

Safety Data Sheet dated 1/10/2024, version 17

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

1.1. Product identifier

Mixture identification:

Trade name: DETERGENTE MOTORI

Trade code: 8380

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

Recommended use: Car engine detergent Uses advised against:

Strictly adhere to the recommended uses.

1.3. Details of the supplier of the safety data sheet

Supplier:

Arexons S.p.A.

via Antica di Cassano, 23, 20063 Cernusco sul Naviglio (MI), Italy

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Competent person responsible for the safety data sheet:

arexons@arexons.it

1.4. Emergency telephone number

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306 In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111
In Ireland: emergency number 112

In South Africa: Poison Information Helpline 0861 555 777

In Malta: emergency number 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

♦ Warning, Skin Irrit. 2, Causes skin irritation.

Danger, Eye Dam. 1, Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P264 Wash hands thoroughly after handling.

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



P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER.

Special Provisions:

PACK1 The packing must be featured by a safety lock for children.

PACK2 The packing must have tactive indications of danger for blind people.

Contains

Alcohols, C9-11-iso-, C10-rich, ethoxylated tetrasodium ethylene diamine tetraacetate

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

Regulation (EC) nr 648/2004 (detergents).

Product contents:

EDTA and salts thereof < 5 % Non-ionic surfactants 5 - 15 %

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

stta	Name	Ident. Number		Classification
>= 7% - < 10%	Alcohols, C9-11-iso-, C10-rich, ethoxylated	CAS:	78330-20-8	
>= 3% - < 5%	Dipropylen glycol methyl ether	CAS: EC: REACH No.:	34590-94-8 252-104-2 01- 2119450011 -60	Substance with a Union workplace exposure limit.
>= 2% - < 3%	tetrasodium ethylene diamine tetraacetate	Index number: CAS: EC: REACH No.:	64-02-8 200-573-9	
>= 0,05% - < 0,1%	sodium hydroxide; caustic soda	Index number: CAS: EC: REACH No.:	1310-73-2 215-185-5	 ◆ 3.2/1A Skin Corr. 1A H314 ◆ 3.3/1 Eye Dam. 1 H318 ◆ 2.16/1 Met. Corr. 1 H290 Specific Concentration Limits: C >= 5%: Skin Corr. 1A H314 2% <= C < 5%: Skin Corr. 1B H314 0,5% <= C < 2%: Skin Irrit. 2 H315 0,5% <= C < 2%: Eye Irrit. 2 H319



SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Appropriate Extinguishing Media:

To carbon dioxide.

To dust.

Foam

Water spray.

Not Recommended Extinguishing Media:

Do not use direct water jets.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Normal fire-fighting clothing, such as an open-circuit compressed air breathing apparatus (EN 137), flame-resistant suit (EN469), flame-resistant gloves (EN 659) and firefighter's boots (HO A29 or A30).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.



In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

For cleaning up:

Avoid flame and/or spark near leak and produced waste. Do not smoke. In case of large spills dike.

absorb and shovel up into suitable containers for disposal. Contain small spills with absorbent material.

Put dirty material in suitable container. Dispose of dirty material in accordance with local or national

regulations.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Only store in the original container.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Dipropylen glycol methyl ether - CAS: 34590-94-8

20101.10 - TWA(8h): 308 mg/m3, 50 ppm

EU - TWA(8h): 308 mg/m3, 50 ppm - Notes: Skin

ACGIH - TWA(8h): 50 ppm - Notes: Liver & CNS eff

tetrasodium ethylene diamine tetraacetate - CAS: 64-02-8

20101.12 - TWA: 5 mg/m3

sodium hydroxide; caustic soda - CAS: 1310-73-2

20101.10 - TWA: 2 mg/m3

ACGIH - STEL: Ceiling 2 mg/m3 - Notes: URT, eye, and skin irr

DNEL Exposure Limit Values

Dipropylen glycol methyl ether - CAS: 34590-94-8

Consumer: 36 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects Worker Professional: 308 mg/m3 - Consumer: 37.2 mg/m3 - Exposure: Human Inhalation

- Frequency: Long Term, systemic effects

Worker Professional: 283 mg/kg - Consumer: 121 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

adiana attaulana dianaina tatna aatata . CAC: CA

tetrasodium ethylene diamine tetraacetate - CAS: 64-02-8

Worker Industry: 1.5 mg/m3 - Consumer: 1.7 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

sodium hydroxide; caustic soda - CAS: 1310-73-2



Worker Professional: 1 mg/m3 - Consumer: 1 mg/m3 - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

Dipropylen glycol methyl ether - CAS: 34590-94-8

Target: Fresh Water - Value: 19 mg/l Target: Marine water - Value: 1.9 mg/l

Target: Marine water sediments - Value: 7.02 mg/kg Target: Freshwater sediments - Value: 70.2 mg/kg

Target: 09 - Value: 4168 mg/l

tetrasodium ethylene diamine tetraacetate - CAS: 64-02-8

Target: Fresh Water - Value: 2.86 mg/l Target: Marine water - Value: 0.286 mg/l

Target: 08 - Value: 1.56 mg/l

Target: Soil (agricultural) - Value: 0.937 mg/kg

Target: 09 - Value: 55.94 mg/l

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Compliant with EN 166

Protection for skin:

protective clothing

Protection for hands:

Nitrile or Viton gloves. Compliant with EN 374.

Thickness: Cuff 0.10 mm; Palm 0.12 mm; Fingers 0.145 mm

Respiratory protection:

Use a suitable respiratory protection device.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Liquid		
Colour:	Light yellow		
Odour:	Characteristic		
Melting point/freezing point:	N.A.		
Boiling point or initial boiling point and boiling range:	100 °C	ASTM D2887	
Flammability:	N.A.		
Lower and upper explosion limit:	N.A.		
Flash point:	N.A.		



Auto-ignition temperature:	N.A.			
Decomposition temperature:	N.A.			
pH:	12.5	ASTM D1287		
Kinematic viscosity:	N.A.			
Solubility in water:	Soluble			
Solubility in oil:	N.A.			
Partition coefficient n-octanol/water (log value):	N.A.	_		
Vapour pressure:	N.A.			
Density and/or relative density:	1,030	ASTM D 4052-96		
Relative vapour density:	N.A.			
Particle characteristics:				
Particle size:	N.A.			

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

DETERGENTE MOTORI

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2 H315

Test: Skin Corrosive - Route: Skin - Species: RHE 84.5 % - Duration: 3min - Based on

available data, the classification criteria are not met

Test: Skin Corrosive - Route: Skin - Species: RHE 66 % - Duration: 1h - Based on



available data, the classification criteria are not met

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met Toxicological information of the main substances found in the product:

Dipropylen glycol methyl ether - CAS: 34590-94-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 9150 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 3.35 mg/l - Duration: 7h

b) skin corrosion/irritation:

Test: OECD TG 404 - Species: Rabbit Negative

tetrasodium ethylene diamine tetraacetate - CAS: 64-02-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 1780 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 1-5 mg/l - Duration: 4h

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Negative

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Positive

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Species: IND Negative

g) reproductive toxicity:

Test: NOAEL - Species: Rat > 250 mg/kg

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Alcohols, C9-11-iso-, C10-rich, ethoxylated - CAS: 78330-20-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1 mg/l - Notes: OECD TG 203 Endpoint: EC50 - Species: Daphnia > 1 mg/l - Notes: OECD TG 202 Endpoint: EC50 - Species: Algae > 1 mg/l - Notes: OECD TG 201



Dipropylen glycol methyl ether - CAS: 34590-94-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 Endpoint: LC50 - Species: Daphnia 1919 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae > 969 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia 0.5 mg/l - Duration h: 528 Endpoint: LOEC - Species: Daphnia 0.5 mg/l - Duration h: 528

c) Bacteria toxicity:

Endpoint: CE5 - Species: batteri 4168 mg/l - Duration h: 18 tetrasodium ethylene diamine tetraacetate - CAS: 64-02-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia 140 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 25.7 mg/l - Duration h: 840 Endpoint: NOEC - Species: Daphnia > 25 mg/l - Duration h: 504 sodium hydroxide; caustic soda - CAS: 1310-73-2

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia 40.4 mg/l - Duration h: 48

12.2. Persistence and degradability

None

Alcohols, C9-11-iso-, C10-rich, ethoxylated - CAS: 78330-20-8

Biodegradability: Readily biodegradable

Dipropylen glycol methyl ether - CAS: 34590-94-8

Biodegradability: Readily biodegradable - Duration: 28gg - %: 75

tetrasodium ethylene diamine tetraacetate - CAS: 64-02-8

Biodegradability: Non-readily biodegradable

12.3. Bioaccumulative potential

Alcohols, C9-11-iso-, C10-rich, ethoxylated - CAS: 78330-20-8

Bioaccumulation: Not bioaccumulative

Dipropylen glycol methyl ether - CAS: 34590-94-8

Test: log Pow 0.006

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Additional disposal information:

"Use in accordance with good working practices, avoiding dispersal in the environment. Do not discharge into drains, ground water or water courses. Comply with current legislation on the protection of water and soil from pollution (Legislative Decree No. 152 of 3/4/2006). Dispose of used product and containers by handing them over to authorised companies, in accordance with the provisions of

Legislative Decree No. 152/2006 (Consolidated Environmental Act, which replaced the Ronchi Decree) as amended.

The used product is to be considered special waste to be classified in accordance with Directive No. 2008/98/EC on waste and related matters. Recover if possible. Send to authorised disposal



plants or incineration under controlled conditions (152/2006 art. 184). Act in accordance with the local and national laws in force. Contaminated packaging must be emptied as far as possible. After cleaning, send to an authorised centre for recycling or disposal."

SECTION 14: Transport information

14.1. UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

ADR-Environmental Pollutant: No IMDG-Marine pollutant: No

14.6. Special precautions for user

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 2020/878

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3



Restrictions related to the substances contained: Restriction 75

Volatile Organic compounds - VOCs = 4.50 %

Volatile Organic compounds - VOCs = 45.00 g/Kg

Volatile Organic compounds - VOCs = 46.35 g/l

Where applicable, refer to the following regulatory provisions:

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture. Substances for which a Chemical Safety Assessment has been carried out: tetrasodium ethylene diamine tetraacetate

SECTION 16: Other information

Text of phrases referred to under heading 3:

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

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

H314 Causes severe skin burns and eye damage.

H290 May be corrosive to metals.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification

8380/17

Page n. 10 of 11



Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,

Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of

Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

CAS: Chemical Abstracts Service (division of the American Chemical

Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of

Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport

Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization"

(ICAO).

IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

NA: Not applicable

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods

by Rail.

STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWA: Time-weighted average
WGK: German Water Hazard Class.