grease Article number 03630



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

1.1 Product identifier

grease

Article number: 03630

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

1.2.1 Relevant uses

Lubricant

1.2.2 Uses advised against

None known.

.3 Details of the supplier of the safety data sheet

Company Ferdinand Bilstein GmbH + Co. KG

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
Safety Data Sheet info@febi.com

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Repr. 2: H361f Suspected of damaging fertility.

2.2 Label elements

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200

(HCS 2012)

Hazard pictograms

Signal word WARNING

Contains: Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

Hazard statements H361f Suspected of damaging fertility.

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

P102 Keep out of reach of children.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container to in accordance with local/regional/national/international

regulation.

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2.3 Other hazards

Physico-chemical hazards No particular hazards known.

Environmental hazardsDoes not contain any PBT or vPvB substances.

Contains no ingredients with endocrine-disrupting properties.

Other hazards None

This product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200.

SECTION 3: Composition / Information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
1 - < 5	Dilithium azelate
	CAS: 38900-29-7
0,1 - < 1	5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione
	CAS: 72676-55-2
0,1 - < 1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
	CAS: 68411-46-1

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

All chemical substances in this material are included on or exempted from listing on the

IECSC Inventory.

Contains less than 3% w/w DMSO-extract (only for mineral oils)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Change soaked clothing.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact When in contact with the skin, clean with soap and 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 Seek medical advice immediately.

Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Forward this sheet to the doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

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) Nitrogen oxides (NOx).

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

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

Forms slippery surfaces with water.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

Take up mechanically.

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

No special measures necessary if used correctly.

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

Use barrier skin cream.

Wash face and/or hands before break and end of work.

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

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

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

Do not store together with oxidizing agents.

Keep container tightly closed.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls/personal protection

Substance

Substance

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

Not applicable

DNEL

0400141100		
Dilithium azelate, CAS: 38900-29-7		
Industrial, dermal, Acute - local effects, 46 μg/cm ²		
general population, dermal, Acute - systemic effects, 23 μg/cm²		
5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2		
Industrial, inhalative, Long-term - systemic effects, 3.29 mg/m³ (AF=75)		
Industrial, dermal, Long-term - systemic effects, 0.93 mg/kg bw/d (AF=300)		
general population, dermal, Long-term - systemic effects, 0.33 mg/kg bw/d (AF=600)		
general population, inhalative, Long-term - systemic effects, 0.56 mg/m³ (AF=150)		
general population, oral, Long-term - systemic effects, 0.17 mg/kg bw/d (AF=600)		
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1		
Industrial, inhalative, Long-term - systemic effects, 0,31 mg/m³		
Industrial, dermal, Long-term - systemic effects, 0,44 mg/kg bw/day		
general population, inhalative, Long-term - systemic effects, 0,08 mg/m³		
general population, dermal, Long-term - systemic effects, 0,22 mg/kg bw/day		
general population, oral, Long-term - systemic effects, 0,05 mg/kg bw/day		

PNEC

0.000.000		
Dilithium azelate, CAS: 38900-29-7		
freshwater, 23 μg/L		
seawater, 2,3 µg/L		
5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2		
freshwater, 0.003 mg/L (AF=1000)		
seawater, 0 mg/L (AF=10 000)		
sewage treatment plants (STP), 0.31 mg/L (AF=10)		
sediment (freshwater), 0.039 mg/kg dw		
sediment (seawater), 0.004 mg/kg dw		
soil, 0.166 mg/kg soil dw		
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1		
freshwater, 0,034 mg/L		
seawater, 0,003 mg/L		
sewage treatment plants (STP), 10 mg/L		
sediment (freshwater), 0,446 mg/kg sediment dw		
sediment (seawater), 0,045 mg/kg sediment dw		
soil, 17,6 mg/kg soil dw		
oral (food), 0,833 mg/kg food		

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8.2 Exposure controls

Additional advice on system design Ensure adequate ventilation on workstation.

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 If there is a risk of splashing:

safety glasses (EN 166:2001)

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

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

Avoid contact with eyes and skin.

Respiratory protection Not required under normal conditions.

Thermal hazards No information available.

Delimitation and monitoring of the

environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid Form pasty Color black

Odor characteristic Odor threshold Not applicable pH-value Not applicable pH-value [1%] Not applicable

Boiling point or initial boiling point

and boiling range [°C]

No information available.

Flash point [°C] Not applicable

Flammability

No information available. Lower explosion limit No information available. Upper explosion limit

Oxidizing properties

Vapor pressure/gas pressure [kPa] No information available.

Density [g/cm³] 0,94 (DIN 51757) (25°C / 77,0°F)

Relative density Not determined Bulk density [kg/m³] Not applicable Solubility in water immiscible

Solubility other solvents No information available. Partition coefficient n-octanol/water

(log value)

No information available.

Kinematic viscosity NGLI 1

Relative vapour density 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.

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9.2 Other information

Drop point: 220°C - 300°C

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

Reactions with acids, alkalies and oxidizing agents.

10.4 Conditions to avoid

No special measures necessary.

10.5 Incompatible materials

Oxidizing agent Strong bases. strong acids

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product

ATE-mix, oral, 59 363 mg/kg bw

Substance

Dilithium azelate, CAS: 38900-29-7

LD50, oral, Rat, 300 mg/kg bw

5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2

LD50, oral, Rat, > 2000 mg/kg

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

LC50, oral, Rat, > 5000 mg/kg, OECD 401

Acute dermal toxicity

Product

dermal, Based on the information available, the classification criteria have not been fulfilled.

Substance

Dilithium azelate, CAS: 38900-29-7

LD50, dermal, Rat, > 2000 mg/kg bw

5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2

LD50, dermal, Rabbit, > 2000 mg/kg

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

LD50, dermal, Rat, > 2000 mg/kg, OECD 402

Acute inhalational toxicity

Product

inhalative, Based on the information available, the classification criteria have not been fulfilled.

Serious eye damage/irritation Based on the information available, the classification criteria have not been fulfilled.

Substance

Dilithium azelate, CAS: 38900-29-7

Rabbit, OECD 406, non-irritating

5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2

Eye, non-irritating

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

Eye, OECD 405, non-irritating

Skin corrosion/irritation Based on the information available, the classification criteria have not been fulfilled.

Substance

Dilithium azelate, CAS: 38900-29-7

dermal, non-irritating

5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2

dermal, non-irritating

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

dermal, non-irritating

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Respiratory or skin sensitisation

Based on the information available, the classification criteria have not been fulfilled.

Substance

Dilithium azelate, CAS: 38900-29-7

dermal, mouse, OECD 429, non-sensitizing

5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2

dermal, sensitising

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

dermal, Guinea pig, OECD 406, non-sensitizing

Specific target organ toxicity — single exposure

Based on the information available, the classification criteria have not been fulfilled.

Specific target organ toxicity — repeated exposure

Based on the information available, the classification criteria have not been fulfilled.

Substance

Dilithium azelate, CAS: 38900-29-7

NOAEL, dermal, Rat, 298 mg/kg bw/day (systemic effects), no adverse effect observed

NOAEL, dermal, Rat, 230 µg/cm² (local effects), adverse effect observed

5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2

NOAEL, oral, Rat, 300 mg/kg bw/day

Mutagenicity

Based on the information available, the classification criteria have not been fulfilled.

Substance

Dilithium azelate, CAS: 38900-29-7

OECD 471, no adverse effect observed

5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2

in vitro, positive

in vivo, negativ

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

in vitro, negativ

Reproduction toxicity

Suspected of damaging fertility.

Based on the information available, the classification criteria have been fulfilled.

Calculation method

- Fertility

Substance

Dilithium azelate, CAS: 38900-29-7

NOAEL, Rat, 298,5 mg/kg bw/d (Effect on fertility), no adverse effect observed

5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2

NOAEL, oral, Rat, 300 mg/kg bw/d (Effect on fertility)

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

NOAEL, oral, Rat, 54 mg/kg bw/day, adverse effect observed

- Development

Substance

Dilithium azelate, CAS: 38900-29-7

NOAEL, Rat, 298,5 mg/kg bw/d (Effect on developmental toxicity, no adverse effect observed

Carcinogenicity

Based on the information available, the classification criteria have not been fulfilled.

Aspiration hazard

Based on the information available, the classification criteria have not been fulfilled.

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General remarks



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Frequent persistent contact with the skin can cause dermatitis.

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.

SECTION 12: Ecological information

12.1 Toxicity

Product

Based on the information available, the classification criteria have not been fulfilled.

Substance

Dilithium azelate, CAS: 38900-29-7

LC50, (96h), fish, 100 mg/L

EC50, (48h), Crustacea, 100 mg/L

EC50, (72h), Algae, 100 mg/L

5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2

LC50, (96h), Pimephales promelas, > 454 mg/L

EC50, (48h), Daphnia magna, 3 mg/L

EC50, (72h), Pseudokirchneriella subcapitata, 20 mg/L

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

LC50, (96h), fish, > 100 mg/kg (OECD 203)

EC50, (72h), Algae, > 100 mg/kg (OECD 201)

EC50, (48h), Daphnia magna, 51 mg/kg (OECD 202)

12.2 Persistence and degradability

Behaviour in environment

compartments

Not determined

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

Ecotoxicological data are not available.

Do not discharge product unmonitored into the environment or into the drainage.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

In according to RoHS!

Coordinate disposal with the authorities if necessary.

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

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

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

RCRA Hazard Class (40CFR 261)

Waste must be disposed of in accordance with federal, state and local environmental control

regulations. Consult your local or regional authorities.

SECTION 14: Transport

14.1 UN 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

DOT Road Shipment Information (49 Not applicable

CFR)

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"

DOT Road Shipment Information (49 Not applicable

CFR)

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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

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable CFR)

14.4 Packing group

Transport by land according to ADR/RID

Inland navigation (ADN)

Not applicable

Not applicable

Marine transport in accordance with Not applicable

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable CFR)

14.5 Environmental hazards

Transport by land according to

ADR/RID

No

Inland navigation (ADN)

No

Marine transport in accordance with No

IMDG

Air transport in accordance with IATA No

DOT Road Shipment Information (49 No

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

US Regulations

National regulations 29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA,

TSCA, California - Prop. 65

- SARA, 302 This product does not contain any ingredients regulated under this list. - SARA, 311 This product does not contain any ingredients regulated under this list. - SARA, 313 This product does not contain any ingredients regulated under this list.

- CA Proposition 65 No components require labeling under California Proposition 65.

- TSCA All chemical substances in this material are included on or exempted from listing on the TSCA

Inventory.

- FDA

American Conference of

Governmental Industrial Hygienists -**ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcino-gen by ACGIH.

Cancer IARC

International Agency for Research on No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

National Toxicology Program - NTP No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

HAP-VOC

Transport-regulations DOT-Classification, ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

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 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;

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;

CAS = Chemical Abstracts Service;

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;

CFR = Code of Federal Regulations;

CPR = Controlled Products Regulations;

DMEL = Derived Minimum Effect Level;

DNEL = Derived No Effect Level;

DOT = Department of Transportation;

EC50 = Median effective concentration;

EPA = Environmental Protection Agency;

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;

IARC = International Agency of Research on Cancer;

IATA = International Air Transport Association;

TSCA = Toxic Substance Control Act;

HMIS = Hazardous Materials Identification System;

NFPA = National Fire Protection Association;

NIOSH = National Institute for Occupational Safety and Health;

OSHA = Occupational Safety and Health Administration;

LC50 = Lethal concentration, 50%;

LD50 = Median lethal dose, 50%;

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

PBT = Persistent, Bioaccumulative and Toxic substance;

PNEC = Predicted No-Effect Concentration;

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;

SARA = Superfund Amendments and Reauthorization Act;

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;

16.2 Ratings

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NFPA Ratings



TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 2*- Moderate chronic Hazard RIGHT, REACTIVITY: 0 - Minimal Hazard BOTTOM, SPECIAL NOTICE:

HMIS Ratings



- 2*- Moderate chronic Hazard
- 1 Slight Hazard
- 0 Minimal Hazard
- B Safety Glasses and Gloves

PERSONAL PROTECTION:

- A Safety Glasses
- B Safety Glasses and Gloves
- C Safety Glasses, Gloves and Protection Apron
- D Face Shield, Gloves and Protection Apron
- E Safety Glasses, Gloves and Dust Respirator
- F Safety Glasses, Gloves, Protection Apron and Dust Respirator
- G Safety Glasses, Gloves and Vapor Respirator.
- H Splash Goggles, Gloves, Protection Apron and Vapor Respirator.
- I Safety Glasses, Gloves, Dust Respirator and Vapor Respirator.
- J Splash Goggles, Gloves, Protection Apron, Dust Respirator and Vapor Respirator.
- K Airline Mask or Hood, Gloves, Full Suit and Boots.
- X Personal protection rating to be supplied by user depending on use conditions

Modified position

1.3, 3.2, 8.1, 9.1, 10.2, 11.1, 11.2, 12.6, 12.7, 15.1, 16.2, 16.3

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