

**Safety Data Sheet**  
**PETRONAS Durance IGIENIZZANTE CASCO**  
**/HELMET PURIFIER**



**Safety Data Sheet dated 3/7/2019, version 5**

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

1.1. Product identifier

Mixture identification:

Trade name: PETRONAS Durance IGIENIZZANTE CASCO /HELMET  
PURIFIER

Trade code: 8563

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

Recommended use:

Anti-dust treatment

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

Centro Antiveleni di Pavia IRCCS- Fondazione Maugeri tel. +39 (0)382 24444 (h24; it, en)

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

In Ireland: Beaumont Hospital - National Poisons Information Centre 01 809 2166 (7days, 8:00 - 22:00)

In South Africa: Poison Information Helpline 0861 555 777

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**SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

⚠ Warning, Flam. Liq. 3, Flammable liquid and vapour.

⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements:

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

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P370+P378 In case of fire, use a foam fire extinguisher to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

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

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

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### 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:

>= 10% - < 12.5% Isopropyl alcohol

REACH No.: 01-2119457558-25, Index number: 603-117-00-0, CAS: 67-63-0, EC: 200-661-7

⚠ 2.6/2 Flam. Liq. 2 H225

⚠ 3.3/2 Eye Irrit. 2 H319

⚠ 3.8/3 STOT SE 3 H336

>= 0.1% - < 0.25% Quaternary ammonium compounds, benzyl C12-16 (even numbered)-alkyldimethyl chlor

REACH No.: 01-2119970550-39, CAS: 68424-85-1, EC: 939-253-5

⚠ 2.16/1 Met. Corr. 1 H290

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.2/1B Skin Corr. 1B H314

⚠ 3.3/1 Eye Dam. 1 H318

⚠ 4.1/A1 Aquatic Acute 1 H400 M=10.

⚠ 4.1/C1 Aquatic Chronic 1 H410

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### 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.

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 ophthalmologist 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

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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

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### 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

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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### SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

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

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

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### 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:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Store in hermetically sealed containers, preferably in a cool place, away from sources of heat and direct sunlight.

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Do not store this material near food and drinks.

Always keep in a well ventilated place.

Store at below 50 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

#### 7.3. Specific end use(s)

None in particular

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Isopropyl alcohol - CAS: 67-63-0

20101.11 - TWA: 983 mg/m<sup>3</sup>, 400 ppm

20101.12 - TWA: 492 mg/m<sup>3</sup>, 200 ppm

ACGIH - TWA(8h): 200 ppm - STEL: 400 ppm - Notes: A4, BEI - Eye and URT irr, CNS impair

### DNEL Exposure Limit Values

Isopropyl alcohol - CAS: 67-63-0

Worker Professional: 888 mg/kg - Consumer: 319 mg/kg - Exposure: Human Dermal - Frequency: Long Term (repeated)

Worker Professional: 500 mg/m<sup>3</sup> - Consumer: 89 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term (repeated)

Consumer: 26 mg/kg - Exposure: Human Oral - Frequency: Long Term (repeated)

### PNEC Exposure Limit Values

Isopropyl alcohol - CAS: 67-63-0

Target: Fresh Water - Value: 140.9 mg/l

Target: Fresh Water - Value: 140.9 mg/l

Target: Freshwater sediments - Value: 552 mg/l

Target: Soil (agricultural) - Value: 28 mg/kg

Target: Microorganisms in sewage treatments - Value: 2251 mg/l

### 8.2. Exposure controls

#### Eye protection:

Eye glasses with side protection.

Compliant with EN 166

#### Protection for skin:

No special precaution must be adopted for normal use.

#### Protection for hands:

Nitrile or Viton gloves.

Compliant with EN 374.

#### Respiratory protection:

Not needed for normal use.

#### Thermal Hazards:

None

#### Environmental exposure controls:

None

#### Appropriate engineering controls:

None

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## SECTION 9: Physical and chemical properties

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

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Properties	Value	Method:	Notes:	PETRONAS
Appearance and colour:	Liquid Colourless	--	--	
Odour:	Characteristic	--	--	
Odour threshold:	N.A.	--	--	
pH:	7.59	--	--	
Melting point / freezing point:	N.A.	--	--	
Initial boiling point and boiling range:	N.A.	--	--	
Flash point:	37.5	--	--	
Evaporation rate:	N.A.	--	--	
Solid/gas flammability:	N.A.	--	--	
Upper/lower flammability or explosive limits:	N.A.	--	--	
Vapour pressure:	N.A.	--	--	
Vapour density:	N.A.	--	--	
Relative density:	0,984 approx.	--	--	
Solubility in water:	Soluble	--	--	
Solubility in oil:	N.A.	--	--	
Partition coefficient (n-octanol/water):	N.A.	--	--	
Auto-ignition temperature:	N.A.	--	--	
Decomposition temperature:	N.A.	--	--	
Viscosity:	N.A.	--	--	
Explosive properties:	N.A.	--	--	
Oxidizing properties:	N.A.	--	--	

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--

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Conductivity:	N.A.	--	--	<b>PETRONAS</b>
Substance Groups relevant properties	N.A.	--	--	

NA=not applicable

### SECTION 10: Stability and reactivity

- 10.1. Reactivity  
Stable under normal conditions
- 10.2. Chemical stability  
Stable under normal conditions
- 10.3. Possibility of hazardous reactions  
None
- 10.4. Conditions to avoid  
Stable under normal conditions.
- 10.5. Incompatible materials  
Avoid contact with combustible materials. The product could catch fire.
- 10.6. Hazardous decomposition products  
None.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Toxicological information of the product:

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##### a) acute toxicity

Based on available data, the classification criteria are not met

##### b) skin corrosion/irritation

Based on available data, the classification criteria are not met

##### c) serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319

##### d) respiratory or skin sensitisation

Based on available data, the classification criteria are not met

##### e) germ cell mutagenicity

Based on available data, the classification criteria are not met

##### f) carcinogenicity

Based on available data, the classification criteria are not met

##### g) reproductive toxicity

Based on available data, the classification criteria are not met

##### h) STOT-single exposure

Based on available data, the classification criteria are not met

##### i) STOT-repeated exposure

Based on available data, the classification criteria are not met

##### j) aspiration hazard

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Isopropyl alcohol - CAS: 67-63-0

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a) acute toxicity:

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

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 10000 Ppm - Duration: 6h

Quaternary ammonium compounds, benzyl C12-16 (even numbered)-alkyldimethyl chlor - CAS: 68424-85-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 426 mg/kg

Test: LD50 - Route: Skin - Species: Rat 400-2000 mg/kg

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Isopropyl alcohol - CAS: 67-63-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 4200 mg/l - Duration h: 96

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 48

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72

Quaternary ammonium compounds, benzyl C12-16 (even numbered)-alkyldimethyl chlor - CAS: 68424-85-1

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae 670 µg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 5.9 ppb - Duration h: 48

Endpoint: LC50 - Species: Fish 0.28 Ppm - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia 0.025 mg/l - Duration h: 504

### 12.2. Persistence and degradability

None

Isopropyl alcohol - CAS: 67-63-0

Biodegradability: Readily biodegradable - Duration: .10gg - %: 70

Quaternary ammonium compounds, benzyl C12-16 (even numbered)-alkyldimethyl chlor - CAS: 68424-85-1

Biodegradability: Readily biodegradable - Test: BIOGDG08 - Duration: 28gg - %: 61

### 12.3. Bioaccumulative potential

N.A.

### 12.4. Mobility in soil

N.A.

### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

### 12.6. Other adverse effects

None

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## 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:

Reuse if possible. Act in accordance with the local and national laws in force.

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## SECTION 14: Transport information

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- 14.1. UN number  
ADR-UN Number: 1987  
IATA-UN Number: 1987  
IMDG-UN Number: 1987
- 14.2. UN proper shipping name  
ADR-Shipping Name: ALCOHOLS, N.O.S.  
ADR-Shipping Name: ALCOHOLS NAS (IPA, ETOH)  
IATA-Shipping Name: ALCOHOLS, N.O.S.  
IMDG-Shipping Name: ALCOHOLS, N.O.S.
- 14.3. Transport hazard class(es)  
ADR-Class: 3  
ADR - Hazard identification number: 30  
IATA-Class: 3  
IATA-Label: 3  
IMDG-Class: 3  
Sea (IMO): 3
- 14.4. Packing group  
ADR-Packing Group: III  
IATA-Packing group: III  
IMDG-Packing group: III
- 14.5. Environmental hazards  
ADR-Environmental Pollutant: No  
IMDG-Marine pollutant: No
- 14.6. Special precautions for user  
ADR-Subsidiary hazards: -  
ADR-S.P.: 274 601  
ADR-Transport category (Tunnel restriction code): 3 (D/E)  
IATA-Passenger Aircraft: 355  
IATA-Subsidiary hazards: -  
IATA-Cargo Aircraft: 366  
IATA-S.P.: A3 A180  
IATA-ERG: 3L  
IMDG-EmS: F-E,  
S-D  
IMDG-Subsidiary hazards: -  
IMDG-Stowage and handling: Category A  
IMDG-Segregation: -
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code  
No  
Limited Quantity: 5 L  
Exempted Quantity: E1

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**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) 2015/830  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)

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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)

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

Restriction 40

Restrictions related to the substances contained:

No restriction.

Volatile Organic compounds - VOCs = 10.01 %

Volatile Organic compounds - VOCs = 100.05 g/Kg

Volatile Organic compounds - VOCs = 98.35 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

Product belongs to category: P5c

#### 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:

None

## SECTION 16: Other information

Text of phrases referred to under heading 3:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B

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Eye Dam. 1	3.3/1	Serious eye damage, Category 1	<b>PETRONAS</b>
Eye Irrit. 2	3.3/2	Eye irritation, Category 2	
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3	
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1	
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1	

Paragraphs modified from the previous revision:

SECTION 3: Composition/information on ingredients  
 SECTION 7: Handling and storage  
 SECTION 11: Toxicological information  
 SECTION 12: Ecological information  
 SECTION 14: Transport information  
 SECTION 15: Regulatory information

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

<b>Classification according to Regulation (EC) Nr. 1272/2008</b>	<b>Classification procedure</b>
Flam. Liq. 3, H226	On basis of test data
Eye Irrit. 2, H319	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.

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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.