

# SAFETY DATA SHEET GRAVIS M 150

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 GRAVIS M 150

Product number 28153

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

Identified uses Industrial oil

Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier PETROL OFISI A.Ş.

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Tel: +90 850 339 1919 Fax: +90 216 275 3854 madeniyag@petrolofisi.com.tr

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

1.4. Emergency telephone number

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

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

number

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

**Health hazards** Skin Sens. 1 - H317

**Environmental hazards** Aquatic Chronic 3 - H412

**Environmental** The product is not expected to be hazardous to the environment.

2.2. Label elements

Hazard pictograms



Signal word Warning

**Hazard statements** H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

## **GRAVIS M 150**

**Precautionary statements** P261 Avoid breathing vapour/ spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302+P352 IF ON SKIN: Wash with plenty of water. P321 Specific treatment (see medical advice on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/ container in accordance with national regulations.

Contains Amines, C10-14-tert-alkyl

### 2.3. Other hazards

No other information known.

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## Distillates (petroleum), hydrotreated heavy paraffinic

60-80%

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

2119484627-25-0033

### Classification

Not Classified

# Phosphoric acid, mono- and bis(branched and linear pentyl)

<1%

esters

CAS number: — EC number: 282-784-6

#### Classification

Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412

## Amines, C10-14-tert-alkyl

<1%

CAS number: — EC number: 701-175-2

M factor (Acute) = 1 M factor (Chronic) = 1

### Classification

Acute Tox. 4 - H302

Acute Tox. 3 - H311

Acute Tox. 2 - H330

Skin Corr. 1B - H314

Eye Dam. 1 - H318

Skin Sens. 1A - H317

STOT SE 3 - H335

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

## **GRAVIS M 150**

# 1,3,4-Thiadiazolidine-2,5-dithione, reaction products with

<1%

hydrogen peroxide and tert-nonanethiol

CAS number: — EC number: 293-927-7

Classification

Aquatic Chronic 3 - H412

# C16-18-(even numbered, saturated and unsaturated)-

<1%

alkylamines

CAS number: — EC number: 627-034-4

M factor (Acute) = 10 M factor (Chronic) = 10

#### Classification

Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Fuelsi diesel <1%

CAS number: 68334-30-5 EC number: 269-822-7

Classification

Carc. 2 - H351

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

Composition comments Some substances are not classified by legistlation. They are self classified by the

manufacturer. The DMSO extract by IP 346 of the oil is less than 3%

Ingredient notes See Section 8 for occupational exposure limits. This SDS is prepared based on the information received from raw material suppliers.

# SECTION 4: First aid measures

# 4.1. Description of first aid measures

General information Treat symptomatically.

Inhalation Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical

attention if any discomfort continues.

**Ingestion** Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse

mouth thoroughly with water. Get medical attention if any discomfort continues.

**Skin contact** Remove affected person from source of contamination. Remove contaminated clothing. Wash

skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye contact Remove affected person from source of contamination. Remove any contact lenses and open

eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

**Protection of first aiders** First aid personnel should wear appropriate protective equipment during any rescue.

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

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**General information** See Section 11 for additional information on health hazards.

InhalationNo specific symptoms known.IngestionNo specific symptoms known.Skin contactNo specific symptoms known.Eye contactNo specific symptoms known.

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

Treat symptomatically.

Notes for the doctor Treat symptomatically.

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Specific treatments

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

Specific hazards Not known.

Hazardous combustion

products

A complex mixture of airborne solids, liquids and gases can be released. Smoke and irritating vapours as products of incomplete combustion. Carbon dioxide (CO2). Carbon monoxide

(CO). Oxides of nitrogen. Oxides of sulphur. Oxides of phosphorus.

# 5.3. Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapours.

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** Wear protective clothing as described in Section 8 of this safety data sheet.

For non-emergency personnel Necessary precautions should be taken to ensure that non-educated personnel do not

intervene.

**For emergency responders** Notification: In case of spillage, notify the local authorities as appropriate or as necessary.

Proper ventilation should be provided. 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 Avoid discharge into drains or watercourses or onto the ground.

## 6.3. Methods and material for containment and cleaning up

## **GRAVIS M 150**

Methods for cleaning up Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into

containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering

drains, sewers or watercourses.

### 6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13. See Section 1 for

emergency contact information. See Section 11 for additional information on health hazards.

See Section 12 for additional information on ecological hazards.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Usage precautions Good ventilation should be provided in the working environment and inhalation of vapor

generated during use should be avoided.

Skin contact should be avoided and hygienic rules should be followed.

Eye contact should be avoided. Wear goggles or a face mask to prevent eye contact. Avoid eating, drinking and smoking while using. Use disposable clothing. Prevent soil

contamination or spillage into sewage systems and water.

Advice on general occupational hygiene

Persons susceptible to allergic reactions should not handle this product. Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented. Take

off contaminated clothing.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store in

accordance with national regulations. Store in a demarcated bunded area to prevent release

to drains and/or watercourses.

Storage class Chemical storage.

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

No other information known.

## Distillates (petroleum), hydrotreated heavy paraffinic

Oil mist: TWA: 5 mg/m3 (ACGIH). In no case should this limit be exceeded or the local limit, if it is more restrictive.

Ingredient comments WEL = Workplace Exposure Limits

Biological limit values

No other information known.

No other information known.

No other information known.

PNEC

No other information known.

Highly refined mineral oil (CAS: 64742-01-4)

Ingredient comments Oil Mist TWA: 5 mg /m3 (ACGIH).

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#### 8.2. Exposure controls

# Protective equipment













Appropriate engineering

controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Personal protection

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne

contamination occurs.

Thermal hazards

If there is a risk of contact with hot product, all protective equipment worn should be suitable for use with high 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. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

### SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance Liquid.

**Colour** Amber. Brownish.

Odour Characteristic.

Odour threshold No specific test data are available.

**pH** Scientifically unjustified.

Melting point No specific test data are available.

**Initial boiling point and range** No specific test data are available.

Flash point >=230°C OC (Open cup).

Evaporation rate

No specific test data are available.

Evaporation factor

No specific test data are available.

Flammability (solid, gas)

No specific test data are available.

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Upper/lower flammability or

explosive limits

No specific test data are available.

Other flammability

No specific test data are available.

Vapour pressure

No specific test data are available.

Vapour density

No specific test data are available.

Relative density

No specific test data are available.

Bulk density ~ 0,90 @ 15°C g/ml Solubility(ies) Insoluble in water.

Partition coefficient

No specific test data are available.

Auto-ignition temperature

No specific test data are available.

Decomposition Temperature

No specific test data are available.

**Viscosity** 135-165 cSt @ 40°C

**Explosive properties** No information available.

Explosive under the influence

of a flame

Not known.

Oxidising properties Not known.

**Comments** No other information known.

9.2. Other information

Other information No other information known. Refractive index No other information known. Particle size No other information known. Molecular weight No other information known. Volatility No other information known. Saturation concentration No other information known. Critical temperature No other information known. Volatile organic compound No other information known.

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

**Reactivity** This product is stable under normal conditions.

10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

# 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 excessive heat for prolonged periods of time. Avoid contact with strong oxidising

agents.

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### 10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

## 10.6. Hazardous decomposition products

Hazardous decomposition

products

Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of nitrogen. Sulfur oxides. Phosphor oxides. Thermal decomposition or combustion may generate smoke, carbon monoxide,

carbon dioxide, irritating vapors and other products of incomplete combustion.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

**Toxicological effects** Based on available data the classification criteria are not met.

Other health effects Based on available data the classification criteria are not met.

Acute toxicity - oral

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

Notes (oral LD<sub>50</sub>) 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<sub>50</sub>) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 298,953.66

Acute toxicity - inhalation

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

Notes (inhalation LC50) Based on available data the classification criteria are not met.

ATE inhalation (vapours mg/l) 498.26

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 Skin Sens. = Skin sensitisation

**Skin sensitisation** Sensitising. Supplier's information.

Germ cell mutagenicity

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

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**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

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

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

Toxicokinetics No other information known.

General information No other information known.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following

overexposure may include the following: Coughing.

**Ingestion** May cause discomfort if swallowed.

**Skin contact** Liquid may irritate skin.

**Eve contact** May cause temporary eye irritation.

Acute and chronic health

hazards

No other information known.

**Route of exposure** No other information known.

Target organs No specific target organs known.

Medical symptoms No other information known.

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Medical considerations No other information known.

Toxicological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Acute toxicity - oral

**Notes (oral LD50)** LD50 > 2000 mg/kg, Oral,

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Dermal,

Carcinogenicity

Summary The base oils in the product content contain less than 3% DMSO according to IP

346.

Highly refined mineral oil

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Oral,

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Dermal,

Exchangeable neutral oils

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅o) LD₅o >2000 mg/kg, Dermal, Rabbit

Distillates (petroleum), hydrotreated heavy naphthenic

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> >5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅o) LD₅o >5000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Species Rat

Notes (inhalation LC50) LC50 >5.53 mg/l, Inhalation, Rat

ATE inhalation

5.53

(dusts/mists mg/l)

Skin corrosion/irritation

**Summary** Not irritating. Supplier's information.

Serious eye damage/irritation

**Summary** Not irritating. Supplier's information.

Skin sensitisation

**Summary** Not sensitising. Supplier's information.

Germ cell mutagenicity

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Genotoxicity - in vitro Bacterial reverse mutation test: Negative. Chromosome aberration: Negative. Gene

mutation: Negative. Supplier's information.

**Genotoxicity - in vivo** Micronucleus Test: Negative. Supplier's information.

Carcinogenicity

**Summary** Based on available data the classification criteria are not met. Supplier's

information.

Reproductive toxicity

Reproductive toxicity -

fertility

Based on available data the classification criteria are not met. Supplier's

information.

Reproductive toxicity -

development

Based on available data the classification criteria are not met. Supplier's

information.

Phosphoric acid, mono- and bis(branched and linear pentyl) esters

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Oral, Rat

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. Gene mutation: Negative. Micronucleus

Test: Negative.

Reproductive toxicity

Reproductive toxicity -

fertility

Negative. Combined Repeated Dose Toxicity Study with the Reproduction/

Developmental Toxicity Screening Test - NOAEL 300 mg/kg, Oral, Rat

Reproductive toxicity - development

Negative. Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test - NOAEL: 300 mg/kg, Oral, Rat

Amines, C10-14-tert-alkyl

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> 612 mg/kg, Oral, Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Notes (dermal LD₅o) LD₅o 251 mg/kg, Dermal, Rat Repeated Dose: NOAEL 20 mg/kg, Dermal, Rat

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Notes (inhalation LC50) LC50 1,19 mg/l, Inhalation, Rat Repeated Dose: NOAEL 19 mg/m³, Inhalation, Rat

ATE inhalation (vapours

mg/l)

0.5

Skin corrosion/irritation

**Skin corrosion/irritation** Rabbit: Skin-Visible necrosis.

Serious eye damage/irritation

**Serious eye** Rabbit: Eyes- Visible necrosis.

damage/irritation

Skin sensitisation

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**Skin sensitisation** Guinea pig Skin Sens. = Skin sensitisation

Germ cell mutagenicity

**Genotoxicity - in vitro**Bacterial reverse mutation test: Negative. Gene mutation: Negative.

Reproductive toxicity

Reproductive toxicity -

fertility

One-generation study, Fertility - Negative, Oral, Rat

Reproductive toxicity -

development

One-generation study, Fertility -: Negative, Oral, Rat One-generation study,

Maternal toxicity: -: Positive, Oral, Rat

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

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> >10000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC50 >2,75 mg/l, Inhalation, Rat

Skin corrosion/irritation

**Skin corrosion/irritation** Moderately irritating. Rabbit Supplier's information.

Skin sensitisation

**Summary** Not sensitising. Supplier's information.

Germ cell mutagenicity

**Genotoxicity - in vitro**Bacterial reverse mutation test: Negative. Chromosome aberration: Negative.

Supplier's information.

# C16-18-(even numbered, saturated and unsaturated)- alkylamines

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> 1689 mg/kg, Oral, Rat

**ATE oral (mg/kg)** 500.0

Skin corrosion/irritation

Summary Rabbit: Skin-Visible necrosis.

Germ cell mutagenicity

**Genotoxicity - in vitro** : Negative.

Reproductive toxicity

Reproductive toxicity -

fertility

- Negative , Oral, Rat

Reproductive toxicity -

development

 $\label{eq:maternal} \textit{Maternal toxicity: -: Positive , Oral, Rat Developmental toxicity: -: Negative , Oral, \\$ 

Rat

Aspiration hazard

**Summary** Aspiration Hazard

## **GRAVIS M 150**

# Fuelsi diesel

Carcinogenicity

**Carcinogenicity** Known or suspected carcinogen for humans.

SECTION 12: Ecological information

Ecotoxicity Aquatic Chronic = Hazardous to the aquatic environment (chronic) Aquatic Chronic 3 - H412

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Ecotoxicity May be harmful to aquatic organisms. Spills form film layer on water surface and

prevent oxygen transfer

12.1. Toxicity

**Toxicity** Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity

**Summary** No other information known.

Acute toxicity - fish No other information known.

Acute toxicity - aquatic

invertebrates

No other information known.

Acute toxicity - aquatic plants No other information known.

Acute toxicity - No other information known.

microorganisms

Acute toxicity - terrestrial No other information known.

Chronic aquatic toxicity

**Summary** No other information known.

Chronic toxicity - fish early life No

stage

No other information known.

Short term toxicity - embryo

and sac fry stages

No other information known.

Chronic toxicity - aquatic

invertebrates

No other information known.

**Toxicity to soil** No other information known.

**Toxicity to terrestrial plants** No other information known.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy naphthenic

Acute aquatic toxicity

Acute toxicity - fish LL<sub>50</sub>, 96 hour: >100 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EL50, 48 hour: >1000 mg/l, Daphnia magna

Chronic aquatic toxicity

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Chronic toxicity - fish early NOEL, 14 day: 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)

life stage

Chronic toxicity - aquatic NOEL, 72 hour: >100 mg/l, Alg

invertebrates NOEL, 21 day: 10 mg/l, Daphnia magna

## Phosphoric acid, mono- and bis(branched and linear pentyl) esters

Acute aquatic toxicity

Acute toxicity - fish LL<sub>50</sub>, 96 hour: >100 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hour: 56 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EL50, 72 hour: >100 mg/l, Pseudokirchneriella subcapitata

Acute toxicity -

microorganisms

EC<sub>50</sub>, 3 hour: >1000 mg/l, Micro-organisms

Chronic aquatic toxicity

Chronic toxicity - aquatic

invertebrates

EL10, 72 hour: 24 mg/l, Alg

## Amines, C10-14-tert-alkyl

Acute aquatic toxicity

LE(C)50  $0.1 < L(E)C50 \le 1$ 

M factor (Acute)

Acute toxicity - fish LL<sub>50</sub>, 96 hours: 63,5 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EL50, 48 hour: 2,5 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EL50, 72 hour: 0,44 mg/l, Pseudokirchneriella subcapitata

Acute toxicity -

EL50, 30 minutes: 63,5 mg/l, Micro-organisms

microorganisms

Chronic aquatic toxicity

M factor (Chronic)

Chronic toxicity - fish early NOEC, 96 day: 0,078 mg/l, Oncorhynchus mykiss (Rainbow trout)

life stage

Chronic toxicity - aquatic

invertebrates

NOEL, 72 hours: 0,05 mg/l, Alg

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

Acute aquatic toxicity

Acute toxicity - aquatic

EC<sub>50</sub>, 48 hour: 41 mg/l, Daphnia magna

invertebrates

## C16-18-(even numbered, saturated and unsaturated)- alkylamines

## Acute aquatic toxicity

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LE(C)50  $0.01 < L(E)C50 \le 0.1$ 

M factor (Acute) 10

Acute toxicity - fish LL<sub>50</sub>, 96 hour: 0,06 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EL50, 48 hour: 0,011 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EL50, 96 hour: 0,04 mg/l, Algae

Acute toxicity -

EL50, 3 hour: 222,5 mg/l, Micro-organisms microorganisms

Chronic aquatic toxicity

M factor (Chronic) 10

Chronic toxicity - aquatic NOEL, 21 day: 0,013 mg/l, Daphnia magna

NOEL, 96 hour: 0,01 mg/l, Alg invertebrates

## 12.2. Persistence and degradability

Persistence and degradability No other information known. Phototransformation No other information known. Stability (hydrolysis) No other information known. **Biodegradation** No other information known. Biological oxygen demand No other information known. Chemical oxygen demand No other information known.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

**Biodegradation** Not expected to be readily biodegradable.

Distillates (petroleum), hydrotreated heavy naphthenic

Biodegradation Manometric Respirometry Test - Degradation 31 %: 28 day, OECD TG 301 F

Phosphoric acid, mono- and bis(branched and linear pentyl) esters

Carbon dioxide formation - 45 %: 28 day, OECD TG 301B Biodegradation

Amines, C10-14-tert-alkyl

Biodegradation Closed Bottle Test - Degradation 21,8%: 28 day, OECD TG 301 D

C16-18-(even numbered, saturated and unsaturated)- alkylamines

Biodegradation Carbon dioxide formation - Degradation 66 %: 28 day, OECD TG 301B

12.3. Bioaccumulative potential

Bioaccumulative potential No other information known.

Partition coefficient No specific test data are available.

## **GRAVIS M 150**

## Ecological information on ingredients.

## Distillates (petroleum), hydrotreated heavy paraffinic

Bioaccumulative potential Potentially bioaccumulating.

Amines, C10-14-tert-alkyl

Bioaccumulative potential log Pow: 2,9,

12.4. Mobility in soil

**Mobility** The product is immiscible with water and will spread on the water surface.

Adsorption/desorption

coefficient

No other information known.

Henry's law constant

No other information known.

Surface tension

No other information known.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Mobility Liquid under most environmental conditions. Floats on water. If spread into ground

the groundwater may be polluted.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

Not applicable.

assessment

Ecological information on ingredients.

Fuelsi diesel

**Results of PBT and vPvB** This product does not contain any substances classified as PBT or vPvB.

assessment

12.6. Other adverse effects

Other adverse effects No other information known.

**SECTION 13: Disposal considerations** 

13.1. Waste treatment methods

**General information** The generation of waste should be minimised or avoided wherever possible.

**Disposal methods**Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority. Reuse or recycle products wherever possible. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials

should be collected in designated containers, labelled with their contents.

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).

14.1. UN number

## **GRAVIS M 150**

Not applicable.

## 14.2. UN proper shipping name

Not applicable.

## 14.3. Transport hazard class(es)

No transport warning sign required.

## 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

## Environmentally hazardous substance/marine pollutant

No.

## 14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

## 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

**EU legislation** https://echa.europa.eu

Commission Regulation (EU) No 453/2010 of 20 May 2010.

**Guidance** Safety Data Sheets for Substances and Preparations.

Health and environmental

listings

Hazardous ingredients are listed.

# 15.2. Chemical safety assessment

## **SECTION 16: Other information**

Abbreviations and acronyms used in the safety data sheet

T.C.: Republic of Turkey DMSO: Dimethyl sulfoxide

KKE: Personal protective aquipment

E.U.: European union

UZEM: National Poison Information Center

DNEL: Derived No Effect Level.

CAS: Chemical Abstracts Service.

Kow: Octanol-water partition coefficient.

LC50: Lethal Concentration to 50 % of a test population.

LD₅o: Lethal Dose to 50% of a test population (Median Lethal Dose).

PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006.

### **GRAVIS M 150**

Classification abbreviations

Skin Sens. = Skin sensitisation

and acronyms

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Asp. Tox. = Aspiration hazard Acute Tox. = Acute toxicity Skin Corr. = Skin corrosion Eye Dam. = Serious eye damage

STOT SE = Specific target organ toxicity-single exposure Aquatic Acute = Hazardous to the aquatic environment (acute) STOT RE = Specific target organ toxicity-repeated exposure

General information

Only trained personnel should use this material. MSDS Distribution: The information in this document should be made available to all who may handle the product. 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. 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

Skin Sens. 1 - H317: Calculation method., Supplier information Aquatic Chronic 3 - H412:

Calculation method., Supplier information

**Training advice** Untrained personnel should not use.

**Revision comments** Revised classification. Adding content information.

Issued by Sevda ŞAHAN Certified Safety Data Sheet Preparer (Certificate Id:GBF01.23.08;Dates:

03.11.2018-03.11.2021)

Revision date 17/02/2020

Revision 3

 Supersedes date
 17/06/2011

 SDS number
 10037

Hazard statements in full H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer if swallowed.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed or if

inhaled.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.