SAFETY DATA SHEET
ATF DCT

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

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

1.1. Product identifier

Product name ATF DCT

Product number 12212

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

Identified uses Transmission oil.

Uses advised against This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier. This product is not to be used as a solvent or cleaning agent; for lighting or brightening fires; as a skin cleanser. This product is designed only to suit automotive applications and no provision is made for the requirements of aviation applications.

1.3. Details of the supplier of the safety data sheet

Contact person Customer Services: madeniyag@petrolofisi.com.tr

Manufacturer PETROL OFİSİ A.Ş.
Ünalan Mahallesi, Libadiye Caddesi No: 82F Kat: 2-3-4, 34700 Üsküdar/ Istanbul
Tel: +90 850 339 1919
Fax: +90 216 275 3854
madeniyag@petrolofisi.com.tr

1.4. Emergency telephone number

Emergency telephone Madeni Yağ Customer Services: 0850 339 1919 (working hours)

National emergency telephone number Emergency Medical Services: 112 National Poison Consultance Center: 114

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements EUH208 Contains C14-18 alpha-olefin epoxide, reaction products with boric acid, 2-ethylhexyl methacrylate. May produce an allergic reaction.

Precautionary statements P273 Avoid release to the environment.
P501 Dispose of contents/ container in accordance with national regulations.
P401 Store in accordance with national regulations.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.

ATF DCT

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Distillates (petroleum), hydrotreated heavy paraffinic baseoil **60-80%**

CAS number: 64742-54-7 EC number: 265-157-1 REACH registration number: 01-2119484627-25-0065

Classification
Asp. Tox. 1 - H304

Mineral oil (mixture) **10-20%**

CAS number: —

The mineral oil contained in this material may be described by one or more of the following CAS No's.: 64742-54-7, 64742-65-0, 6474255-8, and 64742-56-9.

Classification
Asp. Tox. 1 - H304

bis(nonylphenyl)amine **1-5%**

CAS number: 36878-20-3 EC number: 253-249-4

Classification
Aquatic Chronic 4 - H413

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol **1-5%**

CAS number: 91648-65-6 EC number: 293-927-7

Classification
Aquatic Chronic 3 - H412

Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) **1-5%**

CAS number: — EC number: 701-204-9

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich **<1%**

CAS number: 398141-87-2 EC number: 800-172-4

Classification
Aquatic Chronic 2 - H411

ATF DCT

C14-18 alpha-olefin epoxide, reaction products with boric acid **<1%**

CAS number: — EC number: 939-580-3

Classification
Skin Sens. 1B - H317

2-ethylhexyl methacrylate **<1%**

CAS number: 688-84-6 EC number: 211-708-6

Note A: Without prejudice to article 17(2), the name of the substance must appear on the label in the form of one of the designations given in the part 3, use is sometimes made of a general description such as '... compounds' or '... salts' . In this case, the supplier is required to state on the label to correct name, due acccount being taken of section 1.1.1.4.

Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1B - H317
STOT SE 3 - H335
Aquatic Chronic 3 - H412

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol **<1%**

CAS number: 1218787-32-6 EC number: 620-540-6

M factor (Acute) = 10

Classification
Acute Tox. 4 - H302
Skin Corr. 1C - H314
Eye Dam. 1 - H318
Aquatic Acute 1 - H400
Aquatic Chronic 2 - H411

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Immediate first aid is imperative. Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention. Artificial respiration and / or oxygen may be required.

Ingestion Rinse mouth thoroughly with water. Remove any dentures. Provide fresh air, warmth and rest, preferably in comfortable upright sitting position. If the material is swallowed and the victim is conscious, give low amounts of water to drink. Stop if the affected person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms are severe or persist. Never give anything by mouth to an unconscious person. If the victim is unconscious, place them in the recovery position and seek immediate medical attention. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

ATF DCT

Skin contact	In case of any discomfort, seek medical advice immediately. Take off contaminated clothing and wash it before reuse. In case of contact, the skin should be washed with plenty of water for at least 15 minutes.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Occasionally open and close eyelids during the wash process.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

4.2. Most important symptoms and effects, both acute and delayed

General information	See Section 11 for additional information on health hazards.
Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known.
Skin contact	No specific symptoms known.
Eye contact	No specific symptoms known.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	The effect of decomposition products that may be released during the fire may be delayed. The exposed person may need to be kept under medical observation for 48 hours.
Specific treatments	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use a suitable extinguishing agent to extinguish the fire.
Unsuitable extinguishing media	Using a water jet can be inconvenient.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Carbon dioxide (CO2). Carbon monoxide (CO). Hydrogen sulphide (H2S). Metal oxide(s). Oxides of nitrogen. Oxides of phosphorus.

5.3. Advice for firefighters

Protective actions during firefighting	Evacuate area. No action shall be taken without appropriate training or involving any personal risk.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure procedures and training for emergency decontamination and disposal are in place. Take care as floors and other surfaces may become slippery.
For non-emergency personnel	Necessary precautions should be taken to ensure that non-educated personnel do not intervene.

ATF DCT

For emergency responders Stop the leakage source if it can be done without risk.Limit spillage to prevent further contamination of soil, surface or ground water.Remove any spilled material as soon as possible by following the precautions in the section Exposure Controls / Personal Protection.Use suitable techniques such as non-flammable absorbent materials or pumping.When possible or appropriate, remove the contaminated soil from the area.Place contaminated products in disposable boxes and dispose of in accordance with regulations.If a heated material is spilled, allow it to cool before handling with disposal methods.

6.2. Environmental precautions

Environmental precautions Apply protective methods to prevent spilled material from entering into water sources, water channels, sewers and soil. The product contains a substance which is very toxic to aquatic organisms. May be harmful to the environment if released in large quantities. Environmental manager must be informed of all major spillages. Inform respective authorities in case product reaches water or sewage system.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Provide adequate ventilation. Remove all sources of ignition. Small spill : Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water sources, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may be pose the same hazard as the spilled product. Inform authorities if large amounts are involved.

6.4. Reference to other sections

Reference to other sections See Section 1 for emergency contact information. For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Wear protective clothing as described in Section 8 of this safety data sheet. Do not ingest. Avoid siphonage by mouth. Avoid contact with skin, eyes and clothing. Do not breathe dust or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Product residues retained in emptied containers can be hazardous. Do not reuse empty containers.

Advice on general occupational hygiene Avoid breathing vapors / mist. Proper ventilation should be provided in areas where the product is used. Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Wash contaminated skin thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse. Remove contaminated clothing and protective equipment before entering eating areas. Good personal hygiene procedures should be implemented.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in accordance with local regulations. Keep only in the original container in a cool, well-ventilated place. Protect from freezing and direct sunlight. Store away from incompatible materials (see Section 10). Containers that have been opened must be carefully released and kept upright to prevent leakage. Do not store in unlabeled containers. Avoid environmental contamination.

Storage class Not applicable.

ATF DCT

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

Usage description The product must be used as specified in the data sheet.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Mineral Oil- inhalable fraction: TWA : 5 mg/m3 (Source:US. ACGIH Threshold Limit Values (02 2012))
Distillates (petroleum) hydrotreated heavy paraffinic: EU OEL (Europe) TWA: 5 mg/m3, 8 hours.
Distillates (petroleum) solvent-dewaxed heavy paraffinic: EU OEL (Europe) TWA: 5 mg/m3, 8 hours/ STEL: 10 mg/m3, 15 minutes.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

There is no available data.

DNEL

64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic
DNEL: 2,7 (8h) mg/m3 (long trm inhalativ worker systemic)
DNEL: 5,4 (8h) mg/m3 (long-term inhalativ worker local)
DNEL: 1,2 (24h) mg/m3 (long-term inhalativ comsumer local)
DNEL: 0,74 (24h) mg/kg/d (long-term oral consumer systemic)
DNEL: 1,0 (8h) mg/kg (long-term dermal worker systemic)

Distillates (petroleum), hydrotreated heavy paraffinic baseoil (CAS: 64742-54-7)

Ingredient comments There is no available data.

Biological limit values There is no available data.

DNEL

Workers - Inhalation; Long term systemic effects: 2,7 (8h) mg/m³
Workers - Inhalation; Long term local effects: 5,4 (8h) mg/m³
Consumer - Inhalation; Long term local effects: 1,2 (24h) mg/m³
Consumer - Oral; Long term systemic effects: 0,74 (24h) mg/kg/day
Workers - Dermal; Long term systemic effects: 1,0 (8h) mg/kg

DMEL No information available.

PNEC No information available.

8.2. Exposure controls

Protective equipment

Appropriate engineering controls As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist. Good general ventilation should be adequate to control worker exposure to airborne contaminants.

Personal protection Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. Keep away from foodstuffs, beverages and foods. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Store protective clothing separately.

ATF DCT

Eye/face protection	Normally, eye protection equipment is not required.Wear side goggles for safe operation when a risk of splashing is possible.If this material is heated, use chemical goggles, protective goggles or face shield.(EN 166)
Hand protection	Chemical resistant gloves: Nitril gloves of minimum thickness 0.4 mm have an expected breakthrough time of 480 minutes orless when if frequent contact with the product. This information does not replace suitability tests by the end user since glove protection varis depending on the conditions under which the product is used. Use good industrial hygiene practices.
Other skin and body protection	Avoid contact with skin. Personal protective equipment for the body should be selected based on the task being performed and the risk involved and should be approved by a specialist before handling this product.
Hygiene measures	Good personal hygiene procedures should be implemented. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash facilities and emergency shower must be available when handling this product.
Respiratory protection	Use appropriate respiratory protection if there is the potential to exceed the exposure limits. Select respirator based on suitability to provide adequate worker protection for given working conditions and level of airborne contaminant. Seek professional advice prior to respirator selection and use.
Thermal hazards	If there is a risk of contact with hot product, all protective equipment worn should be suitable for use with high temperatures. If there is a risk of contact with refrigerated product, all protective equipment should be suitable for use with low temperatures.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Brownish.
Odour	Odorless or slightly petroleum oil
Odour threshold	Inconclusive data.
pH	Scientifically unjustified.
Melting point	>=-42°C
Initial boiling point and range	Inconclusive data.
Flash point	~ 218°C Cleveland open cup.
Evaporation rate	Inconclusive data.
Evaporation factor	Inconclusive data.
Flammability (solid, gas)	Inconclusive data.
Upper/lower flammability or explosive limits	Inconclusive data.
Other flammability	Inconclusive data.

ATF DCT

Vapour pressure	Inconclusive data.
Vapour density	Inconclusive data.
Relative density	Inconclusive data.
Bulk density	~ 0,85 g/ml
Solubility(ies)	Inconclusive data.
Partition coefficient	Inconclusive data.
Auto-ignition temperature	Inconclusive data.
Decomposition Temperature	Inconclusive data.
Viscosity	>25 cSt @ 40°C
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	No suitable data is available.
Oxidising properties	Not known.

9.2. Other information

Other information	No information required.
Refractive index	Inconclusive data.
Particle size	Inconclusive data.
Molecular weight	Inconclusive data.
Volatility	Inconclusive data.
Saturation concentration	Inconclusive data.
Critical temperature	Inconclusive data.
Volatile organic compound	Inconclusive data.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No test data specifically related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stability This material is considered stable under normal environmental conditions and in the conditions of storage and handling foreseen.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No hazardous reaction under normal conditions of storage and use.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong reducing agents. Strong acids.

10.6. Hazardous decomposition products

ATF DCT

Hazardous decomposition products	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide,irritating vapors and other products of incomplete combustion. Sulfur oxides. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	Information given is based on data of the components and of similar products.
Other health effects	No relevant information available.

Acute toxicity - oral

Summary	Based on available data the classification criteria are not met.
Notes (oral LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - dermal

Summary	Based on available data the classification criteria are not met.
Notes (dermal LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Summary	Based on available data the classification criteria are not met.
Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.

Skin corrosion/irritation

Summary	Based on available data the classification criteria are not met.
Skin corrosion/irritation	May cause sensitation or allergic reactions.
Animal data	No information available.
Human skin model test	No information available.
Extreme pH	No information available.

Serious eye damage/irritation

Summary	Based on available data the classification criteria are not met.
Serious eye damage/irritation	May cause sensitation or allergic reactions.

Respiratory sensitisation

Summary	Based on available data the classification criteria are not met.
Respiratory sensitisation	Based on available data the classification criteria are not met.

Skin sensitisation

Summary	Based on available data the classification criteria are not met.
Skin sensitisation	May cause sensitisation or allergic reactions in sensitive individuals.

Germ cell mutagenicity

Summary	Based on available data the classification criteria are not met.
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Based on available data the classification criteria are not met.

Carcinogenicity

Summary	Based on available data the classification criteria are not met.
Carcinogenicity	No specific test data are available.

ATF DCT

Target organ for carcinogenicity	No specific target organs known.

Reproductive toxicity

Summary	Based on available data the classification criteria are not met.
Reproductive toxicity - fertility	No specific test data are available.
Reproductive toxicity - development	No information is required.

Specific target organ toxicity - single exposure

Summary	Based on available data the classification criteria are not met.
STOT - single exposure	No specific test data are available.
Target organs	No specific target organs known.

Specific target organ toxicity - repeated exposure

Summary	Based on available data the classification criteria are not met.
STOT - repeated exposure	No specific test data are available.
Target organs	No specific target organs known.

Aspiration hazard

Summary	Based on available data the classification criteria are not met.
Aspiration hazard	May be fatal if swallowed and penetrates into the respiratory tract.

Toxicokinetics	No information is required.
General information	Information given is based on data of the components and of similar products.
Inhalation	May be harmful if inhaled.
Ingestion	Aspiration hazard if swallowed.
Skin contact	May cause sensitisation or allergic reactions in sensitive individuals.
Eye contact	May cause sensitisation or allergic reactions in sensitive individuals.
Acute and chronic health hazards	There is not enough data.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.
Medical symptoms	No specific tes data are available.
Medical considerations	No specific tes data are available.

Toxicological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

Toxicological effects	Information given is based on data of the components and of similar products.
Other health effects	No information required.

Acute toxicity - oral

Summary	Based on available data the classification criteria are not met.

ATF DCT

Notes (oral LD_{50})	LD_{50} >5000 (OECD 401)/API 1982a mg/kg, Oral, Rat
Acute toxicity - dermal	
Summary	Based on available data the classification criteria are not met.
Notes (dermal LD_{50})	LD_{50} >5000 (OECD 402)/API 1982a mg/kg, Dermal, Rabbit
Acute toxicity - inhalation	
Summary	Based on available data the classification criteria are not met.
Notes (inhalation LC_{50})	LC50, 4h 5,53 (OECD 403)/Exxon Biomedical Sciences, Inc.(1988a) mg/l, Inhalation, Rat
Skin corrosion/irritation	
Summary	Based on available data the classification criteria are not met.
Skin corrosion/irritation	Based on available data the classification criteria are not met.
Animal data	Based on available data the classification criteria are not met.
Human skin model test	Based on available data the classification criteria are not met.
Extreme pH	Based on available data the classification criteria are not met.
Serious eye damage/irritation	
Summary	Based on available data the classification criteria are not met.
Serious eye damage/irritation	Based on available data the classification criteria are not met.
Respiratory sensitisation	
Summary	Based on available data the classification criteria are not met.
Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation	
Summary	Based on available data the classification criteria are not met.
Skin sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Summary	Based on available data the classification criteria are not met.
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Genotoxicity - in vivo	Based on available data the classification criteria are not met.
Carcinogenicity	
Summary	Based on available data the classification criteria are not met.
Carcinogenicity	Based on available data the classification criteria are not met.
Target organ for carcinogenicity	No specific target organs known.
IARC carcinogenicity	Not listed.
NTP carcinogenicity	Not listed.
Reproductive toxicity	

ATF DCT

Summary	Based on available data the classification criteria are not met.
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

Summary	Based on available data the classification criteria are not met.
STOT - single exposure	Based on available data the classification criteria are not met.
Target organs	No specific target organs known.

Specific target organ toxicity - repeated exposure

Summary	Based on available data the classification criteria are not met.
STOT - repeated exposure	Based on available data the classification criteria are not met.
Target organs	No specific target organs known.

Aspiration hazard

Summary	Slight irritation of the respiratory tract may occur, if mists are inhaled.
Aspiration hazard	May be fatal if swallowed and enters airways.

Toxicokinetics	No information required.
General information	No information required.
Inhalation	No information required.
Ingestion	No information required.
Skin contact	No information required.
Eye contact	No information required.
Acute and chronic health hazards	No information required.
Route of exposure	No information required.
Target organs	No specific target organs known.
Medical symptoms	No information required.
Medical considerations	No information required.

Mineral oil (mixture)

Skin sensitisation

Skin sensitisation	Classification: Not a skin sensitizer. (Read across) (Supplier information)

Specific target organ toxicity - single exposure

STOT - single exposure	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. (Supplier information)

Aspiration hazard

ATF DCT

Aspiration hazard Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death. (Supplier information)

bis(nonylphenyl)amine

Germ cell mutagenicity

Genotoxicity - in vitro This material has not exhibited mutagenic or genotoxic potential in laboratory tests. (Supplier information)

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol

Germ cell mutagenicity

Genotoxicity - in vitro This material has not exhibited mutagenic or genotoxic potential in laboratory tests. (Supplier information)

Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic)

Serious eye damage/irritation

Serious eye damage/irritation Irritation of eyes is assumed. Measured Rabbit Supplier's information.

Skin sensitisation

Skin sensitisation Classification: Not a skin sensitizer. Measured Supplier's information.

C14-18 alpha-olefin epoxide, reaction products with boric acid

Skin sensitisation

Skin sensitisation Skin Sens. 1B - H317

2-ethylhexyl methacrylate

Serious eye damage/irritation

Serious eye damage/irritation Causes eye irritation.

Skin sensitisation

Skin sensitisation Skin Sens. 1B - H317

Germ cell mutagenicity

Genotoxicity - in vitro This material has not exhibited mutagenic or genotoxic potential in laboratory tests. (Supplier information)

Specific target organ toxicity - single exposure

Target organs Respiratory system, lungs

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Serious eye damage/irritation

Serious eye damage/irritation Corrosivity to eyes is assumed. Read-across data. Rabbit Supplier's information.

Skin sensitisation

ATF DCT

Skin sensitisation	Classification: Not a skin sensitizer. (Read across) (Supplier information)

Germ cell mutagenicity

Genotoxicity - in vitro	Negative. Supplier's information.

Specific target organ toxicity - single exposure

STOT - single exposure	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. (Supplier information)

SECTION 12: Ecological information

Ecotoxicity Based on available data the classification criteria are not met.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

Ecotoxicity	Based on available data the classification criteria are not met.

12.1. Toxicity

Toxicity Based on available data the classification criteria are not met.

Acute aquatic toxicity

Summary	Based on available data the classification criteria are not met.
Acute toxicity - fish	Based on available data the classification criteria are not met.
Acute toxicity - aquatic invertebrates	Based on available data the classification criteria are not met.
Acute toxicity - aquatic plants	Based on available data the classification criteria are not met.
Acute toxicity - microorganisms	Based on available data the classification criteria are not met.
Acute toxicity - terrestrial	No information required.

Chronic aquatic toxicity

Summary	Based on available data the classification criteria are not met.
Chronic toxicity - fish early life stage	No information required.
Short term toxicity - embryo and sac fry stages	No information required.
Chronic toxicity - aquatic invertebrates	Based on available data the classification criteria are not met.
Toxicity to soil	There is not enough data.
Toxicity to terrestrial plants	There is not enough data.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

Toxicity	Based on available data the classification criteria are not met.

Acute aquatic toxicity

Summary	Based on available data the classification criteria are not met.

ATF DCT

Acute toxicity - fish	LL_{50}, : >100 mg/l, Fish LL_{50}, 96 (OECD 203) hours: >100 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	LL_{50}, 24 (OECD 202) hours: >10000 mg/l, Gammarus pulex EL50, 24 (OECD 202) hours: >10000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	No information required.
Acute toxicity - microorganisms	LL_{50}, : >100 mg/l, Micro-organisms
Acute toxicity - terrestrial	No information required.

Chronic aquatic toxicity

Summary	Based on available data the classification criteria are not met.
Chronic toxicity - fish early life stage	No information required.
Short term toxicity - embryo and sac fry stages	No information required.
Chronic toxicity - aquatic invertebrates	No information required.
Toxicity to soil	No information required.
Toxicity to terrestrial plants	No information required.

Mineral oil (mixture)

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 4 day: >100 mg/l, Fathead Minnow
Acute toxicity - aquatic invertebrates	EC_{50}, 2 day: >10000 mg/l, Daphnia magna EC_{50}, 21 day: >10 mg/l, Daphnia magna NOEC, 21 day: >10 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 3 day: >100 mg/l, Scenedesmus quadricauda

bis(nonylphenyl)amine

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 4 day: >100 mg/l, Danio rerio (Zebrafish)
Acute toxicity - aquatic invertebrates	EC_{50}, 2 day: >100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 3 day: 600 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC_{50}, 0,1 day: >1000 mg/l, Sludge

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol

Acute aquatic toxicity

ATF DCT

Acute toxicity - fish	LC_{50}, 4 day: >1000 mg/l, Fathead Minnow NOEC, 4 day: 1000 mg/l, Fathead Minnow
Acute toxicity - aquatic invertebrates	EC_{50}, 2 day: 41 mg/l, Daphnia magna NOEC, 2 day: 32 mg/l, Daphnia magna
Acute toxicity - aquatic plants	NOEC, 3 day: 100 mg/l, Selenastrum capricornutum EC_{50}, 3 day: >100 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC_{50}, 0,7 day: >8000 mg/l, pseudomonas putida

Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic)

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 4 day: >1000 mg/l, Fathead Minnow
Acute toxicity - aquatic invertebrates	EC_{50}, 2 day: >10000 mg/l, Daphnia magna EC_{50}, 21 day: >32 mg/l, Daphnia magna NOEC, 21 day: 32 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 4 day: 94 mg/l, Selenastrum capricornutum NOEC, 4 day: 23 mg/l, Selenastrum capricornutum

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 4 day: 2,4 mg/l, Salmo gairdneri (Rainbow trout) LC_{50}, 4 day: 3,3 mg/l, Sheepshead Minnow NOEC, 4 day: 1 mg/l, Salmo gairdneri (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 2 day: 4,6 mg/l, Daphnia magna NOEC, 2 day: 0,63 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 3 day: 63 mg/l, Selenastrum capricornutum NOEC, 3 day: 0,313 mg/l, Selenastrum capricornutum

C14-18 alpha-olefin epoxide, reaction products with boric acid

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 4 day: >100 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 2 day: >100 mg/l, Daphnia magna EC_{50}, 21 day: 20 mg/l, Daphnia magna NOEC, 2 day: 100 mg/l, Daphnia magna NOEC, 21 day: 10 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 3 day: >100 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC_{50}, 0,1 day: >10000 mg/l, Sludge

2-ethylhexyl methacrylate

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 4 day: 2,78 mg/l, Red Killifish

ATF DCT

Acute toxicity - aquatic invertebrates	EC_{50}, 21 day: 0,105 mg/l, Daphnia magna NOEC, 21 day: 0,105 mg/l, Daphnia magna

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol

Acute aquatic toxicity

$LE(C)_{50}$	0.01 < L(E)C50 ≤ 0.1
M factor (Acute)	10
Acute toxicity - fish	LC_{50}, 4 day: 0,1 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC_{50}, 2 day: 0,043 mg/l, Daphnia magna EC10, 21 day: 0,0107 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 3 day: 0,0538 mg/l, Pseudokirchneriella subcapitata NOEC, 3 day: 0,0156 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EC_{50}, 3 hour: 167 mg/l, Sludge

12.2. Persistence and degradability

Persistence and degradability	There are no data on the degradability of this product.
Phototransformation	No specific test data are available.
Stability (hydrolysis)	No specific test data are available.
Biodegradation	No specific test data are available.
Biological oxygen demand	No specific test data are available.
Chemical oxygen demand	No specific test data are available.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

Persistence and degradability	OECD 301B:2-4 %,28 d ;OECD 301F:31 %,28 d
Phototransformation	Inconclusive data.
Stability (hydrolysis)	Inconclusive data.
Biodegradation	Inconclusive data.
Biological oxygen demand	Inconclusive data.
Chemical oxygen demand	Inconclusive data.

Mineral oil (mixture)

Biodegradation	Carbon dioxide formation - 31: 28 day, OECD TG 301B

bis(nonylphenyl)amine

Biodegradation	Carbon dioxide formation - 0 %: 28 day, OECD TG 301B

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol

Biodegradation	Oxygen discharge - 2: 28 day, OECD TG 301 C

ATF DCT

C14-18 alpha-olefin epoxide, reaction products with boric acid

Biodegradation Miscellaneous - 17,3: 28 day
Miscellaneous - 26,7: 28 day

2-ethylhexyl methacrylate

Biodegradation Oxygen discharge - 88: 28 day, OECD TG 301 C

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol

Biodegradation Oxygen discharge - 63 %: 28 day, OECD TG 301 D

12.3. Bioaccumulative potential

Bioaccumulative potential No specific test data are available.

Partition coefficient Inconclusive data.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

Bioaccumulative potential Inconclusive data.

Partition coefficient Inconclusive data.

bis(nonylphenyl)amine

Bioaccumulative potential BCF: 1584,89, Measured

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol

Partition coefficient log Kow: Measured 9,4

C14-18 alpha-olefin epoxide, reaction products with boric acid

Partition coefficient log Kow: 9,4

2-ethylhexyl methacrylate

Bioaccumulative potential BCF: 37, Measured

Partition coefficient log Kow: 4,95

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol

Bioaccumulative potential BCF: 110,2, Fish, Calculation method.

Partition coefficient log Kow: 3,6

12.4. Mobility in soil

Mobility No data available.

Adsorption/desorption coefficient No specific test data are available.

Henry's law constant No specific test data are available.

Surface tension No specific test data are available.

ATF DCT

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

Mobility	No data available.
Adsorption/desorption coefficient	Inconclusive data.
Henry's law constant	Inconclusive data.
Surface tension	Inconclusive data.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment Not applicable.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

Results of PBT and vPvB assessment	Not relevant.

12.6. Other adverse effects

Other adverse effects May cause minor damage to water. Dangerous for the environment.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic baseoil

Other adverse effects	This product contains components that have a harmful effect on the aquatic environment.Do not allow to enter into soil, rivers or sewers.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information The generation of waste should be minimised or avoided wherever possible. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Avoid the spillage or runoff entering drains, sewers or watercourses. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Reuse or recycle products wherever possible. Dispose of contents/container in accordance with national regulations. When handling waste, the safety precautions applying to handling of the product should be considered.

Waste class The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Road transport notes Not regulated.

Rail transport notes Not classified.

ATF DCT

Sea transport notes	Not classified.
Air transport notes	Not classified.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

Transport labels
No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

14.6. Special precautions for user

Ensure that persons transporting the product know what to do in the event of an accident or spillage. Always transport in closed containers that are upright and secure.

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

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

National regulations	T. C. Regulation on the Classification, Labeling and Packaging of Substances and Mixtures No. 28848, dated 11 December 2013, by the Ministry of Environment and Urbanization. T. C. Ministry of Environment and Urbanization Regulation on Safety Data Sheets on Hazardous Substances and Mixtures T. C. Ministry of Environment and Urbanization Guidelines for Safe Storage of Chemicals T. C. The Ministry of Labor and Social Security, Regulation on the Use of Personal Protective Equipment at Workplaces No. 28695 dated July 2, 2013 T. C. The Ministry of Labor and Social Security, Implementing Regulation on Health and Safety Measures for Working with Chemical Substances, numbered 28733 dated August 12, 2013
EU legislation	https://echa.europa.eu
Guidance	Safety Data Sheets for Substances and Preparations.

15.2. Chemical safety assessment

SECTION 16: Other information

ATF DCT

Abbreviations and acronyms used in the safety data sheet

E.U. : European union
DMSO: Dimethyl sulfoxide
KKE: Personal protective aquipment
T.C. : Republic of Turkey
TWA: Workplace exposure limits
UZEM: National Poison Information Center
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
GHS: Globally Harmonized System.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
LC_{50}: Lethal Concentration to 50 % of a test population.
LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
vPvB: Very Persistent and Very Bioaccumulative.
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.

Classification abbreviations and acronyms

Asp. Tox. = Aspiration hazard
Skin Irrit. = Skin irritation
Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Eye Dam. = Serious eye damage
Skin Corr. = Skin corrosion
Repr. = Reproductive toxicity
Aquatic Acute = Hazardous to the aquatic environment (acute)
Skin Sens. = Skin sensitisation
Acute Tox. = Acute toxicity
STOT SE = Specific target organ toxicity-single exposure

General information

Only trained personnel should use this material. This document contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organisation responsible for advising on safety matters. Uses and Restrictions : This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier. This product is not to be used as a solvent or cleaning agent; for lighting or brightening fires; as a skin cleanser. MSDS Distribution : The information in this document should be made available to all who may handle the product. Disclaimer : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Key literature references and sources for data

This SDS is prepared based on the information received from raw material suppliers.

Classification procedures according to Regulation (EC) 1272/2008

EUH208: Calculation method., Supplier information

ATF DCT

Revision comments	Revised classification.
Issued by	Sevda ŞAHAN Certified Safety Data Sheet Preparer (Certificate Id:GBF01.23.08;Dates: 03.11.2018-03.11.2021)
Revision date	03/01/2020
Revision	1
Supersedes date	01/01/2019
SDS number	20410
Hazard statements in full	H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. EUH208 Contains C14-18 alpha-olefin epoxide, reaction products with boric acid, 2-ethylhexyl methacrylate. May produce an allergic reaction.