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

1.1 Product identifier

Air Springs

1001559, 1001563, 1001568, 1001569, 1001571, 1001575, 1001576, 1001577, 1001578, 1008826, 1008828, 1008830, 1008831, 1008833, 1008839, 1008840, 1008841, 1008842, 1008843, 1008844, 1008845, 1008846, 1008847, 1008848, 1001557, 1001558, 1001561, 1001570, 1001572, 1001573, 1001574, 1001579, 1001580, 1001581, 1001607, 1001608, 1001609, 1001610, 1001611, 1008827, 1008829, 1008849, 1001553, 1001550, 1008853, 1001552, 1001554

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

1.2.1 Relevant uses

See product designation

1.2.2 Uses advised against

None known.

1.3 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 Call NHS 111 or a doctor

SECTION 2: Hazards identification

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

Press. Gas: H280 Contains gas under pressure; may explode if heated.
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

This product is an article and therefore it does not require labelling according to regulations REACH/CLP.

2.3 Other hazards

Human health hazards The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Environmental hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further 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 an article.

Range [%]	Substance
50 - <100	White mineral oil (petroleum)
	CAS: 8042-47-5, EINECS/ELINCS: 232-455-8, Reg-No.: 01-2119487078-27-XXXX
	GHS/CLP: Asp. Tox. 1: H304
10 - <20	2,6-di-tert-butyl-p-cresol
	CAS: 128-37-0, EINECS/ELINCS: 204-881-4, Reg-No.: 01-2119555270-46-XXXX
	GHS/CLP: Aquatic Chronic 1: H410 - Aquatic Acute 1: H400, M-Factor (acute): 1 , M-Factor (chronic): 1
<2,5	Nitrogen
	CAS: 7727-37-9, EINECS/ELINCS: 231-783-9
	GHS/CLP: Press. Gas (Compressed gas): H280
<1	hydrogen
	CAS: 1333-74-0, EINECS/ELINCS: 215-605-7, EU-INDEX: 001-001-00-9
	GHS/CLP: Flam. Gas 1A: H220 - Press. Gas: H280

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 Change soaked clothing.

Inhalation not applicable

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 Get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide.
Foam.
Water spray jet.

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.

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

No special measures necessary.

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

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.

Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Protect from heat/overheating and from sun.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (UK)

not relevant

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

not relevant

DNEL

Substance
White mineral oil (petroleum), CAS: 8042-47-5
Industrial, dermal, Long-term - systemic effects, 217,05 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 164,56 mg/m³
general population, inhalative, Long-term - systemic effects, 34,78 mg/m³
general population, dermal, Long-term - systemic effects, 93,02 mg/kg bw/day
general population, oral, Long-term - systemic effects, 25 mg/kg bw/day
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
Industrial, inhalative, Long-term - systemic effects, 3,5 mg/m³
Industrial, dermal, Long-term - systemic effects, 0,5 mg/kg
general population, inhalative, Long-term - systemic effects, 0,86 mg/m³
general population, dermal, Long-term - systemic effects, 0,25 mg/kg
general population, oral, Long-term - systemic effects, 0,25 mg/kg

PNEC

Substance
White mineral oil (petroleum), CAS: 8042-47-5
There are no PNEC values established for the substance.
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
freshwater, 0,199 µg/l
seawater, 0,02 µg/l
sewage treatment plants (STP), 0,17 mg/l
sediment (freshwater), 0,0996 mg/kg
sediment (seawater), 0,00996 mg/kg
soil, 0,04769 mg/kg
oral (food), 8,33 mg/kg

8.2 Exposure controls

Additional advice on system design	No special measures necessary.
Eye protection	No special measures necessary.
Hand protection	In full contact: 0,4 mm; butyl rubber, > 120 min (EN 374) The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	light protective clothing
Other	Avoid contact with eyes and skin.
Respiratory protection	No special measures necessary.
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
Form	Gas cartridge
Color	not determined
Odor	characteristic
Odour threshold	not relevant
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	316 (Liquid)
Flash point [°C]	164 (Liquid)
Flammability	Combustible
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not relevant
Density [g/cm³]	not determined
Relative density	not determined
Bulk density [kg/m³]	not determined
Solubility in water [g/L]	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	not relevant
Kinematic viscosity	14,3 mm²/s (Liquid)
Relative vapour density	not applicable
Melting point [°C]	not applicable
Auto-ignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined
Particle characteristics	not applicable

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Heat causes increase in pressure and risk of bursting.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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 not fulfilled.

Substance
White mineral oil (petroleum), CAS: 8042-47-5
LD50, oral, Rat, > 5000 mg/kg, OECD 401
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
LD50, oral, Rat, > 5000 mg/kg bw, OECD 401

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

Substance
White mineral oil (petroleum), CAS: 8042-47-5
LD50, dermal, Rabbit, > 2000 mg/kg, OECD 402
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
LD50, dermal, Rat, > 2000 mg/kg bw, OECD 402

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

Substance
White mineral oil (petroleum), CAS: 8042-47-5
LC50, inhalative, Rat, 5 mg/L/4h, OECD 403

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

Substance
White mineral oil (petroleum), CAS: 8042-47-5
no adverse effect observed
Rabbit (eye), OECD 405, non-irritating
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
Rabbit (eye), OECD 405, non-irritating

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

Substance
White mineral oil (petroleum), CAS: 8042-47-5
Rabbit, OECD 404, non-irritating
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
Rabbit, OECD 404, non-irritating

Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled.

Substance
White mineral oil (petroleum), CAS: 8042-47-5
Guinea pig, OECD 406, non-sensitizing
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
Human, non-sensitizing

Specific target organ toxicity — single exposure Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity — repeated exposure Based on the available information, the classification criteria are not fulfilled.

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

Substance
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
In vitro study, negative
In vivo study, negative

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

- Fertility

Substance
White mineral oil (petroleum), CAS: 8042-47-5
NOAEL, oral, Rat, 1000 mg/kg bw/d, no adverse effect observed

- Development No information available.

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

Substance
White mineral oil (petroleum), CAS: 8042-47-5
NOAEL, oral, Rat, 1200 mg/kg bw/day, no adverse effect observed

Aspiration hazard Based on available data, the classification criteria are met.

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.2.2 Other information none

SECTION 12: Ecological information

12.1 Toxicity

Ecological data of complete product are not available.
Based on the available information, the classification criteria are fulfilled.

Substance
White mineral oil (petroleum), CAS: 8042-47-5
Microorganisms, LOEL < 2000 mg/l/93d
LL50, (96h), Oncorhynchus mykiss, > 100 mg/l, OECD 203
LL50, (48h), Daphnia magna, > 100 mg/l, OECD 202
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
LC50, (96h), Fish, 0,199 mg/l
EC50, (48h), Daphnia magna, 0,48 mg/l, OECD 202
EC50, (72h), Pseudokirchneriella subcapitata, > 0,24 mg/l, OECD 201
EC50, (21d), Daphnia magna, 0,096 mg/l, OECD 211
NOEC, (21d), Daphnia magna, 0,069 mg/l, OECD 211
NOEC, (72h), Pseudokirchneriella subcapitata, 0,24 mg/l, OECD 201
NOEC, Oryzias latipes, 0,053 mg/l, (30d), OECD 210
NOEC, Fish, >= 23,8 mg/l, (70d), OECD 210
ErC50, (24h), Activated sludge, 1,7 mg/l

12.2 Persistence and degradability

Behaviour in environment compartments No information available.

Behaviour in sewage plant No information available.

Biological degradability No information available.

Substance
White mineral oil (petroleum), CAS: 8042-47-5
(28d), 31,13 %, Inherently biologically degradable
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
The product is not biodegradable.

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

Substance
White mineral oil (petroleum), CAS: 8042-47-5
log Kow, > 3,5
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
BCF, (28d), 330 - 1800
log Pow, 5,2

12.4 Mobility in soil

not relevant

Substance
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
Koc, 8183

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

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

None known.

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

For recycling, consult manufacturer.

Waste no. (recommended) 200140

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150102

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID 3164

Inland navigation (ADN) 3164

Marine transport in accordance with IMDG 3164

Air transport in accordance with IATA 3164

14.2 UN proper shipping name

Transport by land according to ADR/RID	Articles, pressurized, pneumatic
- Classification Code	6A
- Label	
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 3 (E)
Inland navigation (ADN)	Articles, pressurized, pneumatic
- Classification Code	6A
- Label	
Marine transport in accordance with IMDG	Articles, pressurized, pneumatic
- EMS	F-C, S-V
- Label	
- IMDG LQ	0,12 l
Air transport in accordance with IATA	Articles, pressurized, pneumatic
- Label	

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	2
Inland navigation (ADN)	2
Marine transport in accordance with IMDG	2.2
Air transport in accordance with IATA	2

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 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) 2024/573; (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 ≥ 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. 40
TRANSPORT-REGULATIONS	ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2026, 67th Edition)
NATIONAL REGULATIONS (UK):	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.
- Observe employment restrictions for people	no
- VOC (2010/75/CE)	not relevant

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H220 Extremely flammable gas.
H280 Contains gas under pressure; may explode if heated.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H304 May be fatal if swallowed and enters airways.

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

Press. Gas: H280 Contains gas under pressure; may explode if heated. (On basis of test data)
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Calculation method)
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

Modified position

none

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