ES Compleat OAT Concentrate

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022
Issue date: 2017-05-23 Revision date: 2025-05-27 Supersedes: 2025-03-31 Version: 3.0

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : ES Compleat OAT Concentrate
Product code : CC3607300 (1 gal), CC3607200 (55 gal), CC3607000JX USR (274 gal), CC360700 (bulk), CC360700JX USP

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Premix Antifreeze

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.)

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

GHS classification

Acute toxicity (oral), Category 4
Serious eye damage/eye irritation, Category 2
Reproductive toxicity, Category 2
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
Causes serious eye irritation
Suspected of damaging 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, and hearing protection.
If swallowed: Call a poison center or doctor if you feel unwell.
Rinse mouth.
If exposed or concerned: Call a poison center or doctor.
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 or attention.
Store locked up.
Dispose of hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation 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	80 – 100
Decanedioic acid, disodium salt	Decanedioic acid, disodium salt Decanedioate, disodium / Disodium sebacate / Sebacic acid, disodium salt / Decanedioic acid, sodium salt (1:2) / DISODIUM SEBACATE / Disodium decanedioate / Sodium sebacate	CAS-No.: 17265-14-4	1 – 5
Sodium benzoate	Sodium benzoate SODIUM BENZOATE / Benzoic acid, sodium salt (1:1) / Benzoic acid, sodium salt	CAS-No.: 532-32-1	1 – 5

Name	Chemical name / Synonyms	Product identifier	%Weight
Tolyltriazole, sodium salt	Tolyltriazole, sodium salt Benzotriazole (1H), methyl, sodium salt / 1H-Benzotriazole, 4(or 5)-methyl-, sodium salt / Methyl-1H-benzotriazole, sodium salt / Sodium 4(or 5)-methyl-1H-benzotriazolide / Sodium 4-(or 5-)methyl-benzotriazole / 1H-Benzotriazole, 6(or 7)-methyl-, sodium salt (1:1) / Sodium tolyltriazole / Tolyltriazole sodium / sodium tolyltriazole	CAS-No.: 64665-57-2	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: Do NOT induce vomiting, Rinse mouth. Never give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell.

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 : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

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

Chronic symptoms : Suspected of damaging 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 : Use extinguishing media appropriate for surrounding fire.

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. Oxides of sodium. irritating vapours.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Cool closed containers exposed to fire with water spray. 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 : Contain spill, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

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. Use only outdoors or in a well-ventilated area. Do not breathe dust, fume, gas, mist, spray, vapours. When using do not eat, drink or smoke. Do not get in eyes, on skin, or on clothing. Do not swallow. Handle and open container with care.

Hygiene measures : Wash contaminated clothing before reuse. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a well-ventilated place. Store locked up.

Specific end uses : Premix Antifreeze

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

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

Sodium benzoate (532-32-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	2.5 mg/m³ (inhalable particulate matter)
ACGIH chemical category	Not Suspected as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route

8.2. Appropriate engineering controls

Appropriate engineering controls : 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:

Wear eye/face protection

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.

Other information:

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 (Clear)
Colour	:	Red
Odour	:	No data available
Odour threshold	:	No data available
pH	:	8.9 – 9
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	179 °F (81.7 C)
Flash point	:	No data available
Flammability (solid, gas)	:	Not flammable
Vapour pressure	:	No data available
Relative vapour density at 20°C/ 68 °F	:	No data available
Relative density	:	1.118 – 1.148
Solubility	:	No data available
Partition coefficient n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	12.5 mm²/s
Explosive limits	:	No data available
Particle characteristics	:	No data available

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)

Sodium benzoate	
Flash point	> 100 °C (closed cup)

Tolyltriazole, sodium salt	
Vapour pressure	(>0 - <0.069 Pa - at 30 °C)

D9.2. 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

Heat. Incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Oxides of sodium. irritating vapours.

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 OAT Concentrate	
ATE US (oral)	537.824 mg/kg bodyweight

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))

Decanedioic acid, disodium salt (17265-14-4)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: no indication of skin irritation up to the relevant limit dose level

Sodium benzoate (532-32-1)	
LD50 oral rat	4070 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit
LC50 inhalation rat	> 12.2 mg/l air Animal: rat

Tolyltriazole, sodium salt (64665-57-2)	
LD50 oral rat	1980 mg/kg (Source: EPA_HPV)
LD50 dermal rabbit	> 2000 mg/kg (Source: EPA_HPV)

Skin corrosion/irritation : Not classified.
pH: 8.9 – 9

Sodium benzoate (532-32-1)	
pH	≈ 8 Remarks on result: 'other:'

Serious eye damage/irritation : Causes serious eye irritation.
pH: 8.9 – 9

Sodium benzoate (532-32-1)	
pH	≈ 8 Remarks on result: 'other:'

Respiratory or skin sensitisation : Not classified.

Germ cell mutagenicity : Not classified.

Carcinogenicity : Not classified.

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 : Suspected of damaging 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 benzoate (532-32-1)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat
NOAEL (dermal, rat/rabbit, 90 days)	> 2500 mg/kg bodyweight Animal: rabbit, Guideline: EPA OPP 82-2 (Repeated Dose Dermal Toxicity -21/28 Days)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	≤ 0.025 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)

Tolyltriazole, sodium salt (64665-57-2)	
NOAEL (oral, rat, 90 days)	≈ 150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Aspiration hazard : Not classified.

ES Compleat OAT Concentrate	
Viscosity, kinematic	12.5 mm²/s

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

Decanedioic acid, disodium salt (17265-14-4)	
Viscosity, kinematic	No data available

Sodium benzoate (532-32-1)	
Viscosity, kinematic	No data available

Tolyltriazole, sodium salt (64665-57-2)	
Viscosity, kinematic	No data available

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 : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

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

Chronic symptoms : Suspected of damaging 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.

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)

Ethylene glycol (107-21-1)	
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

Decanedioic acid, disodium salt (17265-14-4)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
LC50 - Fish [2]	> 18 mg/l Test organisms (species): other:

Sodium benzoate (532-32-1)	
LC50 - Fish [1]	484 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	< 650 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 72h - Algae [1]	> 30.5 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC chronic fish	10 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '144 h'

Tolyltriazole, sodium salt (64665-57-2)	
LC50 - Fish [1]	180 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	15.8 mg/l Test organisms (species): other aquatic crustacea:Daphnia galeata
EC50 - Other aquatic organisms [1]	15.8 mg/l Test organisms (species): other aquatic crustacea:
LC50 - Fish [2]	55 mg/l Test organisms (species): Cyprinodon variegatus
EC50 - Crustacea [2]	8.58 mg/l Test organisms (species): other aquatic crustacea:Daphnia galeata
EC50 - Other aquatic organisms [2]	8.58 mg/l Test organisms (species): other aquatic crustacea:
LOEC (chronic)	37.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	18.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

ES Compleat OAT Concentrate	
Persistence and degradability	Not established.

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

Decanedioic acid, disodium salt (17265-14-4)	
Persistence and degradability	Rapidly degradable

Sodium benzoate (532-32-1)	
Persistence and degradability	Not rapidly degradable

Tolyltriazole, sodium salt (64665-57-2)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

ES Compleat OAT Concentrate	
Bioaccumulative potential	Not established.
Ethylene glycol (107-21-1)	
Partition coefficient n-octanol/water	-1.36
Decanedioic acid, disodium salt (17265-14-4)	
Partition coefficient n-octanol/water	-4.9 (at 20 °C (at pH 7.8)
Sodium benzoate (532-32-1)	
BCF - Fish [1]	(no bioaccumulation)
Partition coefficient n-octanol/water	-2.13
Tolyltriazole, sodium salt (64665-57-2)	
Partition coefficient n-octanol/water	(1.083 - <=1.091 - at 25 °C (at pH >5-<6)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified.

Fluorinated greenhouse gases : No

Other information : 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:	
Dipotassium adipate	CAS-No. 19147-16-1
4,4'-[1,4-Phenylenebis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino]]bis[5-hydroxy-6-[(2-sulphophenyl)azo]naphthalene-2,7-disulphonic acid	CAS-No. 61951-82-4

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 except for:	
Dipotassium adipate	CAS-No. 19147-16-1
4,4'-[1,4-Phenylenebis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino]]bis[5-hydroxy-6-[(2-sulphophenyl)azo]naphthalene-2,7-disulphonic acid	CAS-No. 61951-82-4

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 : 2017-05-23
Other information : None.
Prepared by: Nexreg Compliance, Inc.
Prepared for: Fleetguard

Indication of changes:
GHS classification. SDS update.

SDS HazCom 2024 - WHMIS 2022 (Nexreg) 2025