

# SAFETY DATA SHEET



APOLON INVEST BG

Print date: June 01, 2020

Version: 1 EN

*APOLO Sept Ultra*

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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier:

Product name: *APOLO Sept Ultra*

### 1.2. Identified significant uses and not recommended uses of the substance or the mixture:

Biocide: Main group 1 - Disinfectants. Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals. Product type 4 - Field of use related to food and fodder.

### 1.3. Details of the supplier of the safety data sheet

APOLON INVEST BG OOD (Ltd.)

Sofia, 7 Mayor Gortalov Street,

Phone: +359 2 957 63 19, e-mail: [office@apoloninvest.com](mailto:office@apoloninvest.com)

### 1.4. Emergency telephone number

Clinic of Toxicology, University Multiprofile Hospital for Active Treatment and Emergency Medicine (UMHATEM) "N.I. Pirogov"

Tel. +359 2 9154 409 (24/7)

[poison\\_centre@mail.orbitel.bg](mailto:poison_centre@mail.orbitel.bg) ; <http://www.pirogov.bg>

## SECTION 2: DESCRIPTION OF THE HAZARDS

### 2.1. Classification of the substance/mixture:

The product is classified as hazardous in accordance with the provisions of EU Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product requires a safety data sheet in accordance with the provisions of Regulation EU 1907/2006 (REACH).

#### 2.1.1. Hazard classes and categories:

Acute toxicity (oral), hazard category 4, H302

Skin corrosion/irritation, hazard category 1B, H314

Serious eye damage, category 1, H318

Acute aquatic hazard, category 1, H400

Chronic aquatic hazard, category 2, H411

### 2.2. Label elements:

Pictograms:

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GHS05

GHS09

Signal word: Danger

## Hazard warnings:

H302 Harmful if swallowed.

H314 Causes severe skin burns and serious eye damage.

H411 Very toxic to aquatic life with long lasting effects.

## Safety recommendations:

P260 Avoid inhaling vapours and aerosols.

P280 Use protection gloves/protection clothing/protection goggles/protection mask.

P273 Avoid release to the environment.

P301 + P330 + P331 + P310 IF SWALLOWED: rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

P 303 + P361 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Immediately call a POISON CENTER or doctor/physician.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. P501 Dispose of contents/container in accordance with the legislation.

2.3. Other hazards: Based on available data, the product does not contain more than 1% substances with PBT or vPvB properties.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1.Substances: N/A

3.2. Mixtures:

Identification name	Concentration in %	Classification according to Regulation (EC) No. 1272/2008 (CLP)
CAS No./EU No.		
Alkyl (C12-16)	15	Acute Tox. 4, H302
dimethylbenzylammonium chloride		Skin Corr, cat. 1B, H314
(ADBAC/BKC (C 12-C 16 ))		Eye Dam. 1, H318
CAS-No. 68424-85-1		Aquatic Acute 1, H400
EU No. 270-325-2		Aquatic Chronic 1, H410

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<b><i>Didecyldimethylammonium chloride (DDAC)</i></b> CAS-No. 7173-51-5 EU No. 230-525-2	28	Acute Tox. 3, H301 Skin Corr, cat. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
<b><i>Propan-2-ol*</i></b> CAS-No. 67-63-0 EU No. 200-661-7	18	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336

\* Substance with occupational limits in air

For the full text of H-phrases: see section 16 of this Safety Data Sheet .

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures:

IF INHALED: Immediately move the victim from the site of exposure to a well-ventilated area. Immediately call a POISON CENTER or doctor/physician.

IN CASE OF DIRECT EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IN CASE OF DIRECT SKIN (or hair) CONTACT: immediately remove all contaminated clothing. Rinse skin with water [or shower]. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

*No specific antidote.. In case of intoxication, treat symptomatically.*

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

For symptoms and effects caused by the substances contained in the product, see section 11.

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

No data available.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing agents

SUITABLE EXTINGUISHING AGENTS:

The firefighting equipment must be of conventional type: CO<sub>2</sub>, powder, dispersed water spray, alcohol resistant foam, and depending on the burning materials.

UNSUITABLE EXTINGUISHING AGENTS

No data available.

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

HAZARDS FROM EXPOSURE TO FIRE

Do not inhale the decomposition products (carbon and nitrogen oxides, chlorine).



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## **5.3. Advice for fire-fighters**

### GENERAL INFORMATION

Cool the containers with water spray to prevent decomposition of the product and formation of potentially hazardous substances. Always wear full firefighting equipment.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Normal fire fighting clothing e.g. protective clothing for firefighters (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open-circuit compressed air breathing apparatus (BS EN 137).

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Eliminate the sources of ignition (cigarettes, flames, sparks, etc.) from the area of the leakage. Remove from the area the persons who are not adequately equipped. Wear protective gloves, clothing and eye/face protection.

### **6.2. Environmental protection measures**

Avoid release to the environment.

### **6.3. Methods and materials for containment and cleaning up**

Use inert absorbent materials to absorb the spilled product. The contaminated material must be disposed of in accordance with the provisions set out in Section 13.

### **6.4. Reference to other sections**

Information on the personal protection equipment and the methods of disposal is given in Sections 8 and 13.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Do not eat, drink or smoke during work. Avoid contact with eyes. Use only as intended. Keep away from food, drinks and fodder. Avoid excess use.

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

Store in places with adequate ventilation, away from direct sunlight, at temperatures below 35°C, away from sources of ignition.

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

Biocide – disinfectant.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters /Legal information:**

EN

**Bulgaria**

Ordinance 13/30.12.2003 on the protection of the workers against risks related to exposure to chemical agents at work – (prom. StG 8/30.01.2004.)

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## Isopropanol / propan-2-ol

Type	Country	8h		15min		skin
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
LV	EN	980	1000	1225		

LV – Limit values of chemical agents in the air in the working environment (Ordinance 13)

### 8.2. Exposure controls

The use of appropriate technical means must always be given priority over personal protective equipment. Make sure that the workplace is well ventilated by means of effective exhausters.

Provide emergency face and eye shower.

#### HAND PROTECTION

Wear suitable gloves. The glove material must be impermeable and resistant to the product. For prolonged contact are suitable gloves from of butyl rubber with recommended thickness of the material:  $\geq 0,7$  mm mm and the permeation value: level  $\geq 480$  min.

#### SKIN PROTECTION

Wear work clothing with long sleeves and impermeable apron. Wash the body with soap and water after removing the work clothing. Wash the work clothing before re-use.

#### EYE PROTECTION

Use safety goggles with side protection (or closed type) or face shield.

#### RESPIRATORY PROTECTION

Observe the occupational limits in air. Wear suitable breathing apparatuses, if necessary.

#### ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from production processes, including generated by ventilation, should be checked to ensure they comply with the ecological standards.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Physical state:	liquid
Colour:	colourless
Odour:	specific
Odour threshold	N/A
pH:	7.0 – 8.0
Melting point/freezing point:	N/A
Boiling point:	N/A
Boiling interval:	N/A
Flash point:	N/A
Evaporation rate:	N/A
Self-ignition (solid, gas):	N/A
Upper ignition limit:	N/A
Lower ignition limit:	N/A
Upper explosion limit:	N/A

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Lower explosion limit:	N/A
Vapour pressure:	N/A
Vapour density:	N/A
Density:	0.92 – 0.96 g/cm <sup>3</sup> , 20°C
Solubility:	N/A
Partition coefficient n-octanol/water:	N/A
Self-ignition temperature:	N/A
Decomposition temperature:	N/A
Viscosity:	N/A
Oxidizing properties:	none
Explosive properties:	none

## 9.2. Other information: -

### SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity:** No risk of reaction with other substances under normal conditions of use.

**10.2. Chemical stability:**

The product is stable at normal conditions of handling and storage.

**10.3. Possibility of hazardous reactions:**

No predictable dangerous reactions under normal conditions of handling and storage.

**10.4. Conditions to avoid**

Avoid overheating, direct exposure to light, heat sources and open flame.

**10.5. Incompatible materials:**

No data available.

**10.6. Hazardous decomposition products:**

No data available.

### SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**

In the absence of experimental data on the product, the health hazards have been assessed on the basis of the properties of the substances it contains, using the classification criteria set out in the applicable legislation. Therefore, the concentration of individual hazardous substances is taken into account in the assessment of the toxicological effects of the exposure to the product.

**Acute oral, dermal and respiratory toxicity:**

Oral LD 50 of the mixture (derived) = 732 mg/kg.

The biocide is classified: Acute toxicity (oral), hazard category 4, H302.

**Serious eye damage/eye irritation:**

The biocide is classified: Serious eye damage, category 1, H318.

**Skin corrosion/irritation:**

The biocide is classified: Skin corrosion/irritation, hazard category 1B, H314

**Respiratory/skin sensitization:** not skin sensitizing;

**STOT SE, STOT RE:** not classified in these hazard classes;

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**Germ cell mutagenicity:** not classified;

**Carcinogenicity:** no data on carcinogenicity, not classified;

**Reproductive toxicity:** not classified.

**Acute effects of overexposure and accidental ingestion:**

Ingestion can cause stomach pain, burning, nausea and vomiting.

## SECTION 12: ECOLOGICAL INFORMATION

*The biocide has not been tested for environmental effects. The classification criteria of Regulation (EC) No 1272/2008 are used. Based on the alkyl (C12-16) dimethylbenzylammonium chloride content (ADBAC/BKC (C 12-C 16 )) and Didecyldimethylammonium chloride, it is classified as: Acute aquatic hazard, category 1, H400; Chronic aquatic hazard, category 2, H411.*

### 12.1. Toxicity:

**Alkyl (C12-16) dimethylbenzylammonium chloride (ADBAC/BKC (C 12-C 16 ))**

Toxicity to fish

LC50 /96h / fish = 0.515 mg/l;

Toxicity to daphnia and other aquatic invertebrates:

EC50 = 0.016 mg/l;

Toxicity to algae:

CI 50 = 0.03 mg/l;

NOEC = 0.009 mg/l;

**Didecyldimethylammonium chloride**

Toxicity to daphnia and other aquatic invertebrates:

EC50 = 0.011 - 0.099 mg/l; NOEC = 0.009 mg/l.

### 12.2. Persistence and degradability:

Alkyl (C12-16) dimethylbenzylammonium chloride and Didecyldimethylammonium chloride

Biodegradability - readily biodegradable.

### 12.3. Bioaccumulative potential:

Bioaccumulation is not expected

### 12.4. Mobility in soil:

No data available.

### 12.5. Results of PBT and vPvB assessment:

Based on available data, the biocide does not contain substances with PBT or vPvB properties.

### 12.6. Other adverse effects:

No data available.





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## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods:

The whole contents of the package must be used as intended.

Any residues of the products must be disposed of in accordance with the applicable regulations. The transport of waste may be subject to restrictions according to ADR.

Contaminated packages must be disposed of or decontaminated in accordance with national waste management regulations.

### Waste classification:

*(Ordinance 2/23.07.2014 on the classification of waste (prom. StG 66/8.08.2014))*

07 04 Wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides

07 04 04\* other organic solvents, washing liquids and mother liquors

### 15 01 Packages

15 01 10\* packages containing residues of dangerous substances or contaminations from dangerous substances

The biocide waste, such as residual quantities and packaging must be temporarily collected in special tightly closed and labeled containers and handed over to the authorized persons in accordance with Art. 67 of the Waste Management Act (prom. StG 53/13.07.2012)

## SECTION 14: TRANSPORT INFORMATION

14.1. UN Number - 1903

### 14.2. UN proper shipping name:

ADR / RID IMDG IATA - Disinfectant liquid, corrosive

### 14.3. Transport hazard class(es)

ADR / RID, IMDG, IATA: 8

### 14.4. Packing group

ADR, IMDG, IATA II

### 14.5. Environmental hazards

Aquatic hazard

### 14.6. Special precautions for user

EMS number (marine emergency measures): -

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The information is irrelevant.

## SECTION 15: LEGAL INFORMATION

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

None.

### 15.2. Chemical safety assessment



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The European Commission is not responsible for any use that may be made of the information contained therein.

## **15.3. Information on the legislation, taken into account in the drafting of the safety data sheet:**

### **European legislation:**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Regulation (EU) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Council Directive 76/769/EEC on the restrictions on the marketing and use of certain dangerous substances and preparations.

Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Council Directive 89/656/EEC on the minimum health and safety requirements for the use by workers of personal protective equipment at the workplace.

Directive 2008/98/EC of the European Parliament and of the Council on waste.

Directive 2000/60/EC of the European Parliament and of the Council establishing a framework for Community action in the field of water policy.

Council Directive 91/689/EEC on hazardous waste.

European Parliament and Council Directive 94/62/EC on packaging and packaging waste.

Council Directive 1999/31/EC on the landfill of waste.

### **National legislation:**

Protection against the Harmful Impact of Chemical Substances and Mixtures Act (prom. StG 10/2000);

Environmental Protection Act (prom. StG 91/25.09.2002);

Occupational Health and Safety Act (prom. StG 124/23.12.1997);

Waste Management Act (prom. StG 53/13.07.2012);

Ordinance 2/23.07.2014 on the classification of waste (prom. StG 66/08.08.2014);

Ordinance 13/30.12.2003 on the protection of the workers against risks related to exposure to chemical agents at work - (prom. StG 8/30.01.2004).

## **SECTION 16: OTHER INFORMATION**

### **Full text of hazard classes and categories and H-phrases**

Text of hazard warnings (H) mentioned in Section 2 and Section 3 of this Safety Data Sheet

Flam. Liq. 2	Flammable liquid, category 2
Acute Tox.4	Acute toxicity, category 4
Acute Tox.3	Acute toxicity, category 3
Eye Dam.1	Serious eye damage/eye irritation, category 1
Eye Irrit.2	Serious eye damage/eye irritation, category 2
Skin Corr. 1B	Skin corrosion/irritation, category 1B
STOT SE 3	Target Organ Systemic Toxicant - Single exposure, hazard category 3
Aquatic Acute 1	Acute aquatic hazard, category 1
Aquatic Chronic 1	Chronic aquatic hazard, category 1



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- H225 Highly flammable liquid and vapour.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and serious eye damage.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation;
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Very toxic to aquatic life with long lasting effects.

**Notes to user:**

The use of this product is not subject to our direct control, therefore, consumers are responsible for the compliance of the use with the applicable health and safety laws and regulations. The manufacturer is relieved of all liability for improper use. Ensure that the personnel are properly trained in the handling of chemical products.

**Altered data compared to the previous version: -**

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*I, the undersigned Djeylian Ahmed Mancheva certify herewith the fidelity of the translation performed from Bulgarian into English of the attached document: (Safety Data Sheet of product "APOLO Sept Ultra"). The translation consists of 10 pages.*

*Sworn translator: \_\_\_\_\_  
Djeylian Ahmed Mancheva*