



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

1.1 Product identifier

automatic transmission fluid (ATF)
Article number: ADG05531

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 Ferdinand Bilstein GmbH + Co. KG
Wilhelmstr. 47
58256 Ennepetal / GERMANY
Phone +49 2333 911-0
Fax +49 2333 911-144
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]

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P501 Dispose of contents/container to approved disposal company or municipal collection point.

2.3 Other hazards

Physico-chemical hazards

No particular hazards known.

Human health dangers

Frequent persistent contact with the skin can cause skin irritation.

Environmental hazards

Does not contain any PBT or vPvB substances.
Contains no ingredients with endocrine-disrupting properties.

Other hazards

No particular hazards known.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable



3.2 Mixtures

The product is a mixture.

Range [%]	Substance
25 - 50	Distillates (petroleum), hydrotreated light paraffinic CAS: 64742-55-8, EINECS/ELINCS: 265-158-7, EU-INDEX: 649-468-00-3, Reg-No.: 01-2119487077-29-XXXX GHS/CLP: Asp. Tox. 1: H304
1 - < 2.5	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich CAS: 398141-87-2, EINECS/ELINCS: 800-172-4, Reg-No.: 01-2119969520-35-XXXX GHS/CLP: Aquatic Chronic 2: H411
1 - < 2.5	Methacrylate copolymer EINECS/ELINCS: Polymer GHS/CLP: Eye Irrit. 2: H319 SCL [%]: >= 75: Eye Irrit. 2: H319
0.1 - < 0.25	2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol CAS: 1218787-32-6, EINECS/ELINCS: 620-540-6, Reg-No.: 01-2119510877-33-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1C: H314 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 10
0.1 - < 0.25	N,N-Dimethyl-n-octadecylamine CAS: 124-28-7, EINECS/ELINCS: 204-694-8, Reg-No.: 01-2119486676-20 GHS/CLP: Skin Corr. 1B: H314 - Acute Tox. 4: H302 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410
0.001 - < 0.1	3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine EINECS/ELINCS: 939-485-7, Reg-No.: 01-2119974116-35 GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 100, M-Factor (chronic): 1
0.01 - < 0.1	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol CAS: 95-38-5, EINECS/ELINCS: 202-414-9, Reg-No.: 01-2119777867-13-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - STOT RE 2: H373 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 10, M-Factor (chronic): 1

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: see SECTION 16.

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. 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	Do not induce vomiting. Seek medical advice immediately. Rinse out mouth and give plenty of water to drink.

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 your 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.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Sulphur oxides (SO_x).

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 with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Some risk of slipping due to spillage of product.
Forms slippery surfaces with water.
Use personal protective equipment.

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 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. oil binder).
Dispose of absorbed material in accordance with 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.
Use only in well-ventilated areas.
Use solvent-resistant equipment.

The product is combustible.

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.
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 oxidizing agents.

Keep container in a well-ventilated place.
Keep container tightly closed.



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
Distillates (petroleum), hydrotreated light paraffinic
CAS: 64742-55-8, EINECS/ELINCS: 265-158-7, EU-INDEX: 649-468-00-3, Reg-No.: 01-2119487077-29-XXXX
Long-term exposure: 5 mg/m ³ , ACGIH TLV (OIL MIST)

DNEL

Substance
N,N-Dimethyl-n-octadecylamine, CAS: 124-28-7
Industrial, inhalative, Long-term - local effects, 1 mg/m ³
Industrial, inhalative, Long-term - systemic effects, 1 mg/m ³
Industrial, inhalative, Acute - local effects, 1 mg/m ³
general population, oral, Long-term - systemic effects, 0.5 mg/kg bw/d (AF=100)
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
Industrial, inhalative, Long-term - local effects, 5.58 mg/m ³
Industrial, dermal, Long-term - systemic effects, 0.97 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 2.73 mg/m ³
general population, oral, Long-term - systemic effects, 0.74 mg/kg bw/day
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2
Industrial, dermal, Long-term - systemic effects, 350 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 24.7 mg/m ³
general population, dermal, Long-term - systemic effects, 125 mg/kg bw/day
general population, oral, Long-term - systemic effects, 2.5 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 4.35 mg/m ³
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol, CAS: 95-38-5
Industrial, dermal, Acute - systemic effects, 2 mg/kg bw/day
2 mg/kg bw/day
Industrial, inhalative, Acute - systemic effects, 14 mg/m ³
Industrial, inhalative, Long-term - systemic effects, 0.46 mg/m ³
Industrial, dermal, Long-term - systemic effects, 0.06 mg/kg bw/day
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol, CAS: 1218787-32-6
Industrial, dermal, Long-term - systemic effects, 420 µg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 2.96 mg/m ³
general population, inhalative, Long-term - systemic effects, 522 µg/m ³
general population, dermal, Long-term - systemic effects, 150 µg/kg bw/day
general population, oral, Long-term - systemic effects, 150 µg/kg bw/day
3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine
Industrial, inhalative, Long-term - systemic effects, 4.9 mg/m ³ (AF= 25)
Industrial, dermal, Long-term - systemic effects, 0.7 mg/kg bw/d (AF= 100)
general population, oral, Long-term - systemic effects, 250 µg/kg bw/day
general population, inhalative, Long-term - systemic effects, 0.74 mg/m ³ (AF= 50)
general population, dermal, Long-term - systemic effects, 250 µg/kg bw/day

PNEC

Substance



N,N-Dimethyl-n-octadecylamine, CAS: 124-28-7
sediment (seawater), 0.125 mg/kg dw (AF=500)
soil, 1 mg/kg dw (AF=10)
sewage treatment plants (STP), 130 µg/L (AF= 100)
sediment (freshwater), 1.25 mg/kg dw (AF=50)
seawater, 0.03 µg/L (AF= 100)
freshwater, 0.26 µg/L (AF= 10)
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
oral (food), 9.33 mg/kg food
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2
soil, 85.3 µg/kg soil dw
sediment (seawater), 59.6 µg/kg sediment dw
sediment (freshwater), 433 µg/kg sediment dw
sewage treatment plants (STP), 100 mg/L
seawater, 330 ng/L
freshwater, 2.4 µg/L
oral (food), 111.11 mg/kg food
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol, CAS: 95-38-5
sewage treatment plants (STP), 270 µg/L
seawater, 3 ng/L
sediment (freshwater), 376 µg/kg sediment dw
sediment (seawater), 37.6 µg/kg sediment dw
soil, 75 µg/kg soil dw
freshwater, 30 ng/L
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol, CAS: 1218787-32-6
oral (food), 2 mg/kg food
soil, 5 mg/kg soil dw
sediment (freshwater), 1.692 mg/kg sediment dw
sewage treatment plants (STP), 1500 µg/L
sediment (seawater), 0.169 mg/kg sediment dw
freshwater, 0.214 µg/L
seawater, 0.021 µg/L
3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine
sediment (freshwater), 3.19 mg/kg dw (AF= 1)
freshwater, 0.84 µg/L (AF= 50)
sewage treatment plants (STP), 1.3 mg/L (AF= 10)
sediment (seawater), 0.32 mg/kg dw (AF= 10)
soil, 1.59 mg/kg dw (AF= 1)
seawater, 0.084 µg/L (AF= 500)

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, >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. 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	liquid
Color	red
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]	205 (EN ISO 2592)
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	immiscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	30.6 mm ² /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

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 strong oxidizing agents.

10.4 Conditions to avoid

No special measures necessary.

10.5 Incompatible materials

Strong oxidizing agent.
Strong basic compounds
Strong acids.

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

Product
oral, Based on the available information, the classification criteria are not fulfilled.
Substance
N,N-Dimethyl-n-octadecylamine, CAS: 124-28-7
LD50, oral, Rat, >2000 mg/kg bw (OECD 401)
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
LD50, oral, Rat, 5000 mg/kg bw
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2
LD50, oral, Rat, 10 mL/kg bw
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol, CAS: 95-38-5
LD50, oral, Rat, 1265 mg/kg
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol, CAS: 1218787-32-6
LD50, oral, Rat, 1200 - 2000 mg/kg bw
NOEL, oral, Rat, 5 mg/kg bw/day
3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine
LD50, oral, Rat, 200 - 2000 mg/kg bw
NOAEL, oral, Rat, 50 mg/kg bw/day

Acute dermal toxicity

Product
dermal, Based on the available information, the classification criteria are not fulfilled.
Substance
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
LD50, dermal, Rabbit, 2000 - 5000 mg/kg bw
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2
LD10, dermal, Rabbit, 4000 - 8000 mg/kg bw
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol, CAS: 1218787-32-6
No information available.

Acute inhalational toxicity

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.
Substance
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
LC50, inhalative, Rat, 2.18 - 5.53 mg/L air, 4h
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol, CAS: 1218787-32-6
No information available.

Serious eye damage/irritation

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

Substance
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8



Eye, non-irritating

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

Substance
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
dermal, non-irritating

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

Substance
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
dermal, 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.

Substance
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
NOAEC, inhalative, Rat, 980 mg/m ³ (subacute), no adverse effect observed
LOAEL, dermal, mouse, 100 mg/kg bw/day (chronic), The effects observed are not sufficient for classification.
LOAEL, oral, Rat, 125 mg/kg bw/day, The effects observed are not sufficient for classification.
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2
NOAEC, oral, Rat, 100 - 500 mg/kg bw/day
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol, CAS: 95-38-5
NOAEL, oral, Rat, 20 mg/kg bw/day
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol, CAS: 1218787-32-6
NOAEL, oral, Dog, 13 mg/kg bw/day

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

Substance
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
in vitro, negativ

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

- Fertility

Substance
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
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.

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

General remarks

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.



11.2 Information on other hazards

Endocrine disrupting properties	Contains no ingredients with endocrine-disrupting properties.
Other information	none

SECTION 12: Ecological information

12.1 Toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
N,N-Dimethyl-n-octadecylamine, CAS: 124-28-7
LC50, (96h), Oncorhynchus mykiss, 0.18 mg/l (OECD 203)
EC10, (72h), Desmodesmus subspicatus, 4.31 µg/l (OECD 201)
EC10, (48h), Daphnia magna, 0.593 mg/l (OECD 202)
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
NOELR, (14d), fish, 1 g/L
LL50, (96h), fish, 100 mg/L
LL50, (96h), Invertebrates, 10 g/L
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich, CAS: 398141-87-2
EC50, (48h), Daphnia magna, 4.6 mg/l (OECD 202)
NOELR, (72h), Algae, 313 µg/L
LL50, (96h), Oncorhynchus mykiss, 2.4 mg/l (OECD 203)
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol, CAS: 95-38-5
EC50, (72h), Algae, 16.9 - 30 µg/L
EC50, (48h), Invertebrates, 163 µg/L
LC0, (96h), fish, 180 µg/L
2,2-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol, CAS: 1218787-32-6
LC50, (24h), Danio rerio, >0.29 mg/L (OECD 203)
EC50, (24h), Daphnia magna, 0.21 mg/L (OECD 202)
EC10, (72h), Daphnia magna, 34.1 µg/L (OECD 201)
EC10, (21d), Daphnia magna, 10.7 µg/L (OECD 211)
3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine
LC50, (96h), fish, 2.14 mg/L
EC50, (72h), Algae, 82.7 - 86.8 µg/L
EC10, (21d), Invertebrates, 1.22 - 1.28 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.

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

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
150102
150104

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

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 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/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 no

- 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)

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H411 Toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

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

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. ()

Modified position

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

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



Safety Data Sheet (UK REACH) (GB)
automatic transmission fluid (ATF)
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