

SAFETY DATA SHEET GRAVIS M 320

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

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

1.1. Product identifier

Product name GRAVIS M 320

Product number 28155

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

Identified uses Industrial oil

Uses advised againstUse 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

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 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.



According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

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 20-25%

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

2119484627-25-0033

Classification

Not Classified

Distillates (petroleum), hydrotreated heavy naphthenic

<1%

Classification

Not Classified

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

<1%

CAS number: — EC number: 282-784-6

Classification

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



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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

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

<1%

peroxide and tert-nonanethiol

CAS number: — EC number: 293-927-7

Classification

Aquatic Chronic 3 - H412

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

<1%

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.



According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (ÉÙ) 2020/878 of 18 June 2020.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information If in doubt, get medical attention promptly.

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

General information Treat symptomatically. 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 Treat symptomatically. Specific treatments Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

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 Carbon dioxide (CO2). Carbon monoxide (CO). Oxides of nitrogen. Sulphur oxides. Oxides of

phosphorus. Unidentified organic or inorganic compounds.

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

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



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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

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

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 Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

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 11 for additional

information on health hazards. See Section 1 for emergency contact information. 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

Do not eat, drink or smoke when using this product. Persons susceptible to allergic reactions should not

handle this product. Provide shower facilities near the workplace.

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 Not applicable.

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: TWA: 5 mg/m3, 8 hours [EH-40 MEL, (Europe,2002)]

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.



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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

Distillates (petroleum), hydrotreated heavy naphthenic

TLV/TWA 5 mg/m3

Ingredient comments If this product contains a component with exclusion limits, to determine the effectiveness of ventilation and

other control measures; and / or the necessity of the use of respiratory protective devices, the working environment or biological measurement and monitoring of employees may be required. The European Standard EN 689 and the relevant national guidelines should be taken as reference for the detection

methods for assessing exposure to inhalation of chemicals of hazardous substances.

Biological limit values There is no available data.

DNEL There is no available data.

DMEL There is no available data.

PNEC There is no available data.

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

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

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.

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.

high temperatures.

Environmental exposure controls Residues and empty containers should be taken care of as hazardous waste according to local and

national provisions. Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties



According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

Appearance Liquid.

Colour Brownish.

Odour Characteristic.

Odour threshold Inconclusive data.

pН Scientifically unjustified.

Melting point Inconclusive data.

Initial boiling point and range Inconclusive data.

Flash point > 240°C OC (Open cup).

Evaporation rate Inconclusive data.

Evaporation factor Inconclusive data.

Flammability (solid, gas) Inconclusive data.

Upper/lower flammability or

explosive limits

Inconclusive data.

Inconclusive data. Other flammability

Vapour pressure Inconclusive data.

Vapour density Inconclusive data.

Relative density Inconclusive data.

~ 0,90 g/ml @ 15°C **Bulk density**

Solubility(ies) Insoluble in water.

Partition coefficient Inconclusive data.

Auto-ignition temperature Inconclusive data.

Decomposition Temperature Inconclusive data.

Viscosity 288-352 cSt @ 40°C

Explosive properties Inconclusive data.

Explosive under the influence of a Not considered to be explosive.

flame

Oxidising properties No data available.

Comments Information declared as "Not available" or "Not applicable" is not considered to be relevant to the

implementation of the proper control measures.

Particle characteristic

9.2. Other information

Other information No information required.

Refractive index Inconclusive data. Particle size Inconclusive data.



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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

Molecular weightInconclusive data.VolatilityInconclusive data.Saturation concentrationInconclusive data.Critical temperatureInconclusive data.Volatile organic compoundInconclusive data.

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

10.5. Incompatible materials

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

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

Information on hazard classes as defined in Regulation (EC) No

1272/2008

Other health effects No relevant information available.

Toxicological effects Information given is based on product data, a knowledge of the components and the toxicology of similar

products.

Acute toxicity - oral

Summary

Based on available data the classification criteria are not met.

Notes (oral LD₅o)

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 LD₅₀) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 300,000.0

Acute toxicity - inhalation



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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (ÉÙ) 2020/878 of 18 June 2020.

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

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

ATE inhalation (vapours mg/l) 500.0

Skin corrosion/irritation

Summary Expected to be slightly irritant.

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 Eye contact may cause irritation.

Based on available data the classification criteria are not met. Serious eye damage/irritation

Respiratory sensitisation

Summary Mist may cause slight irritation if inhaled.

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

Skin sensitisation

Summary Skin Sens. 1 - H317

Sensitising. Skin sensitisation

Germ cell mutagenicity

Summary It is not expected to cause genetic damage in the light of current data.

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

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

Carcinogenicity

The base oils in the product content contain less than 3% DMSO according to IP 346. Summary

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

Target organ for carcinogenicity No specific target organs known.

IARC carcinogenicity Not listed. Not listed. NTP carcinogenicity

Reproductive toxicity

There is no test data indicating that this product has a toxic effect on the reproductive system. 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

Specific target organ toxicity - single exposure

Summary There is no available data



According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

STOT - single exposureBased on available data the classification criteria are not met.

Target organs No specific target organs known.

Specific target organ toxicity - repeated exposure

Summary There is no available data.

STOT - repeated exposureBased 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 Based on available data the classification criteria are not met.

Toxicokinetics No information is required.

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.

Eye contact May cause temporary eye irritation.

Acute and chronic health hazards There is not enough data.

Route of exposure There is no available data.

Target organs

No specific target organs known.

Medical symptoms

No specific tes data are available.

Medical considerations

No specific tes data are available.

11.2 Information on other hazards

Information on other hazards

Toxicological information on ingredients.

Highly refined mineral oil

Acute toxicity - oral

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

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal,

Distillates (petroleum), hydrotreated heavy paraffinic

Acute toxicity - oral

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

Acute toxicity - dermal



According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal,

Carcinogenicity

Summary The base oils in the product content contain less than 3% DMSO according to IP 346.

Exchangeable neutral oils

Acute toxicity - oral

Notes (oral LD₅o) LD₅o >2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >2000 mg/kg, Dermal, Rabbit

Distillates (petroleum), hydrotreated heavy naphthenic

Acute toxicity - oral

Notes (oral LD₅o) LD₅o >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 (dusts/mists

mg/l)

5.53

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

Genotoxicity - in vitroBacterial 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.



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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

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

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >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 LD₅₀) LD₅₀ 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 LC₅o) 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 damage/irritation Rabbit: Eyes- Visible necrosis.

Skin sensitisation

Skin sensitisation Guinea pig Skin Sens. = Skin sensitisation

Germ cell mutagenicity

Genotoxicity - in vitroBacterial reverse mutation test: Negative. Gene mutation: Negative.

Reproductive toxicity

Reproductive toxicity - fertility One-generation study, Fertility - Negative , Oral, Rat

Reproductive toxicity - One-generation study, Fertility - : Negative , Oral, Rat One-generation study, Maternal toxicity:

development -: Positive, Oral, Rat

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

Acute toxicity - oral



GRAVIS M 320

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

Notes (oral LD₅₀) LD₅₀ >10000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >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 LD50) LD50 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

Maternal toxicity: -: Positive, Oral, Rat Developmental toxicity: -: Negative, Oral, Rat

Aspiration hazard

Summary Aspiration Hazard

Fuelsi diesel

Carcinogenicity

Carcinogenicity Known or suspected carcinogen for humans.

SECTION 12: Ecological information

Ecotoxicity Aquatic Chronic 3 - H412

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic



According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (ÉÙ) 2020/878 of 18 June 2020.

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 - microorganisms No other information known. Acute toxicity - terrestrial No other information known.

Chronic aquatic toxicity

Summary No other information known.

Chronic toxicity - fish early life

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 LL₅₀, 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

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

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

LL₅₀, 96 hour: >100 mg/l, Oncorhynchus mykiss (Rainbow trout) Acute toxicity - fish



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Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hour: 56 mg/l, Daphnia magna

Acute toxicity - aquatic plants EL50, 72 hour: >100 mg/l, Pseudokirchneriella subcapitata

Acute toxicity -

EC₅₀, 3 hour: >1000 mg/l, Micro-organisms

microorganisms

Chronic aquatic toxicity

Chronic toxicity - aquatic

invertebrates

EL10, 72 hour: 24 mg/l, Alg

Amines, C10-14-tert-alkyl

Acute aquatic toxicity

0.1 < L(E)C50 ≤ 1 LE(C)50

M factor (Acute)

Acute toxicity - fish LL₅₀, 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 microorganisms EL50, 30 minutes: 63,5 mg/l, Micro-organisms

Chronic aquatic toxicity

M factor (Chronic)

stage

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

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

invertebrates

EC₅₀, 48 hour: 41 mg/l, Daphnia magna

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

Acute aquatic toxicity

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

M factor (Acute)

Acute toxicity - fish LL₅₀, 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



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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

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

12.2. Persistence and degradability

Persistence and degradability There are not enough test data. It is not expected that the product may be readily biodegradable based on

the ingredients of this product.

Phototransformation Inconclusive data.

Stability (hydrolysis) Inconclusive data.

Biodegradation Not readily biodegradable.

Biological oxygen demand Inconclusive data.

Chemical oxygen demand Inconclusive data.

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

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

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 Potentially bioaccumulating.

Partition coefficient Inconclusive data.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Bioaccumulative potential Potentially bioaccumulating.



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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

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 Inconclusive data.

Henry's law constant Inconclusive data.

Surface tension Inconclusive data.

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

assessment

Not applicable.

12.6 Endocrine disrupting

properties

Endocrine disrupting properties

Ecological information on ingredients.

Fuelsi diesel

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Films formed on water may affect oxygen transfer and damage organisms.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Disposal methodsDispose 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



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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

UN number or ID number

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

Maritime transport in bulk according to IMO instruments

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

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

Not applicable.

SECTION 16: Other information



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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

Abbreviations and acronyms used E.U.: European union

DMSO: Dimethyl sulfoxide

in the safety data sheet

SINGO: Diffictify sufficient

KKE: Personal protective aquipment

T.C.: Republic of Turkey

UZEM: National Poison Information Center

CAS: Chemical Abstracts Service.
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.
PBT: Persistent, Bioaccumulative and Toxic substance.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No

1907/2006

vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and

acronyms

STOT RE = Specific target organ toxicity-repeated exposure

Skin Corr. = Skin corrosion
Eye Dam. = Serious eye damage
Acute Tox. = Acute toxicity
Skin Sens. = Skin sensitisation

Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)

General information

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

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

method., Supplier information

Training advice Untrained personnel should not use.

Revision comments Revised classification.

Issued by Ece Korkut Safety and Data Sheet Specialist (Certificate No: GBF01.54.04 26.06.2024)

Revision date 07/02/2024

Revision 5

Supersedes date 17/06/2011
SDS number 10039
SDS status Approved.



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According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020.

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.