Safety Data Sheet
SEPTOQUAT 30

Section 1 - IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product identifier

- **Product Name :** **Septoquat 30**

1.2 Relevant identified uses of the substances or mixture and used advised against

- **Recommended use :** Disinfection products.
- **Recommended restrictions :** For industrial use only

1.3 Details of supplier of the safety data sheet :

- **Manufacturer Details:**

ZOHAR DALIA C.A.A. Ltd.,
Kibbutz Dalia 1923900, Israel
Tel. 972-4-9897234
Fax 972-4-9897200

1.4 Emergency telephone number :

- **Emergency Telephone & Contact:** Tel: +972-4-9897515

Section 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture according to Regulation (EC) No 1272/2008 (CLP)

Physical hazard categories and codes:	Flammable Liquid	category 2
Human health hazard categories and codes:	Skin Irritation	category 2
	Eye Irritation	category 2
Environmental hazard categories and codes:	Not classified as environmentally hazardous	

2.2 Labeling according to Regulation (EC) No 1272/2008 (CLP)

- **Hazard Pictogram :**

SIGNAL WORD: Warning

GHS07 Exclamation mark

GHS02 Flame

- **Hazard Statements :**

H225: Flammable liquid and vapour.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

- **Precautionary Statements :**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312: IF SWALLOWED: Call a POISON Center or doctor/physician if you feel unwell.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313: If eye irritation persists: Get medical advice/ attention.
P391: Collect spillage.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of contents/container according to local and national law regulations.

2.3. Other hazards

Not known

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Constituent	CAS No.	EC No.	Concentration range	Classification according to Regulation (EC) No 1272/2008 (CLP)	Remarks
Mixed dialkyl (octyl-decyl) dimethyl ammonium bromide	-	-	10-30%	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (inhalation)	None
Didecyl Dimethyl Ammonium Bromide	2390-68-3	219-234-1	10-30%	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (inhalation)	None
propan-2-ol	67-63-0	200-661-7	10 - 30%	Flam. Liquid 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (inhalation)	None
Alcohol C10- C18 ethoxylate			1-10%	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 Aquatic Chronic 3, H412	None

Section 4 - FIRST AID MEASURES

4.1 Description of First Aid measures:

- **General measures :** Remove contaminated soaked clothing immediately and dispose of safely. If you feel unwell, seek medical advice immediately. Show this safety data sheet to the doctor in attendance.
- **Eye contact :** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Protect unharmed eye. Remove contact lenses. Keep eye wide open while rinsing.
- **Skin Contact :** Take off contaminated clothing and shoes immediately. Rinse immediately with plenty of water. Consult a physician if symptoms persists.
- **Inhalation :** If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.
- **Ingestion :** Do not induce vomiting. Call a physician immediately.

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

- Harmful if swallowed or inhaled. Causes respiratory irritation. Irritates the skin and the eyes.
- In case of inadequate first-aid measures there is a possibility of persistent effects on the eye.

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

- Advice to physician: symptomatic treatment is advised. Eye rinsing device shall be made available at any point of handling of the product.

Section 5 - FIRE-FIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinguishing media: Water spray, Dry powder, Foam, Carbon dioxide (CO_2)
Unsuitable extinguishing media: Water with full jet.

5.2. Special hazards arising from the substance or mixture: **none known**

5.3. Advice for fire-fighters

- Wear self - contained breathing apparatus for firefighting if necessary.
- Further information Standard procedure for chemical fires Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

Section 6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- **Personal Protective Equipment :** Eliminate all sources of ignition. Wear appropriate protective clothing. Avoid inhalation. Avoid contact with the skin, eyes and clothing. Immediately evacuate all personnel; isolate hazard area and deny entry. Stop leak if this can be achieved without risk. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
- **Eye Protection :** Full face mask with filter. (as mention in section 8.2)
- **Skin Protection :** Wear protective suit avoid contact with skin. (as mention in section 8.2)
- **Respiratory Protection :** Wear personal protective equipment. (as mention in section 8.2)
- **Work Practices :** Smoking, eating and drinking should be prohibited in the application area.

6.2. Environmental precautions:

- Prevent further leakage.
- Avoid direct discharge of concentrated product and contaminated water to sewage or aquatic environment.

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6.3. Methods and material for containment and cleaning:

- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Small spills**: Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Use appropriate Personal Protective Equipment (PPE)
- **Large spills:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in Container for disposal according to local regulations. **Do not flush with water.**

Section 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

- Keep away from sources of heat or sources of ignition.
- Protect material from direct sunlight.
- Take precautionary measures against static discharges
- Use non-sparking tools and explosion-proof equipment
- When using, do not eat, drink or smoke.
- Wash hands thoroughly after handling.

7.2 Conditions for safe storage:

- Store in original tightly closed container.
- Store in a cool, dry ,well ventilated place out of direct sunlight.

7.3 Specific end use(s):

- As prescribed in section 1.2

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

isopropanol:

OSHA - permissible Exposure Limit: Table Z-1 8-hr Time Weighted Avg: 400 ppm (980 mg/cu m).

Vacated 1989 OSHA PEL TWA 400 ppm (980 mg/cu m); STEL 500 ppm (1225 mg/cu m) is still enforced in some states.

Threshold Limit Values - 8 hr Time Weighted Avg (TWA): 200 ppm; 15 min Short Term Exposure Limit (STEL): 400 ppm

8.2 Exposure Control:

• **Engineering measures:**	Ensure adequate ventilation, especially in confined areas.
• **Respiratory Protection:**	Not necessary if room is well-ventilated. If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.
• **Hand Protection:**	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. PVC gloves
• **Eye protection:**	Wear chemical goggles, Face-shield.
• **Skin protection:**	Wear suitable protective clothing.
• **Hygiene measures:**	The usual precautionary measures are to be adhered to when handling chemicals. Immediately remove all soiled and contaminated clothing. Avoid contact with the eyes and skin. Safety shower at proximity. Eye wash station at proximity.

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Section 9 – PHYSICAL & CHEMICAL PROPERTIES:

9.1 Information on basic physical and chemical properties:

• **Appearance:**	Colorless liquid
• **Odour:**	Characteristic.
• **Odour threshold:**	N.A.
• **pH 1%:**	6.50 – 7.50
• **Melting point/Freezing point:**	N.A.
• **Initial boiling point and boiling range:**	N.A.
• **Flash point:**	26°C
• **Evaporation rate:**	N.A.
• **Flammability(solid/gas):**	N.A.
• **Upper/lower flammability or explosive limits:**	N.A.
• **Vapour pressure:**	N.A.
• **Vapour density:**	N.A.
• **Relative density:**	0.99 (gr/ml 20°C)
• **Solubility (water):**	Soluble.
• **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: Not available

Section 10 - STABILITY AND REACTIVITY

• Reactivity :	No hazardous reactions if stored and handled as prescribed/indicated.
• Chemical stability :	The product is stable if stored and handled as prescribed/indicated.
• Possibility of hazardous reactions :	Reacts violently with water. Vapours may form explosive mixture with air.
• Conditions to avoid :	Heat, sparks, flames.
• Hazardous decomposition products :	No decomposition if used according to specifications. Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion
• Incompatible materials :	Strong oxidizing agents, acids, Bases

Section 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

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- No data available

11.2 Irritation Corrosion:

- **Eye**: The composition cause eye irritation
- **Skin :** The composition cause Skin irritation

11.3 Sensitization

- The product is not expected to be sensitizing to skin.

11.4 CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- **Carcinogenicity :** Not classified as carcinogen.
- **Mutagenic effects :** Not classified as a mutagen.
- **Reprotoxic effects :** Not found to be reprotoxic.

11.5 Other toxic effects on humans:

- **Inhalation :** No data available
- **Dermal :** No data available
- **Eyes :** No data available
- **Ingestion :** No data available
- **Chronic toxicity :** No data available

11.6 NIOSH Immediately Dangerous To Life or Health Concentration (IDLH):

isopropanol NIOSH-10 hr TWA: 400 ppm (980 mg/cu m); 15 Minute Short-Term Exposure Limit: 500 ppm (1225 mg/cu m). IDLH: 2000 ppm (Based on 10% of the lower explosive limit for safety considerations even though the relevant toxicological data indicated that irreversible health effects or impairment of escape existed only at higher concentrations.)

11.7 Specific target organ toxicity:

- **Single exposure :** STOT SE 3: The product may cause specific target organ toxicity – single to:
  - Route of exposure: inhalation: may cause respiratory irritation
  - Route of exposure: inhalation May cause drowsiness or dizziness
- **Repeated exposure :** No experimental or epidemiological sufficient evidence for specific target organ toxicity

Section 12 - ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

- No data available

12.2 Persistence and degradability:

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- The substances within product are not PBT / vPvB. Readily Biodegradable.

12.3 Bioaccumulative potential:

- The substance within product is not bioaccumulative. Thus Product i not B/vB.

12.4 Mobility in soil:

- Data not available.

12.5 Results of PBT and vPvB assessment:

- The product is not PBT / vPvB.

12.6 Other adverse effects:

- None

Section 13 - DISPOSAL CONSIDERATIONS:

- **Disposal of product :** Recover if possible.
  Do not allow product to reach sewage system.
  Disposal must be made according to local authority regulations.
- **Disposal of contaminated packaging:** Disposal must be made according to official regulations.
  Packaging may be reused or recycled after cleaning.

Section 14 - TRANSPORT INFORMATION:

Classified as dangerous in the meaning of transport regulations due to its composition.

Land transport (ADR/RID)

- **UN Number** : 1993
- **UN proper shipping name** : FLAMMABLE LIQUID, N.O.S. (CONTAINS ISOPROPANOL)
- **Transport hazard class** : 3
- **Packing group** : III
- **Environmental hazards** : NO

Marine transport (IMDG)

- ***UN number*** *:* 1993
- **Proper shipping name and description :** FLAMMABLE LIQUID, N.O.S. (CONTAINS ISOPROPANOL)
- **Transport hazard class** : 3
- **Packing group** : III
- **EmS number** : F-E,S-D
  :
- **Marine pollutant** : NO

Air transport ICAO/IATA

- **UN number** : 1993

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- **Proper shipping name and description :** FLAMMABLE LIQUID, N.O.S. (CONTAINS ISOPROPANOL)
- **Class :** 3
- **Packaging group :** III

Section 15 - REGULATORY INFORMATION

15.1 Other regulatory information:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Control of Substances Hazardous to Health Regulations (COSHH) 2002 SI 2002/2677 and COSHH Essentials: Easy steps to control chemicals - Control of Substances Hazardous to Health Regulations HSG193.

Inventory Status:

Listed in: US (TSCA), Europe (EINECS), New Zealand (NZIoC), Philippines (PICCS), Canada (DSL), Japan(ENCS), Australia (AICS).

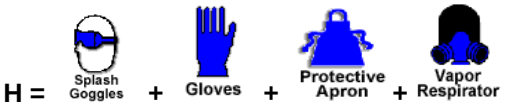
- **HMIS (Hazardous Materials Identification system) classification:**

Health	**2**
Fire	**3**
Physical Hazard	**1**
Personal Protection	**H**

2 = Temporary or minor injury may occur.

3 = Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 °F and boiling points above 100 °F, as well as liquids with flash points between 73 °F and 100 °F. (Classes IB & IC).

1 = Materials that are normally stable but can become unstable at high temperature and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.



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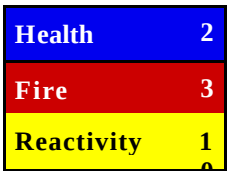
- **NFPA :(National Fire Protection Association)**



2 = Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

3 = Must be moderately heated or exposed to relatively high temperature before ignition can occur

1 = Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.

15.2 Chemical Safety Assessment:

- A chemical safety assessment has been carried out for the substance or the mixture by the supplier (LR)- No

Section 16 – OTHER INFORMATION

16.1 Technical Advice:

- Use data given in this Safety Data Sheet and make an inventory list of all chemicals used in the factory
- Create a Register for Workplace Chemicals;
- Set priorities concerning the safety in the organization
- Create emergency plans for the assessed hazards;
- Organize occupational health care and regular surveys as necessary;
- Organize contacts with authorities/laboratories to create a monitoring system for chemical hazards, and to reliably measure and/or estimate occupational exposures to chemicals when needed;
- Start collecting case studies of accidents and sickness records in the enterprise to create a basis for priority measures in the control of hazards;
- Involve workers in safety organizations, such as the system of Safety Representatives and Committees.
- Do regular inspection using checklists made for the particular chemicals and chemical processes in use;
- Mark and label all chemicals;
- Keep at hand an inventory list of all chemicals handled in the place of work together with a collection of Chemical Safety Data Sheets for these chemicals;
- Train workers to read and understand the Chemical Safety Information, including the health hazards and routes of exposure; train them to handle dangerous chemicals and processes with respect;
- Plan, develop and choose the safe working procedures;
- Reduce the number of people coming into contact with dangerous chemicals;
- Reduce the length of time and/or frequency of exposure of workers to dangerous chemicals;
- Train workers to know and understand the emergency procedures;
- Equip and train workers to use personal protective equipment properly after everything possible has been done to eliminate hazards by means of other methods;

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