LC50Water flea (Daphnia magna) LC50LC50Rainbow trout,donaldson trout (Oncorhynchus mykiss)NOECWater flea (Daphnia magna) NOECNOECRainbow trout,donaldson trout (Oncorhynchus mykiss)32-00-0)EC50EC50Green Algae (Scenedesmus subspicatus)EC50Water flea (Daphnia magna) NOECNOECGreen Algae (Scenedesmus subspicatus)EC50Water flea (Daphnia magna)NOECGreen Algae (Scenedesmus subspicatus)EC50Water flea (Daphnia magna)NOECGreen Algae (Scenedesmus subspicatus)

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential	No data available.
Partition coefficient n-octan	nol / water (log Kow)
Diethylene Glycol	-1.5
ETHYLENE GLYCOL	-1.36
Bioconcentration factor (BC	CF)
Diethylene Glycol	3
ETHYLENE GLYCOL	10
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not available. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

0,			
US federal regulations	This product is a "Hazardous Standard, 29 CFR 1910.120 One or more components ar	0.	ed by the OSHA Hazard Communication
TSCA Section 12(b) Export	Notification (40 CFR 707, Sul	opt. D)	
Sodium Nitrite (CAS 7632	2-00-0)	1.0 % One-Time E	Export Notification only.
CERCLA Hazardous Substa	nce List (40 CFR 302.4)		
ETHYLENE GLYCOL (C/		Listed.	
Sodium Nitrite (CAS 7632		Listed.	
SARA 304 Emergency relea	se notification		
Not regulated.	d Substances (29 CFR 1910.	1001 1050)	
Not listed.	d Substances (29 CFR 1910.	1001-1050)	
Superfund Amendments and Re	•	AKA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No		
SARA 302 Extremely hazard	-		
Not listed.			
SARA 311/312 Hazardous chemical	No		
SARA 313 (TRI reporting)			
Chemical name		CAS number	% by wt.
ETHYLENE GLYCOL Sodium Nitrite		107-21-1 7632-00-0	90.0-100.0 0.1-0.5
ETHYLENE GLYCOL		107-21-1	90.0-100.0
ETHYLENE GLYCOL Sodium Nitrite Other federal regulations	112 Hazardous Air Pollutan	107-21-1 7632-00-0	90.0-100.0
ETHYLENE GLYCOL Sodium Nitrite Other federal regulations Clean Air Act (CAA) Section ETHYLENE GLYCOL (C/		107-21-1 7632-00-0 ts (HAPs) List	90.0-100.0 0.1-0.5
ETHYLENE GLYCOL Sodium Nitrite Other federal regulations Clean Air Act (CAA) Section ETHYLENE GLYCOL (C/	AS 107-21-1)	107-21-1 7632-00-0 ts (HAPs) List	90.0-100.0 0.1-0.5
ETHYLENE GLYCOL Sodium Nitrite Other federal regulations Clean Air Act (CAA) Section ETHYLENE GLYCOL (C/ Clean Air Act (CAA) Section	AS 107-21-1)	107-21-1 7632-00-0 ts (HAPs) List	90.0-100.0 0.1-0.5
ETHYLENE GLYCOL Sodium Nitrite Other federal regulations Clean Air Act (CAA) Section ETHYLENE GLYCOL (C/ Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act	AS 107-21-1) I 112(r) Accidental Release P	107-21-1 7632-00-0 ts (HAPs) List	90.0-100.0 0.1-0.5
ETHYLENE GLYCOL Sodium Nitrite Other federal regulations Clean Air Act (CAA) Section ETHYLENE GLYCOL (C/ Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations	AS 107-21-1) • 112(r) Accidental Release P Not regulated.	107-21-1 7632-00-0 ts (HAPs) List revention (40 CFR 6	90.0-100.0 0.1-0.5
ETHYLENE GLYCOL Sodium Nitrite Other federal regulations Clean Air Act (CAA) Section ETHYLENE GLYCOL (C/ Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. California Controlled Su Not listed.	AS 107-21-1) a 112(r) Accidental Release P Not regulated. ubstances. CA Department o	107-21-1 7632-00-0 ts (HAPs) List revention (40 CFR 6	90.0-100.0 0.1-0.5 8.130)
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ETHYLENE GLYCOL Sodium Nitrite Other federal regulations Clean Air Act (CAA) Section ETHYLENE GLYCOL (C/ Clean Air Act (CAA) Section Not regulated. Safe Drinking Water Act (SDWA) US state regulations US. California Controlled Su Not listed. US. Massachusetts RTK - S Disodium Tetraborate, Ar ETHYLENE GLYCOL (C/ Sodium Nitrite (CAS 7632)	AS 107-21-1) a 112(r) Accidental Release P Not regulated. ubstances. CA Department of ubstance List hhydrous (CAS 1330-43-4) AS 107-21-1)	107-21-1 7632-00-0 ts (HAPs) List revention (40 CFR 6	90.0-100.0 0.1-0.5 8.130)

US. Pennsylvania Worker and Community Right-to-Know Law

Diethylene Glycol (CAS 111-46-6) Disodium Tetraborate, Anhydrous (CAS 1330-43-4) ETHYLENE GLYCOL (CAS 107-21-1) Sodium Nitrite (CAS 7632-00-0)

US. Rhode Island RTK

ETHYLENE GLYCOL (CAS 107-21-1) Sodium Nitrite (CAS 7632-00-0)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

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Revision Information Product and Company Identification: Product Codes Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Regulatory Information: Canada GHS: Classification
Bibliography Not available.