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

#### **Product identifier**

antifreeze

Article number: 22274, 22272, 12710, 01381, 33830, 71381

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

#### 1.2.1 Relevant uses

Anti-freezing agents

For all uses not specified in SECTION 1.2.1

#### Details of the supplier of the safety data sheet

Ferdinand Bilstein GmbH + Co. KG Company

Wilhelmstr. 47

58256 Ennepetal / GERMANY Phone +49 2333 911-0 Fax +49 2333 911-444 Homepage www.febi.com E-mail info@febi.com

Address enquiries to

**Technical information** info@febi.com info@febi.com Safety Data Sheet

#### 1.4 Emergency telephone number

**Advisory body** +49 (0)89-19240 (24h) (English)

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture [REGULATION (GB) CLP]

Acute Tox. 4: H302 Harmful if swallowed.

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.

Eye Irrit. 2: H319 Causes serious eye irritation. Skin Irrit. 2: H315 Causes skin irritation.

#### Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms



Ethylene glycol

WARNING

Potassium 3,5,5-trimethylhexanoate

**Hazard statements** H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P260 Do not breathe vapours.

P270 Do no eat, drink or smoke when using this product.

P280 Wear protective gloves / eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P301+P312 IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell.

P314 Get medical advice / attention if you feel unwell.

P501 Dispose of contents / container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of

disposal.

### 1.2.2 Uses advised against











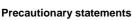


















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#### 2.3 Other hazards

**Environmental hazards** Does not contain any PBT or vPvB substances.

Contains no ingredients with endocrine-disrupting properties.

Other hazards Further hazards were not determined with the current level of knowledge.

#### **SECTION 3: Composition / Information on ingredients**

#### 3.1 Substances

not applicable

#### 3.2 Mixtures

#### The product is a mixture.

Range [%]	Substance
60 - < 100	Ethylene glycol
	CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, Reg-No.: 01-2119456816-28-XXXX
	GHS/CLP: Acute Tox. 4: H302 - STOT RE 2: H373
1 - <2,5	Potassium 3,5,5-trimethylhexanoate
	CAS: 93918-10-6, EINECS/ELINCS: 299-890-3, Reg-No.: 01-2120747787-36-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1: H314 - Eye Dam. 1: H318
<0,3	Methyl-1H-benzotriazole
	CAS: 29385-43-1, EINECS/ELINCS: 249-596-6, Reg-No.: 01-2119979081-35-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Repr. 2: H361d - Aquatic Chronic 2: H411

Comment on component parts For full text of H-statements: see SECTION 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

**General information** Take off contaminated clothing and wash before reuse.

**Inhalation** Remove person to fresh air and keep comfortable for breathing.

In the event of symptoms seek medical treatment.

**Skin contact** In case of contact with skin wash off immediately with plenty of water.

Consult a doctor if skin irritation persists.

Eye contact 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.

**Ingestion** Consult a doctor immediately.

Rinse out mouth and give plenty of water to drink.

Do not induce vomiting.

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

No information available.

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

Treat symptomatically.

If swallowed or in the event of vomiting, risk of product entering the lungs.

Forward this sheet to your doctor.

Monitor kidney function and hematology.

#### **SECTION 5: Fire-fighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media Product itself is non-combustible. Fire extinguishing method of surrounding areas must be

considered.

Extinguishing media that must not

be used

Full water jet.

#### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

Carbon monoxide (CO)

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#### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

High risk of slipping due to leakage/spillage of product.

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

#### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

#### 6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous

earth).

Dispose of absorbed material in accordance within the regulations.

#### 6.4 Reference to other sections

See SECTION 8+13

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Provide suitable vacuuming at the processing area.

Take off contaminated clothing and wash before reuse.

Do not eat, drink or smoke when using this product.

Use barrier skin cream.

Wash hands before breaks and after work.

Contaminated work clothing should not be allowed out of the workplace.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Keep container in a well-ventilated place.

### 7.3 Specific end use(s)

See product use, SECTION 1.2



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#### **SECTION 8: Exposure controls / personal protection**

#### 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (UK)

Substance

Ethylene glycol

CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, Reg-No.: 01-2119456816-28-XXXX

Long-term exposure: 20 ppm, 52 mg/m³, Vapour, particulate: 10 mg/m³

Short-term exposure (15-minute): 40 ppm, 104 mg/m<sup>3</sup>

#### Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

Substance / EC LIMIT VALUES

Ethylene glycol

CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, Reg-No.: 01-2119456816-28-XXXX

Eight hours: 20 ppm, 52 mg/m³, H

Short-term (15-minute): 40 ppm, 104 mg/m<sup>3</sup>

#### DNEL

٥.	·ha	+	ce
JI.	11)5	IAL	10:00

Methyl-1H-benzotriazole, CAS: 29385-43-1

Industrial, inhalative, Long-term - systemic effects, 21.2 mg/m<sup>3</sup>

Industrial, dermal, Long-term - systemic effects, 300 µg/kg bw/day

general population, inhalative, Long-term - systemic effects, 350 µg/m³

general population, dermal, Long-term - systemic effects, 10 µg/kg bw/day

general population, oral, Long-term - systemic effects, 10 µg/kg bw/day

Ethylene glycol, CAS: 107-21-1

Industrial, inhalative, Long-term - local effects, 35 mg/m³

Industrial, dermal, Long-term - systemic effects, 106 mg/m³

general population, inhalative, Long-term - local effects, 7 mg/m³

general population, dermal, Long-term - systemic effects, 53 mg/m³

#### **PNEC**

#### Substance

Methyl-1H-benzotriazole, CAS: 29385-43-1

freshwater, 8 µg/L

seawater, 20 µg/L

sewage treatment plants (STP), 39.4 mg/L

sediment (freshwater), 117 µg/kg sediment dw

sediment (seawater), 292 µg/kg sediment dw

soil, 18.7 µg/kg soil dw

Ethylene glycol, CAS: 107-21-1

sediment (seawater), 3,7 mg/kg

sewage treatment plants (STP), 199,5 mg/l (AF=10)

soil, 1,53 mg/kg

sediment (freshwater), 37 mg/kg

seawater, 1 mg/L

freshwater, 10 mg/L

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#### 8.2 Exposure controls

Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of

hazardous substances.

**Eye protection** Safety glasses. (EN 166:2001)

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information

> 0,4 mm Nitrile rubber, >480 min (EN 374-1/-2/-3).

**Skin protection** Protective clothing (EN 340)

Other Personal protective equipment should be selected specifically for the working place,

depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Avoid contact with eyes and skin.

Do not inhale vapours.

Respiratory protection In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear

appropriate respiratory protection.

Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)

Thermal hazards none

Delimitation and monitoring of the

environmental exposition

Protect the environment by applying appropriate control measures to prevent or limit

emissions.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical stateliquidFormliquidColorred

**Odor** characteristic

Odour threshold No information available.

**pH-value** 7 - 8,5 (33%)

pH-value [1%] No information available.

**Boiling point or initial boiling point** 

and boiling range [°C]

120

Flash point [°C] >110 (DIN 51758)

Flammability yes

Lower explosion limitNo information available.Upper explosion limitNo information available.

Oxidising properties no

Vapour pressure/gas pressure [kPa] <0,01 (20°C)

Density [g/cm³] ca. 1,12 (DIN 51757) (20 °C / 68,0 °F)

Relative density not determined

Bulk density [kg/m³] not applicable

Solubility in water miscible

Solubility other solvents

Partition coefficient n-octanol/water

(log value)

No information available. No information available.

Kinematic viscosity 9,4 mm²/s (40°C)

Relative vapour density

Melting point [°C]

Auto-ignition temperature [°C]

Decomposition temperature [°C]

Particle characteristics

No information available.

No information available.

No information available.

9.2 Other information

Pour point: ca. -38 (50 Vol-% in H2O)



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### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No dangerous reactions known if used as directed.

#### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

#### 10.3 Possibility of hazardous reactions

No hazardous reactions known.

#### 10.4 Conditions to avoid

Strong heating.

#### 10.5 Incompatible materials

No hazardous reactions known.

#### 10.6 Hazardous decomposition products

No hazardous decomposition products known.



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#### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Based on the available information, the classification criteria are fulfilled.

Product

ATE-mix, oral, 526,2 mg/kg bw

Substance

Methyl-1H-benzotriazole, CAS: 29385-43-1

LD50, oral, Rat, 720 mg/kg (Lit.)

NOAEL, oral, Rat, 150 mg/kg bw/day

Ethylene glycol, CAS: 107-21-1

LD50, oral, Rat, 7712 mg/kg bw

ATE, oral, 500 mg/kg (Acute Tox. 4)

Potassium 3,5,5-trimethylhexanoate, CAS: 93918-10-6

LD50, oral, Rat, 1160 mg/kg bw, OECD 401

Acute dermal toxicity

Based on the available information, the classification criteria are not fulfilled.

Product

ATE-mix, dermal, >2000 mg/kg bw

Substance

Methyl-1H-benzotriazole, CAS: 29385-43-1

LD50, dermal, Rat, > 2000 mg/kg

Ethylene glycol, CAS: 107-21-1

LD50, dermal, mouse, > 3500 mg/kg bw

Acute inhalational toxicity

Based on the available information, the classification criteria are not fulfilled.

Product

ATE-mix, inhalation (vapour), >20 mg/L

Substance

Ethylene glycol, CAS: 107-21-1

LC50, inhalative, Rat, > 2,5 mg/L air, 6h

Serious eye damage/irritation

Irritant

Substance

Ethylene glycol, CAS: 107-21-1

Eye, Rabbit, In vivo study, non-irritating

Potassium 3,5,5-trimethylhexanoate, CAS: 93918-10-6

OECD 437, Causes serious eye damage.

Skin corrosion/irritation

Irritant

Substance

Ethylene glycol, CAS: 107-21-1

dermal, Rabbit, In vivo study, non-irritating

Potassium 3,5,5-trimethylhexanoate, CAS: 93918-10-6

OECD 431, corrosive

Respiratory or skin sensitisation

Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

dermal, Guinea pig, In vivo study, non-sensitizing

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Specific target organ toxicity —

single exposure

Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Substance

Ethylene glycol, CAS: 107-21-1

NOAEL, dermal, Dog, 2200 mg/kg bw/day, adverse effect observed

NOEL, oral, Rat, 150 mg/kg bw/day, OECD 408, adverse effect observed

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

in vitro, OECD 471, no adverse effect observed

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled. This product contains one or more substances of categorie Repr. 2 (CLP).

(CAS: 29385-43-1)

- Fertility

Substance

Ethylene glycol, CAS: 107-21-1

NOAEL, oral, Rat, > 1000 mg/kg bw/day, no adverse effect observed

- Development

Substance

Ethylene glycol, CAS: 107-21-1

NOAEL, oral, Rat, 500 mg/kg bw/day, no adverse effect observed

Carcinogenicity

Based on the available information, the classification criteria are not fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1

NOAEL, oral, Rat, 1000 mg/kg bw/day, In vivo study, no adverse effect observed

**Aspiration hazard** 

Based on the available information, the classification criteria are not fulfilled.

**General remarks** 

Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting

properties

Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information

none



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### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Ecological data of complete product are not available.

Substance		
Methyl-1H-benzotriazole, CAS: 29385-43-1		
LC50, (96h), Fish, 55 - 180 mg/L		
EC50, (48h), Invertebrates, 8.58 - 15.8 mg/L		
EC50, (72h), Algae, 29 - 75 mg/L		
NOEC, (21d), Invertebrates, 18.4 mg/L		
Ethylene glycol, CAS: 107-21-1		
LC50, (3d), Fish, 72.86 g/L		
LC50, (28d), Fish, 1,5 g/L		
EC50, (48h), Invertebrates, 100 mg/L		
EC50, (21d), Invertebrates, 33,911 g/L		
EC50, (4d), Invertebrates, 3,536 - 13 g/L		
Potassium 3,5,5-trimethylhexanoate, CAS: 93918-10-6		
NOEC, (48h), Daphnia magna, >100 mg/L		
NOEC, (72h), Algae, >100 mg/L		

#### 12.2 Persistence and degradability

Behaviour in environment

compartments

Behaviour in sewage plant

No information available.

Biological degradability

No information available.

Substance

Ethylene glycol, CAS: 107-21-1

(10d), 90 - 100 %, OECD 301 A, The product is readily biodegradable.

#### 12.3 Bioaccumulative potential

No information available.

Substance		
Ethylene glycol, CAS: 107-21-1		
BCF, 10		
log Pow, -1,36		
Potassium 3,5,5-trimethylhexanoate, CAS: 93918-10-6		
log Kow, ≤ 4,5, Does not bioaccumulate.		

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

#### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

#### 12.7 Other adverse effects

None known.



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#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**Product** 

Dispose of as hazardous waste.

Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended)

160114\*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110\* packaging containing residues of or contaminated by hazardous substances

#### **SECTION 14: Transport information**

14.1 UN number or ID number

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with

**IMDG** 

not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to

ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

**IMDG** 

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with

**IMDG** 

not applicable

Air transport in accordance with IATA not applicable

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#### 14.4 Packing group

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with

**IMDG** 

not applicable

Air transport in accordance with IATA not applicable

#### 14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN) no

Marine transport in accordance with

**IMDG** 

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Maritime transport in bulk according to IMO instruments

not applicable

#### **SECTION 15: Regulatory information**

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

**EEC-REGULATIONS** 2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

- Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

- Annex XIV (REACH) According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain

any substances  $\geq$  0.1% that are subject to authorisation.

- Annex XVII (REACH) According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1%

of substances with the following restrictions. 75

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to

any restrictions.

TRANSPORT-REGULATIONS ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)

NATIONAL REGULATIONS (UK): EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK

REACH; GB CLP.

- Observe employment restrictions

for people

Observe employment restrictions for young people.

- VOC (2010/75/CE) not relevant

#### 15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

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#### **SECTION 16: Other information**

#### 16.1 Hazard statements (SECTION 3)

H411 Toxic to aquatic life with long lasting effects.

H361d Suspected of damaging the unborn child.

H318 Causes serious eye damage.

H314 Causes severe skin burns and eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

H302 Harmful if swallowed.

#### 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises

dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par

voie de navigation intérieure

ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform Chemical Information Database

IVIS = In vitro irritation score

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading

LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value – time-weighted average TLV®STEL = Threshold limit value – short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

#### 16.3 Other information

Classification procedure Acute Tox. 4: H302 Harmful if swallowed. (Calculation method)

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.

(Calculation method)

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method) Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)

**Modified position** 1.3, 2.1, 2.2, 2.3, 3.2, 8.1, 8.2, 9.1, 9.2, 11.1, 11.2, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7,

15.1, 16.2, 16.3

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