ES Compleat EG Premix (50-50 and 60-40)

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022
Issue date: 2016-06-06 Revision date: 2025-05-27 Supersedes: 2025-04-07 Version: 4.0

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Trade name : ES Compleat EG Premix (50-50 and 60-40)
Product code : 50/50 Premix: CC2825 X, CC2825 (1 gal, 3.78L), CC2848 (5 gal, 18.93L), CC2826 (55 gal, 208.20L), CC8983 (275 gal, 1040.99L), CC2827 (Bulk)
60/40 Premix: CC2863 (55 gal, 208.20L), CC2907USR (275 gal, 1040.99L), CC2862 (Bulk)

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Concentrate Antiboil/Antifreeze Coolant

1.4. Supplier's details

Manufacturer
Fleetguard
1200 Fleetguard Road
Cookeville, TN, 38506
USA
T 1-800-22-FILTER (1-800-223-4583)

Distributor
Fleetguard
Canadian Distributor
11751 181 St.
Edmonton, AB, T5S 2K5
Canada
T 1-780-455-2151

1.5. Emergency phone number

Emergency number : Chemtrec 1-800-424-9300 (Within Continental U.S.)
Chemtrec 703-527-3887 (Outside the U.S.) Mexico: 800 681 9531

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

GHS classification

Acute toxicity (oral), Category 4
Carcinogenicity, Category 2
Reproductive toxicity, Category 1B
Specific target organ toxicity, Single exposure, Category 1

2.2. Label elements

GHS labelling

Hazard pictograms (GHS) :

Signal word (GHS) : Danger
Hazard statements (GHS) : Harmful if swallowed
Suspected of causing cancer.
May damage fertility or the unborn child.
Causes damage to organs (central nervous system, kidneys) (oral).
Precautionary statements (GHS) : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands, forearms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.
If exposed or concerned: Call a poison center or doctor.
If swallowed: Call Call a POISON CENTER or doctor if you feel unwell.
Rinse mouth.
Store locked up.
Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

Not applicable

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%Weight
Ethylene glycol	Ethylene glycol 1,2-Dihydroxyethane / Ethane-1,2-diol / 1,2-Ethanediol / Ethanediol / GLYCOL / Glycol / Monoethylene glycol	CAS-No.: 107-21-1	45 – 70
Sodium nitrite	Sodium nitrite sodium nitrite / SODIUM NITRITE / Nitrous acid, sodium salt (1:1) / Nitrous acid, sodium salt / Diazotizing salts	CAS-No.: 7632-00-0	0.1 – 1

Name	Chemical name / Synonyms	Product identifier	%Weight
Disodium tetraborate	Disodium tetraborate Sodium tetraborate anhydrous / Disodium tetraborate anhydrous / SODIUM BORATE / Sodium borate anhydrous / Sodium tetraborate / Sodium borate / Disodium tetraborate, anhydrous / Boron sodium oxide (B4Na2O7) / Boron sodium oxide / Boric acid, disodium salt / Boric acid (H2B4O7), disodium salt / Anhydrous borax / Tetraboron disodium heptaoxide / Sodium borate, anhydrous / Disodium tetraborate, (anhydrous) / Tetraborates, sodium salts, anhydrous	CAS-No.: 1330-43-4	0.1 – 1
Potassium hydroxide	Potassium hydroxide Caustic potash / Potassium hydroxide (K(OH)) / POTASSIUM HYDROXIDE	CAS-No.: 1310-58-3	0.1 – 1
Sodium molybdate	Sodium molybdate Disodium molybdate / Molybdate (MoO42-), disodium, (T-4)- / Molybdic acid (H2MoO4), disodium salt / Molybdic acid, disodium salt / Molybdate (MoO42-), sodium (1:2), (T-4)- / Molybdate, disodium, (T-4)- / Sodium molybdate(VI) / Sodium molybdate, anhydrous / SODIUM MOLYBDATE / sodium molybdate	CAS-No.: 7631-95-0	0.1 – 1

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact : If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.

First-aid measures after eye contact : 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 advice/attention.

First-aid measures after ingestion : IF SWALLOWED: Call a POISON center/doctor. Do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Symptoms/effects after ingestion : Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic symptoms : Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Use water spray to cool exposed surfaces. Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

For non-emergency personnel

No additional information available

For emergency responders

Environmental precautions : Prevent entry to sewers and public waters.

6.2. Methods and materials for containment and cleaning up

For containment : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.
Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Keep out of the reach of children. Keep only in original container. Store tightly closed in a dry, cool and well-ventilated place. Store locked up.

Specific end uses : Concentrate Antiboil/Antifreeze Coolant.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Disodium tetraborate (1330-43-4)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)
ACGIH OEL STEL	6 mg/m³ (inhalable particulate matter (Borate compounds, inorganic)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	1 mg/m³

Potassium hydroxide (1310-58-3)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL C	2 mg/m³
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL C	2 mg/m³

Ethylene glycol (107-21-1)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethylene glycol
ACGIH OEL TWA	25 ppm (vapor fraction)
ACGIH OEL STEL	10 mg/m³ (inhalable particulate matter, aerosol only)
ACGIH OEL STEL	50 ppm (vapor fraction)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2024

8.2. Appropriate engineering controls

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits. Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection:

Wear suitable gloves. Consult glove manufacturer's product information on material suitability and material thickness.

Eye protection:

Safety glasses or goggles are recommended when using product.

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. 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. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Other information:
Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Clear. Blue. Liquid.
Odour	:	Odourless
Odour threshold	:	No data available
pH	:	10.2 – 10.8
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	> 226 °F
Flash point	:	No data available
Flammability (solid, gas)	:	Non flammable.
Vapour pressure	:	No data available
Relative vapour density at 20°C/ 68 °F	:	No data available
Relative density	:	1.074 – 1.09 (Water=1)
Solubility	:	Miscible.
Partition coefficient n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Explosive limits	:	No data available
Particle characteristics	:	No data available

Sodium nitrite	
Boiling point	320 °C (with decomposition)

Disodium tetraborate	
Boiling point	1575 °C (with decomposition)
Vapour pressure	0.213 hPa (at 20 °C)

Potassium hydroxide	
Boiling point	1320 °C
Vapour pressure	2.6664 – 3.9997 hPa (at 15.6 °C)

Ethylene glycol	
Boiling point	197.3 °C (at 1013 hPa)
Flash point	115 °C (open cup)
Auto-ignition temperature	398 °C
Vapour pressure	0.1 hPa (at 20 °C)

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified.
Acute toxicity (inhalation) : Not classified.

ES Compleat EG Premix (50-50 and 60-40)	
ATE US (oral)	804.581 mg/kg bodyweight

Sodium nitrite (7632-00-0)	
LD50 oral rat	85 mg/kg (Source: JAPAN_GHS)
LC50 inhalation rat	5.5 mg/l/4h

Disodium tetraborate (1330-43-4)	
LD50 oral rat	2660 mg/kg (Source: JAPAN_GHS)
LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA_API)
LC50 inhalation rat	> 2 mg/m³ (Exposure time: 4 h Source: NLM_HSDB)

Sodium molybdate (7631-95-0)	
LD50 oral rat	4000 mg/kg (Source: NZ_CCID)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 inhalation rat	> 5.84 mg/l/4h

Potassium hydroxide (1310-58-3)	
LD50 oral rat	284 mg/kg (Source: JAPAN_GHS)
LD50 oral	284 mg/kg

Ethylene glycol (107-21-1)	
LD50 oral rat	7712 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	10600 mg/kg (Source: Health Canada)
LD50 dermal	9530 mg/kg
LC50 inhalation rat	> 2.5 mg/l (Exposure time: 6 h Source: ECHA_API)
LD50, human, oral	1570 mg/kg (ingestion of ethylene glycol is more hazardous to humans than animals (Source: Health Canada))

Skin corrosion/irritation : Not classified.
pH: 10.2 – 10.8

Potassium hydroxide (1310-58-3)	
pH	13 (conc: 1 % (solution)

Serious eye damage/irritation : Not classified.
pH: 10.2 – 10.8

Potassium hydroxide (1310-58-3)	
pH	13 (conc: 1 % (solution)

Respiratory or skin sensitisation : Not classified.

Germ cell mutagenicity : Not classified.

Carcinogenicity : Suspected of causing cancer.

Ethylene glycol (107-21-1)	
NOAEL (chronic, oral, animal/male, 2 years)	1500 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)

Reproductive toxicity : May damage fertility or the unborn child.

STOT-single exposure : Causes damage to organs (central nervous system, kidneys) (oral).

Ethylene glycol (107-21-1)	
STOT-single exposure	Causes damage to organs (central nervous system, kidneys) (oral).

STOT-repeated exposure : Not classified.

Sodium nitrite (7632-00-0)	
NOAEL (subchronic, oral, animal/male, 90 days)	220 mg/kg bodyweight Animal: mouse, Animal sex: male
NOAEL (subchronic, oral, animal/female, 90 days)	165 mg/kg bodyweight Animal: mouse, Animal sex: female

Sodium molybdate (7631-95-0)	
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	> 0.1 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

Aspiration hazard : Not classified.

ES Compleat EG Premix (50-50 and 60-40)	
Viscosity, kinematic	No data available

Sodium nitrite (7632-00-0)	
Viscosity, kinematic	No data available

Disodium tetraborate (1330-43-4)	
Viscosity, kinematic	No data available

Sodium molybdate (7631-95-0)	
Viscosity, kinematic	No data available

Potassium hydroxide (1310-58-3)	
Viscosity, kinematic	No data available

Ethylene glycol (107-21-1)	
Viscosity, kinematic	14.465 mm²/s

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.
Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/effects after ingestion : Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms : Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs.
Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.
Hazardous to the aquatic environment, short–term (acute) : Not classified.
Hazardous to the aquatic environment, long–term (chronic) : Not classified.

Sodium nitrite (7632-00-0)	
LC50 - Fish [1]	0.19 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)
EC50 - Crustacea [1]	15.4 mg/l Test organisms (species): Daphnia magna
LC50 - Fish [2]	0.092 – 0.13 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

Disodium tetraborate (1330-43-4)	
LC50 - Fish [1]	340 mg/l (Exposure time: 96 h - Species: Limanda limanda Source: IUCLID)
EC50 - Crustacea [1]	1085 – 1402 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	74 mg/l Test organisms (species): Limanda limanda
EC50 72h - Algae [1]	66 mg/l Test organisms (species): Phaeodactylum tricornutum
EC50 72h - Algae [2]	54 mg/l Test organisms (species): Phaeodactylum tricornutum

Disodium tetraborate (1330-43-4)	
EC50 96h - Algae [1]	158 mg/l (Species: Desmodesmus subspicatus)
EC50 96h - Algae [2]	2.6 – 21.8 mg/l (Species: Pseudokirchneriella subcapitata [static])
NOEC chronic fish	6.4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '34 d'

Ethylene glycol (107-21-1)	
LC50 - Fish [1]	41000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)
EC50 - Crustacea [1]	46300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	14 – 18 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
EC50 96h - Algae [1]	6500 – 13000 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 96h - Algae [2]	6500 – 13000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'
NOEC chronic crustacea	4.2 mg/l

12.2. Persistence and degradability

ES Compleat EG Premix (50-50 and 60-40)	
Persistence and degradability	Not established.

Sodium nitrite (7632-00-0)	
Persistence and degradability	Rapidly degradable

Disodium tetraborate (1330-43-4)	
Persistence and degradability	Rapidly degradable

Sodium molybdate (7631-95-0)	
Persistence and degradability	Rapidly degradable

Potassium hydroxide (1310-58-3)	
Persistence and degradability	Rapidly degradable

Ethylene glycol (107-21-1)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

ES Compleat EG Premix (50-50 and 60-40)	
Bioaccumulative potential	Not established.

Sodium nitrite (7632-00-0)	
Partition coefficient n-octanol/water	-3.7 (at 25 °C)

Disodium tetraborate (1330-43-4)	
BCF - Fish [1]	(no evidence of bioaccumulation)
Partition coefficient n-octanol/water	-1.53 (at 22 °C (at pH 7.5)

Potassium hydroxide (1310-58-3)	
Partition coefficient n-octanol/water	0.65

Ethylene glycol (107-21-1)	
Partition coefficient n-octanol/water	-1.36

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified.
Fluorinated greenhouse gases : No

Other information : Avoid release to the environment. No other effects known.

SECTION 13 Disposal considerations

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14 Transport information

In accordance with DOT / TDG

14.1. UN Number

UN-No. (DOT) : Not regulated
UN-No. (TDG) : Not regulated

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not regulated
Proper Shipping Name (TDG) : Not regulated

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : Not regulated

TDG
Transport hazard class(es) (TDG) : Not regulated

14.4. Packing group

Packing group (DOT) : Not regulated
Packing group (TDG) : Not regulated

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT
Not regulated

TDG

Not regulated

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:	
Phosphonic acid, methyl-, mono[3-(trihydroxysilyl)propyl] ester, monosodium salt	CAS-No. 84962-98-1
All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories	

15.2. International regulations

No additional information available

15.3. State regulations

WARNING: This product can expose you to Ethylene glycol (ingested), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16 Other Information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

Revision date	:	2025-05-27
Issue date	:	2016-06-06
Other information	:	None.
Prepared by	:	Nexreg Compliance Inc. www.Nexreg.com
Prepared for	:	Fleetguard

Indication of changes:
SDS update. GHS Classification.

SDS HazCom 2024 - WHMIS 2022 (Nexreg) 2025

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