Ferdinand Bilstein GmbH + Co. KG

Date printed 09.05.2025, Revision 09.05.2025



Version 5.0. Supersedes version: 4.0 Page 1 / 10

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

1.1 Product identifier

rust remover

Article number: 200002, 200003 UFI: AT1P-WR2R-P509-WMRH

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

1.2.1 Relevant uses

Rust removing agent

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

SECTION 2: Hazards identification

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

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if

heated.

STOT SE 3: H336 May cause drowsiness or dizziness.

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.

2.2 Label elements

Signal word

Hazard pictograms

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

DANGER

Contains: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hazard statements H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated. H336 May cause drowsiness or dizziness.

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

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

moking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/national regulation.

P261 Avoid breathing spray.

Special labelling EUH066 Repeated exposure may cause skin dryness or cracking.

Cleaner, 648/2004/CE, contains: >=30% aliphatic hydrocarbons

Ferdinand Bilstein GmbH + Co. KG Date printed 09.05.2025, Revision 09.05.2025





2.3 Other hazards

Physico-chemical hazards Heat causes increase in pressure and risk of bursting.

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 |
|-----------|--|
| 40 - < 50 | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics |
| | CAS: 64742-48-9, EINECS/ELINCS: 919-857-5 |
| | GHS/CLP: Asp. Tox. 1: H304 - Flam. Liq. 3: H226 - STOT SE 3: H336 - EUH066 |

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

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 Take off contaminated clothing and wash before reuse.

Inhalation Ensure supply of fresh air.

Remove the victim into fresh air and keep him calm. In the event of symptoms seek medical treatment.

Skin contact In case of contact with skin wash off immediately 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. Rinse out mouth and give plenty of water to drink.

Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects Headache Vertigo Tiredness

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Ingestion

Suitable extinguishing media Carbon dioxide.

Water spray jet. Dry powder. Foam.

Extinguishing media that must not

be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

Bursting aerosols can be forcibly projected from a fire.

Risk of formation of toxic pyrolysis products.

Not combusted hydrocarbons. Carbon monoxide (CO). Carbon dioxide (CO2)

Ferdinand Bilstein GmbH + Co. KG

Date printed 09.05.2025, Revision 09.05.2025



Version 5.0. Supersedes version: 4.0

Page 3 / 10

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Do not inhale explosion and/or combustion gases.

Cool containers at risk with water spray jet.

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

Keep away from all sources of ignition.

Ensure adequate ventilation.

Wear suitable protective equipment. For personal protection see SECTION 8.

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.

Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder).

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

Use only in well-ventilated areas.

Avoid spraying in enclosed areas.

Avoid contact with eyes and skin. Use personal protective equipment.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50

°C.

Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Keep away from open flames, hot surfaces and sources of ignition.

Do not smoke.

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

Take off contaminated clothing and wash before reuse.

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.

Do not store together with oxidizing agents.

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

Keep in a cool place, heat causes increase in pressure and risk of bursting.

Protect from heat/overheating and from sun. Keep container in a well-ventilated place.

7.3 Specific end use(s)

See product use, SECTION 1.2

ebi

Ferdinand Bilstein GmbH + Co. KG

Date printed 09.05.2025, Revision 09.05.2025

Version 5.0. Supersedes version: 4.0

Page 4 / 10

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (UK)

Substance

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

CAS: 64742-48-9, EINECS/ELINCS: 919-857-5

Long-term exposure: 800 mg/m³

Petroleum gases, liquefied (< 0,1% 1,3-butadiene)

CAS: 68476-85-7, EINECS/ELINCS: 270-704-2, EU-INDEX: 649-202-00-6

Long-term exposure: 1000 ppm, 1750 mg/m³, Carc (only applies if LPG contains more than 0.1% of buta-1,3-diene)

Short-term exposure (15-minute): 1250 ppm, 2180 mg/m³

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

not relevant

DNEL

Substance

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9

Industrial, dermal, Long-term - systemic effects, 300 mg/kg bw/d

Industrial, inhalative, Acute - systemic effects, 1500 mg/m³

general population, inhalative, Long-term - systemic effects, 300 mg/m³ (24h)

general population, oral, Long-term - systemic effects, 300 mg/kg bw/d

general population, dermal, Long-term - systemic effects, 300 mg/kg bw/d

PNEC

Substance

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9

There are no PNEC values established for the substance.

8.2 Exposure controls

Eye protection Safety glasses. (EN 166:2001)

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

information.
In full contact:

in full contact:

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

In splash contact:

> 0,1 mm, butyl rubber, > 120 min (EN 374)

Skin protection Solvent-resistant protective clothing (EN 340)

Other Do not breathe vapour/spray.

Avoid contact with eyes and skin.

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.

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

appropriate respiratory protection.

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

Thermal hazards not applicable

Delimitation and monitoring of the

environmental exposition

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

emissions

Ferdinand Bilstein GmbH + Co. KG

Date printed 09.05.2025, Revision 09.05.2025

Version 5.0. Supersedes version: 4.0

Page 5 / 10

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state liquid **Form** aerosol Color colourless Odor characteristic **Odour threshold** not determined pH-value not applicable pH-value [1%] not applicable Boiling point or initial boiling point not applicable

and boiling range [°C]

Flash point [°C] not applicable

Flammability yes

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

Oxidising properties

Vapour pressure/gas pressure [kPa] No information available. Density [g/cm³] No information available.

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

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

(log value)

No information available.

Kinematic viscosity not applicable Relative vapour density not applicable Melting point [°C] not applicable Auto-ignition temperature [°C] not applicable Decomposition temperature [°C] not applicable not applicable Particle characteristics

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed. Heat causes increase in pressure and risk of bursting.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition. Avoid temperatures above 50°C.

10.5 Incompatible materials

No information available.

Ferdinand Bilstein GmbH + Co. KG

Date printed 09.05.2025, Revision 09.05.2025





10.6 Hazardous decomposition products

Flammable gases/vapours.

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9

LD50, oral, Rat, 8000 mg/kg bw (Lit.)

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

Substance

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9

LD50, dermal, Rat, 4000 mg/kg bw (Lit.)

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

Substance

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9

LC50, inhalative, Rat, >18,5 mg/L (4h) (Lit.)

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

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

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

Specific target organ toxicity — Based on the available information, the classification criteria are fulfilled. single exposure

Vapours may cause drowsiness and dizziness. Calculation method

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

repeated exposure

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

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

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

May be fatal if swallowed and enters airways.

Calculation method **General remarks**

Toxicological data of complete product are not available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting

properties

Does not contain a relevant substance that meets the classification criteria.

11.2.2 Other information none

SECTION 12: Ecological information

Product

12.1 Toxicity

Ecological data of complete product are not available.

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

Substance

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-48-9

LC50, (96h), Oncorhynchus mykiss, >1000 mg/L (Lit.)

EC50, (48h), Daphnia magna, >1000 mg/L (Lit.)

EC50, (72h), Pseudokirchneriella subcapitata, >1000 mg/L (Lit.)

ebi bilstein

Ferdinand Bilstein GmbH + Co. KG

Date printed 09.05.2025, Revision 09.05.2025

Version 5.0. Supersedes version: 4.0

Page 7 / 10

12.2 Persistence and degradability

Behaviour in environment

compartments

No information available.

Behaviour in sewage plant Biological degradability No information available.

No surfactants are contained.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Endocrine disrupting properties

Does not contain a relevant substance that meets the classification criteria.

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

Dispose of as hazardous waste.

Waste no. (recommended)

160504* gases in pressure containers (including halons) containing dangerous substances

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

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

Waste no. (recommended) 150104

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

1950

ADR/RID

Inland navigation (ADN) 1950

Marine transport in accordance with

IMDG

1950

Air transport in accordance with IATA 1950

Ferdinand Bilstein GmbH + Co. KG

Date printed 09.05.2025, Revision 09.05.2025

Version 5.0. Supersedes version: 4.0

Page 8 / 10

14.2 UN proper shipping name

Transport by land according to ADR/RID

- Classification Code

5F

- Label



Aerosols

- ADR LQ

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (D)

Inland navigation (ADN) - Classification Code

Aerosols 5F

- Label



Marine transport in accordance with

IMDG

- EMS

F-D, S-U

- Label

- IMDG LQ

Air transport in accordance with IATA Aerosols, flammable

- Label



14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

Inland navigation (ADN)

2

Marine transport in accordance with 2.1

IMDG

Air transport in accordance with IATA 2.1

14.4 Packing group

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

IMDG

Air transport in accordance with IATA not applicable

Ferdinand Bilstein GmbH + Co. KG

Date printed 09.05.2025, Revision 09.05.2025

Version 5.0. Supersedes version: 4.0

Page 9 / 10

14.5 Environmental hazards

Transport by land according to

ADR/RID

nο

no

Inland navigation (ADN)

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

No information available.

- Annex XVII (REACH)

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

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

of substances with the following restrictions. 40

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the

following restrictions. 3

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

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 mothers-to-be and nursing mothers. Observe

employment restrictions for young people.

- VOC (2010/75/CE) ca. 100%

15.2 Chemical safety assessment

not relevant

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

EUH066 Repeated exposure may cause skin dryness or cracking.

H336 May cause drowsiness or dizziness. H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

Ferdinand Bilstein GmbH + Co. KG

Date printed 09.05.2025, Revision 09.05.2025



Page 10 / 10 Version 5.0. Supersedes version: 4.0

16.2 Abbreviations and acronyms:

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

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 Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229

Pressurised container: May burst if heated. (Bridging principle "Aerosols") STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Bridging principle "Aerosols")

Modified position 11.1, 11.2, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7