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

1.1 Product identifier

Run Fluid - Tyre fitting spray
Article number: 2894460400
UFI: 0EM6-V0DA-C207-PUE1

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.

1.3 Details of the supplier of the safety data sheet

Company

Normfest GmbH
Siemensstraße 23
42551 Velbert / GERMANY
Phone +49 2051 275-0
Fax +49 2051 275-141
Homepage www.normfest.com
E-mail info@normfest.de

Address enquiries to

Technical information info@normfest.de

Safety Data Sheet sdb@chemiebuero.de

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.
Eye Irrit. 2: H319 Causes serious eye irritation.

2.2 Label elements

The determination of properties hazardous to health does not take the propellant or carrier material into account.

Hazard pictograms


Signal word DANGER

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.
P280 Wear 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.
P337+P313 If eye irritation persists: Get medical advice / attention.
P501 Dispose of contents/container in accordance with local/national regulation.

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
20 - <40	Dimethyl ether
	CAS: 115-10-6
	GHS/CLP: Flam. Gas 1A: H220 - Press. Gas: H280
1 - <10	2-2'-oxybisethanol
	CAS: 111-46-6
	GHS/CLP: Acute Tox. 4: H302
1 - <2	Docusate sodium
	CAS: 577-11-7
	GHS/CLP: Skin Irrit. 2: H315 - Eye Dam. 1: H318
1 - <2	Alcohol ethoxylated C12-16
	CAS: 68551-12-2
	GHS/CLP: Acute Tox. 4: H302 - Eye Dam. 1: H318

Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
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 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 In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion Do not induce vomiting.
In the event of symptoms seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Headache
Drowsiness
Vertigo

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

Water spray jet.
Carbon dioxide.
Foam.
Dry powder.

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), not combusted hydrocarbons
Bursting aerosols can be forcibly projected from a fire.

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.
Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

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, 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

Use only in well-ventilated areas.

Keep away from all sources of ignition - Refrain from smoking.
Vapours can form an explosive mixture with air.

Do not eat, drink, smoke or take drugs at work.
Wash hands before breaks and after work.
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.

Keep container in a well-ventilated place.
Protect from heat/overheating.
Keep in a cool place, heat causes increase in pressure and risk of bursting.

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 (GB)

Substance
Dimethyl ether
CAS: 115-10-6
Long-term exposure: 400 ppm, 766 mg/m³
Short-term exposure (15-minute): 500 ppm, 958 mg/m³
2-2'-oxybisethanol
CAS: 111-46-6
Long-term exposure: 23 ppm, 101 mg/m³

DNEL

Substance
Dimethyl ether, CAS: 115-10-6
Industrial, inhalative, Long-term - systemic effects, 1894 mg/m³
general population, inhalative, Long-term - systemic effects, 471 mg/m³
2-2'-oxybisethanol, CAS: 111-46-6
Industrial, dermal, Long-term - systemic effects, 43 mg/kg bw/day
Industrial, inhalative, Acute - local effects, 60 mg/m³
Industrial, inhalative, Long-term - systemic effects, 44 mg/m³
general population, dermal, Long-term - systemic effects, 21 mg/kg bw/day
general population, inhalative, Acute - local effects, 12 mg/m³
general population, inhalative, Long-term - systemic effects, 12 mg/m³
Docusate sodium, CAS: 577-11-7
Industrial, oral, Long-term - systemic effects, 17,86 mg/kg bw/day
Industrial, dermal, Long-term - systemic effects, 267,86 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 1889,1 mg/m³
general population, dermal, Long-term - systemic effects, 160,71 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 559,01 mg/m³

PNEC

Substance
Dimethyl ether, CAS: 115-10-6
sediment (seawater), 0,0681 mg/kg dw
freshwater, 0,155 mg/l
seawater, 0,016 mg/l
sediment (freshwater), 0,681 mg/kg dw
sewage treatment plants (STP), 160 mg/L
soil, 0,045 mg/kg dw
2-2'-oxybisethanol, CAS: 111-46-6
freshwater, 10 mg/L
sewage treatment plants (STP), 199,5 mg/L
soil, 1,53 mg/kg
sediment (freshwater), 20,9 mg/kg
seawater, 1 mg/L
Docusate sodium, CAS: 577-11-7
freshwater, 180 µg/L

seawater, 18 µg/L
soil, 1,04 mg/kg soil dw
sewage treatment plants (STP), 12,2 mg/L
sediment (freshwater), 17,789 mg/kg sediment dw
sediment (seawater), 177,9 mg/kg sediment dw

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	Safety glasses. (EN 166:2001)
Hand protection	>0,45 mm Nitrile rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. 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, combination filter A-P2. (DIN EN 14387)
Thermal hazards	See SECTION 7.
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	aerosol
Color	clear
Odor	characteristic
Odour threshold	not determined
pH-value	5 - 9 (Liquid)
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/cm³]	not determined
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]	not determined
Kinematic viscosity	not applicable
Relative vapour density	not applicable
Evaporation speed	not applicable
Melting point [°C]	not applicable
Auto-ignition temperature	not determined
Decomposition temperature [°C]	not applicable
Particle characteristics	No information available.

9.2 Other information

none

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

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

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity Based on available data, the classification criteria are not met.

Substance
Alcohol ethoxylated C12-16, CAS: 68551-12-2
LD50, oral, Human, 300 - 2000 mg/kg bw
Docusate sodium, CAS: 577-11-7
LD50, oral, Rat, >3000 mg/kg bw

Acute dermal toxicity Based on available data, the classification criteria are not met.

Substance
Alcohol ethoxylated C12-16, CAS: 68551-12-2
LD50, dermal, Rabbit, >2000 mg/kg bw
Docusate sodium, CAS: 577-11-7
LD50, dermal, Rabbit, 2525 mg/kg bw

Acute inhalational toxicity Based on available data, the classification criteria are not met.

Substance
Dimethyl ether, CAS: 115-10-6
LC50, inhalative, Rat, 164000 ppm (4 h)
Docusate sodium, CAS: 577-11-7
LD50, inhalative, Rat, 20000 mg/m³

Serious eye damage/irritation Risk of serious damage to eyes.

Substance
Docusate sodium, CAS: 577-11-7
Can cause irreversible damage to the eyes.
Eye, Causes serious eye damage.

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Substance
Docusate sodium, CAS: 577-11-7
dermal, irritant

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Substance
Docusate sodium, CAS: 577-11-7
dermal, non-sensitizing

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

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

Substance
Dimethyl ether, CAS: 115-10-6
NOAEC, inhalativ (gas), Rat, 47106 mg/m³, no adverse effect observed
2-2'-oxybisethanol, CAS: 111-46-6
NOAEL, dermal, Dog, 2220 - 4440 mg/kg bw/day

NOAEL, oral, Rat, 128 - 936 mg/kg bw/day
Docusate sodium, CAS: 577-11-7
NOAEL, oral, Rat, 1000 mg/kg bw/day

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

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

Substance
Dimethyl ether, CAS: 115-10-6
NOAEC, inhalativ (gas), Rat, 47106 mg/m³

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

Substance
Dimethyl ether, CAS: 115-10-6
NOAEC, inhalativ (gas), Rat, 47106 mg/m³, no adverse effect observed

Aspiration hazard Based on available data, the classification criteria are not met.

General remarks

Toxicological data of complete product are not available.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Dimethyl ether, CAS: 115-10-6
LC50, (96h), Poecilia reticulate, > 4000 mg/l
EC50, (96h), Pseudokirchneriella subcapitata, 154,917 mg/l
EC50, (48h), Daphnia magna, > 4000 mg/l
2-2'-oxybisethanol, CAS: 111-46-6
LC50, (96h), fish, 75.2 g/L
LC50, (28d), fish, 1.5 g/L
EC50, (4d), Algae, 6.5 - 13 g/L
EC50, (24h), Invertebrates, 10 g/L
EC50, (21d), Invertebrates, 33.911 g/L
Docusate sodium, CAS: 577-11-7
LC50, (96h), fish, 49 mg/L
EC50, (48h), Invertebrates, 6,6 - 36 mg/L
EC50, (72h), Algae, 39,3 - 128,5 mg/L
EC50, (16h), Microorganisms, 164 - 256 mg/L
LC0, (96h), fish, 20 mg/L
EC10, (16h), Microorganisms, 122 - 190 mg/L
EC10, (21d), Invertebrates, 9 - 9,8 mg/L
EC10, (72h), Algae, 12,4 - 34,3 mg/L

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

Ecological data of complete product are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with national regulations.

Product

Dispose of as hazardous waste.

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID	1950
Inland navigation (ADN)	1950
Marine transport in accordance with IMDG	1950
Air transport in accordance with IATA	1950

14.2 UN proper shipping name

Transport by land according to ADR/RID	Aerosols
- Classification Code	5F
- Label	
- ADR LQ	1 l
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 2 (D)
Inland navigation (ADN)	Aerosols
- Classification Code	5F
- Label	
Marine transport in accordance with IMDG	Aerosols
- EMS	F-D, S-U
- Label	
- IMDG LQ	1 l
Air transport in accordance with IATA	Aerosols, flammable
- 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	2.1
Air transport in accordance with IATA	2.1

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

TRANSPORT-REGULATIONS	ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)
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 young people.
- VOC (2010/75/CE)	30,7 %

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 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

16.2 Other information

Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229 Pressurised container: May burst if heated. (Bridging principle "Aerosols")
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

Modified position

SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 8 been added: In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.