



SAFETY DATA SHEET

Fendt Antifreeze Extra

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Fendt Antifreeze Extra

Product number 7898-199

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Supplier AGCO Ltd - Fendt Brand
 Abbey Park
 Stoneleigh
 Kenilworth
 England
 CV8 2TQ
 +44(0)2476694400
 +44(0)2476851226
 sds@uk.agcocorp.com

1.4. Emergency telephone number

Emergency telephone +44(0)1743 232200 (08.45 - 17.00 GMT)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 STOT RE 2 - H373

Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) Xn;R22.

2.2. Label elements

Pictogram



Signal word Warning

Hazard statements H302 Harmful if swallowed.
 H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements P102 Keep out of reach of children.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P501a Dispose of contents/container to hazardous or special waste collection point.

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Contains ETHANEDIOL

Supplementary precautionary statements P101 If medical advice is needed, have product container or label at hand.
 P103 Read label before use.
 P260 Do not breathe vapour/spray.
 P264 Wash contaminated skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P314 Get medical advice/attention if you feel unwell.
 P330 Rinse mouth.
 P405 Store locked up.

2.3. Other hazards

High pressure injection under skin may cause serious damage. Ingestion may cause serious adverse effects and may be fatal. May cause kidney failure and central nervous system effects. Prolonged exposure to elevated concentrations of mist or liquid may cause irritation of the skin, eyes and respiratory tract.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ETHANEDIOL		60-100%
CAS number: 107-21-1	EC number: 203-473-3	REACH registration number: 01-2119456816-28-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302 STOT RE 2 - H373	Xn;R22	
2-Ethylhexanoic acid, Sodium salt		1-5%
CAS number: 19766-89-3	EC number: 243-283-8	REACH registration number: 01-2119488942-23-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)	
Repr. 2 - H361d	Repr. Cat. 3;R63.	
Disodium tetraborate pentahydrate; borax pentahydrate		<1%
CAS number: 12179-04-3	EC number: 215-540-4	REACH registration number: 01-2119490790-32-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)	
Eye Irrit. 2 - H319 Repr. 1B - H360FD	Repr. Cat. 1;R60,R61. Xi;R41.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove affected person from source of contamination. Get medical attention immediately. If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration.

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Ingestion	DO NOT induce vomiting. Get medical attention immediately.
Skin contact	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.
Eye contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if irritation persists after washing.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Vapours may cause headache, fatigue, dizziness and nausea.
Skin contact	Local necrosis as evidenced by delayed onset of pain and tissue damage a few hours after injection.

4.3. Indication of any immediate medical attention and special treatment needed

Specific treatments	This product contains ethylene glycol and or diethylene glycol which, if ingested, are metabolised to toxic metabolites by the enzyme alcohol dehydrogenase, for which ethanol and 4-methylpyrazole are antagonists. Administration of oral or intravenous ethanol or intravenous 4-methylpyrazole may arrest further metabolism of this material and thereby ameliorate the toxicity. Use of ethanol or 4-methylpyrazole does not affect toxic metabolites and is not a substitute for hemodialysis.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Straight streams of water or standard foam

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Oxides of carbon. Acrid smoke or fumes.
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5.3. Advice for firefighters

Protective actions during firefighting	Evacuate area. Control run-off water by containing and keeping it out of sewers and watercourses. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

Environmental precautions	Collect and place in suitable waste disposal containers and seal securely. Avoid discharge into drains or watercourses or onto the ground.
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6.3. Methods and material for containment and cleaning up

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Methods for cleaning up Stop leak if safe to do so. Do not touch or walk into spilled material. Absorb spillage with non-combustible, absorbent material. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid inhalation of vapours and spray/mists. Avoid contact with skin, eyes and clothing. Handle all packages and containers carefully to minimise spills.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in a closed container.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m³ vapour

Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m³ vapour

Sk

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

Disodium tetraborate pentahydrate; borax pentahydrate

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

ETHANEDIOL (CAS: 107-21-1)

DNEL	Industry - Inhalation; Short term : 35 mg/m ³ Industry - Dermal; Long term : 106 mg/kg/day Consumer - Dermal; Long term : 53 mg/kg/day Consumer - Inhalation; Long term : 7 mg/m ³
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PNEC	- Fresh water; 10 mg/l - Marine water; 1 mg/l - STP; 199.5 mg/l - Soil; 1.53 mg/l
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Disodium tetraborate pentahydrate; borax pentahydrate (CAS: 12179-04-3)

DNEL	Consumer - Oral; Short term systemic effects: 1.15 mg/kg/day Consumer - Oral; Long term systemic effects: 1.15 mg/kg/day Industry - Dermal; Long term systemic effects: 458.2 mg/kg/day Consumer - Dermal; Long term systemic effects: 231.8 mg/kg/day Industry - Inhalation; Short term local effects: 17.04 mg/m ³ Industry - Inhalation; Long term systemic effects: 9.8 mg/m ³ Consumer - Inhalation; Long term systemic effects: 4.9 mg/m ³
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PNEC	<ul style="list-style-type: none"> - STP; 10 mg/l - Water; 13.7 mg/l - Fresh water; 2.02 mg/l - Marine water; 2.02 mg/l
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8.2. Exposure controls

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Blue-green.
Odour	Mild.
pH	pH (diluted solution): ~7.0
Melting point	<-18°C
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 14.6 Lower flammable/explosive limit: 4.9
Relative density	1.12 @ 20°C
Solubility(ies)	Completely soluble in water.
Viscosity	20-30 cSt @ 20°C

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity See the other subsections of this section for further details.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 555.5555556

SECTION 12: Ecological Information

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12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical safety assessment

SECTION 16: Other information

Revision date	20/05/2015
Revision	2
Supersedes date	05/08/2013
SDS number	21804

Fendt Antifreeze Extra

Risk phrases in full

R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.
R60 May impair fertility.
R61 May cause harm to the unborn child.
R63 Possible risk of harm to the unborn child.

Hazard statements in full

H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H360FD May damage fertility. May damage the unborn child.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.