# Ferdinand Bilstein GmbH + Co. KG

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not applicable



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SEC	CTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1	Product identifier			
		Gear oil 75W - 90		
		Article number: 32590		
1.2	Relevant identified uses of the s	ubstance or mixture and uses advised against		
1.2.1	1 Relevant uses			
		Lubricant		
123	2 Uses advised against			
		None known.		
1.3	Details of the supplier of the safe	atv data shoot		
1.5	Company	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 spawizies to			
	Address enquiries to Technical information	info@febi.com		
	Safety Data Sheet	info@febi.com		
1.4	Emergency telephone number			
	Advisory body	+49 (0)89-19240 (24h) (English)		
	Company	+49 2333 911-0		
SEC	CTION 2: Hazards identification			
2.1	2.1 Classification of the substance or mixture [REGULATION (GB) CLP]			
		No classification.		
2.2	Label elements			
		The product is required to be labelled in accordance with regulation CLP.		
	Hazard pictograms	none		
	Signal word	none		
	Hazard statements	none		
	Precautionary statements	none		
	Special labelling	EUH210 Safety data sheet available on request.		
		Contains: Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). EUH208 May produce an allergic reaction.		
2.3	Other hazards	· -		
	Physico-chemical hazards	No particular hazards known.		
	Environmental hazards	Does not contain any PBT or vPvB substances. Contains no ingredients with endocrine-disrupting properties.		
	Other hazards	No particular hazards known.		
SEC	CTION 3: Composition / Information	n on ingredients		
2.4	Substances			
3.1	JUDSIAIILES			

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#### 3.2 Mixtures

#### The product is a mixture.

Range [%]	Substance		
20 - < 50			
	CAS: 72623-87-1, EINECS/ELINCS: 276-738-4, EU-INDEX: 649-483-00-5, Reg-No.: 01-2119474889-13-X		
	GHS/CLP: Asp. Tox. 1: H304		
1 - < 4.5	5 Polysulfides, di-tert-Bu		
CAS: 68937-96-2, EINECS/ELINCS: 273-103-3, Reg-No.: 01-2119540515-43-XXXX			
	GHS/CLP: Skin Sens. 1: H317 - Aquatic Chronic 3: H412		
SCL [%]: >= 46: Skin Sens. 1B: H317			
0.1 - < 1	Magnesium metaborate		
	CAS: 13703-82-7	7, EINECS/ELINCS: 237-235-5, Reg-No.: 01-2120769073-53-XXXX	
GHS/CLP: Skin S		Sens. 1B: H317	
	SCL [%]: > 15: Skin Sens. 1B: H317		
1 - < 2.5	2.5 Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide amines, C12-14-alkyl (branched)		
EINECS/ELINCS:		: 931-384-6, Reg-No.: 01-2119493620-38	
	GHS/CLP: Acute	Tox. 4: H302 - Eye Dam. 1: H318 - Skin Sens. 1: H317 - Aquatic Chronic 2: H411	
	SCL [%]: > 50: Ey	ye Dam. 1: H318, >= 9.39: Skin Sens. 1B: H317, > 50: Eye Irrit. 2: H319	
Comment on component parts		Contains less than 3% w/w DMSO-extract (only for mineral oils) Substances of Very High Concern - SVHC: substances are not contained or are below 0.1 For full text of H-statements and R-phrases: see SECTION 16.	
TION 4: Firs	t aid measures		
Descriptior	of first aid measure	es	
General info	rmation	Change soaked clothing.	
Inhalation		Ensure supply of fresh air.	
		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 ear	
_,		to do. Continue rinsing.	
		If eye irritation persists: Get medical advice/attention.	
Ingestion		Consult a doctor immediately.	
		Do not induce vomiting.	
		Rinse out mouth and give plenty of water to drink.	
Most important symptoms and effects, both acute and delayed			
		Allergic reactions	
Indication of any immediate medical attention and special treatment needed			
	-	Treat symptomatically.	
		Forward this sheet to your doctor.	
TION 5. Fire	-fighting measures	•	
1011 3.1110	ngnung measures		
Extinguishing media			
0			

# Suitable extinguishing media Foam, dry powder, water spray jet, carbon dioxide Extinguishing media that must not be used Full water jet.

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5.2	Special hazards arising from the	substance or mixture	
		Risk of formation of toxic pyrolysis products. Carbon monoxide (CO) Sulphur oxides (SOx). Nitrogen oxides (NOx).	
5.3	Advice for firefighters		
	-	Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus.	
		Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.	
SEC	TION 6: Accidental release measu	ires	
6.1	Personal precautions, protective	e equipment and emergency procedures	
		High risk of slipping due to leakage/spillage of product. Forms slippery surfaces with water.	
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	3 Methods and material for containment and cleaning up		
		Take up with absorbent material (e.g. oil binder). Dispose of absorbed material in accordance within the regulations.	
6.4	Reference to other sections		
		See SECTION 8+13	
SEC	TION 7: Handling and storage		
7.1	Precautions for safe handling		
		No special measures necessary if used correctly. Use only in well-ventilated areas.	
		Use solvent-resistant equipment.	
		Do not eat, drink or smoke when using this product. After worktime and before work breaks the affected skin areas must be thoroughly cleaned.	
		Use barrier skin cream. Cloths contaminated with product should not be kept in trouser pockets.	
		Take off contaminated clothing and wash before reuse.	
		Contaminated work clothing should not be allowed out of the workplace.	
7.2	Conditions for safe storage, incl	uding any incompatibilities	
		Keep only in original container. Prevent penetration into the ground.	
		Do not store together with oxidizing agents.	
		Keep container tightly closed. Keep container in a well-ventilated place.	
7.3	Specific end use(s)		

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

#### 8.1 Control parameters

# Ingredients with occupational exposure limits to be monitored (GB)

Substance
1-Decene, homopolymer, hydrogenated
CAS: 68037-01-4, EINECS/ELINCS: 500-183-1, Reg-No.: 01-2119486452-34-XXXX
Long-term exposure: 5 mg/m <sup>3</sup> , OSHA PEL

DNEL

Substance
Polysulfides, di-tert-Bu, CAS: 68937-96-2
No DNEL values could be derived for the substance with respect to systemic effects.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
Industrial, dermal, Long-term - systemic effects, 970 µg/kg bw/day
Industrial, inhalative, Long-term - local effects, 5.58 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - systemic effects, 2.73 mg/m <sup>3</sup>
general population, inhalative, Long-term - local effects, 1.19 mg/m <sup>3</sup>
general population, inhalative, Long-term - systemic effects, 740 µg/kg bw/day
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
Industrial, dermal, Long-term - systemic effects, 12.5 mg/kg bw/d (AF=120)
Industrial, inhalative, Long-term - systemic effects, 4.28 mg/m <sup>3</sup> (AF=30)
general population, dermal, Long-term - systemic effects, 6.25 mg/kg bw/d (AF=240)
general population, oral, Long-term - systemic effects, 0.25 mg/kg bw/d (AF=600)
general population, inhalative, Long-term - systemic effects, 1.09 mg/m³ (AF=60)
Magnesium metaborate, CAS: 13703-82-7
Industrial, dermal, Long-term - systemic effects, 7.78 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 5.49 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 0.28 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 0.278 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 0.82 mg/m <sup>3</sup>

PNEC

Substance
Polysulfides, di-tert-Bu, CAS: 68937-96-2
There are no PNEC values established for the substance.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
oral (food), 9.33 mg/kg food
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
freshwater, 2.4 µg/L (AF=50)
oral (food), 10 mg/kg dw (AF=300)
soil, 1.17 µg/kg dw
sediment (seawater), 1.29 µg/kg dw
sediment (freshwater), 12.9 µg/kg dw
sewage treatment plants (STP), 24.33 mg/L (AF=100)
seawater, 0.24 µg/L (AF=500)

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lagnesium metaborate, CAS: 13703-82-7	
eshwater, 0.05 mg/L	
eawater, 0.05 mg/L	
ewage treatment plants (STP), 100 mg/L	
ediment (freshwater), 1.38 mg/kg sediment dw	
ediment (seawater), 1.38 mg/kg sediment dw	
ral (food), 1.67 mg/kg food	
pil, 0.247 mg/kg soil dw	

#### 8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. General exposure limit for oil mist should be noted. 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, >120 min (EN 374-1/-2/-3).
Skin protection	Light protective clothing.
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. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.
Respiratory protection	not applicable
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

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

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

	· · · · · · · · · · · · · · · · · · ·
Physical state	liquid
Form	liquid
Color	brown
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	210 (EN ISO 2592 (COC))
Flammability (solid, gas) [°C]	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/cm³]	0.86 (DIN 51757) (15 °C / 59,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	miscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	113.9 mm²/s (40°C) (DIN 51562)
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature [°C]	not applicable
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

9.2 Other information

No information available.

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

#### 10.1 Reactivity

See SECTION 10.3.

#### 10.2 Chemical stability

The product is stable under standard conditions.

#### 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

#### 10.4 Conditions to avoid

No special measures necessary.

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#### 10.5 Incompatible materials

Strong oxidizing agent. Strong basic compounds Strong acids.

#### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

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

Product

Product

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

#### Acute oral toxicity

ATE-mix, oral, > 5000 mg/kg	bw

Substance
Polysulfides, di-tert-Bu, CAS: 68937-96-2
No information available.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LD50, oral, Rat, 5000 mg/kg bw
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
LD50, oral, Rat, 2000 mg/kg
Magnesium metaborate, CAS: 13703-82-7
LD50, oral, Rat, >2000 mg/kg bw (OECD 420)

#### Acute dermal toxicity

dermal, Based on the available information, the classification criteria are not fulfilled.	
Substance	
Polysulfides, di-tert-Bu, CAS: 68937-96-2	
No information available.	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1	
LD50, dermal, Rabbit, 2000 - 5000 mg/kg bw	
Magnesium metaborate, CAS: 13703-82-7	
LD50, dermal, Rat, 2000 mg/kg bw	

#### Acute inhalational toxicity

#### Product

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

Substance
Polysulfides, di-tert-Bu, CAS: 68937-96-2
No information available.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
LC50, inhalative, Rat, 2.18 - 5.53 mg/L air, 4h

Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled. Non-irritant. Classification was carried out based on substance-specific concentration limits.
Skin corrosion/irritation	Toxicological data of complete product are not available. No classification. Calculation method
Respiratory or skin sensitisation	Non-sensitizing. On basis of test data
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity —	Based on the available information, the classification criteria are not fulfilled.

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Substance		
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1		
NOAEL, dermal, Rat, 30 - 2000 mg/kg bw/day		
NOAEC, inhalative, Rat, 980 mg/m <sup>3</sup> air		
LOAEL, oral, Rat, 125 mg/kg bw/day		
Magnesium metaborate, CAS: 13703-82-7		
NOAEL, oral, Rat, 1	125 mg/kg bw/day	
	Based on the available information, the classification criteria are not fulfilled.	
city	Based on the available information, the classification criteria are not fulfilled.	
	Based on the available information, the classification criteria are not fulfilled.	
	Based on the available information, the classification criteria are not fulfilled.	
	Toxicological data of complete product are not available. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.	
other hazards		
ing properties	Contains no ingredients with endocrine-disrupting properties.	
	NOAEL, dermal, Ra NOAEC, inhalative, LOAEL, oral, Rat, 1 Magnesium metabo NOAEL, oral, Rat, 7 city	

#### 12.1 Toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Polysulfides, di-tert-Bu, CAS: 68937-96-2
EC50, (72h), Algae, 100 mg/L
EL50, (48h), Invertebrates, 63 mg/L
NOELR, (72h), Algae, 100 mg/L
NOELR, (48h), Invertebrates, 18 mg/L
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, CAS: 72623-87-1
NOELR, (14d), fish, 1 g/L
LL50, (4d), Invertebrates, 10 g/L
LL50, (4d), fish, 100 mg/L
Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
LC50, (96h), fish, 24 mg/l
EC50, (48h), Daphnia magna, 91.4 mg/l
Magnesium metaborate, CAS: 13703-82-7
EL50, (72h), Pseudokirchneriella subcapitata, >50mg/l (OECD 201)
EL50, (24h), Daphnia magna, >50mg/l (OECD 202)
LL50, (96h), Oncorhynchus mykiss, >50mg/l (OECD 203)

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#### 12.2 Persistence and degradability

Behaviour in environment compartments	
Behaviour in sewage plant	not determined
Biological degradability	not determined

#### 12.3 Bioaccumulative potential

No information available.

#### 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

Ecological data of complete product are not available. Do not discharge product unmonitored into the environment or into the drainage.

#### **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

		In according to RoHS! Disposal in an incineration plant in accordance with the regulations of the local authorities.	
	Waste no. (recommended)	130205* mineral-based non-chlorinated engine, gear and lubricating oils	
	Contaminated packaging	ackaging	
		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

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14.2	UN proper shipping name Transport by land according to ADR/RID	NO DANGEROUS GOODS
	Inland navigation (ADN)	NO DANGEROUS GOODS
	Marine transport in accordance with IMDG	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 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
14.4	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	no
	Air transport in accordance with IATA	no
14.6	Special precautions for user	
	Relevant information under SECTION 6 t	o 8.

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

not applicable

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

.1 Safety, health and environmental regulations/legislation specific for the substance or mixture		
EEC-REGULATIONS	2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014	
TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)	
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.	
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. 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.	
SECTION 16: Other information		

# 16.1 Hazard statements (SECTION 3)

H412 Harmful to aquatic life with long lasting effects.

- H411 Toxic to aquatic life with long lasting effects.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.

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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** 

Modified position

SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties. SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.