



## SAFETY DATA SHEET

### Glutaquat

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

##### 1.1. Product identifier

Product name                      Glutaquat  
 Product number                    656040IP

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

Identified uses                      General Glutaraldehyde and Quaternary Ammonium Disinfectant for animal hygiene.

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

###### Supplier

Reza Chemical Industries  
 Supplier  
 P.O. Box 1555  
 Alireza Tower  
 Madina Road  
 Jeddah 21425  
 Saudi Arabia  
 Tel: Head Office +966 12 657 2877  
 Tel: Factory +966 12 637 3910  
 Fax: Head Office +966 12 657 2832  
 E-Mail: quality.rci@rezagroup.com  
 Fax: Factory +966 12 637 3910 Ext. 2525

##### 1.4. Emergency telephone number

Emergency telephone              Technical Advice +966 12 637 3910 Ext 2451/2452 (Office hours only: 7.30am to 4.30pm Sun to Thurs)

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

Physical hazards                    Not Classified

Health hazards                      Acute Tox. 4 - H302 Acute Tox. 2 - H330 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Resp. Sens. 1 - H334 Skin Sens. 1 - H317

Environmental hazards            Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412

##### 2.2. Label elements

###### Pictogram



Signal word

Danger

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### Hazard statements

H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H330 Fatal if inhaled.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H400 Very toxic to aquatic life.  
 H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P102 Keep out of reach of children.  
 P261 Avoid breathing vapour/ spray.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P270 Do not eat, drink or smoke when using this product.  
 P284 [In case of inadequate ventilation] wear respiratory protection.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 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.  
 P315 Get immediate medical advice/ attention.  
 P501 Dispose of contents/ container in accordance with local regulations.

### Contains

GLUTARAL

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>GLUTARAL</b>	<b>10-15%</b>
CAS number: 111-30-8	EC number: 203-856-5
M factor (Acute) = 1	
Spec Conc Limits :- Skin Corr. 1B (H314) >=10 %, Skin Irrit. 2 (H315) >=0.5 % <10%, Eye Dam. 1 (H318) >=2 % < 10%, Eye Irrit. 2 (H319) >=0.5 % <2%, STOT SE 3 (H335) >=0.5%, Skin Sens. 1 (H317) >=0.5%	
<b>Classification</b>	
Acute Tox. 3 - H301	
Acute Tox. 2 - H330	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Resp. Sens. 1 - H334	
Skin Sens. 1 - H317	
STOT SE 3 - H335	
Aquatic Acute 1 - H400	
Aquatic Chronic 2 - H411	

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<b>C12-15 ALCOHOL ETHOXYLATE (7EO)</b> <span style="float: right;"><b>5-10%</b></span> CAS number: 68131-39-5 M factor (Acute) = 1
<b>Classification</b> Acute Tox. 4 - H302 Eye Dam. 1 - H318 Aquatic Acute 1 - H400
<b>DIDECYL DIMETHYL AMMONIUM CHLORIDE</b> <span style="float: right;"><b>3-5%</b></span> CAS number: 7173-51-5                      EC number: 230-525-2 M factor (Acute) = 10
<b>Classification</b> Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411
<b>PROPAN-2-OL</b> <span style="float: right;"><b>1-3%</b></span> CAS number: 67-63-0                      EC number: 200-661-7                      REACH registration number: 01-2119457558-25-xxxx
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336
<b>PHOSPHORIC ACID</b> <span style="float: right;"><b>0.1-1%</b></span> CAS number: 7664-38-2                      EC number: 231-633-2 Spec Conc Limits :- Skin Corr. 1B (H314) ≥ 25%, Skin Irrit. 2 (H315) >10% <25%, Eye Irrit. 2 (H319) >10%
<b>Classification</b> Skin Corr. 1B - H314 Eye Dam. 1 - H318
<b>METHANOL</b> <span style="float: right;"><b>0.1-1%</b></span> CAS number: 67-56-1                      EC number: 200-659-6 Spec Conc Limits :- STOT SE 1 (H370) ≥10%, STOT SE 2 (H371) >3% <10%
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370

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The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**Composition comments** Please note that the % Range values quoted above are given for guidance in assessment of hazard & should not be interpreted as specifications.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention immediately.
<b>Skin contact</b>	Wash with plenty of water. Get medical attention promptly if symptoms occur after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Get medical attention immediately. Continue to rinse.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Irritation of nose, throat and airway. Coughing, chest tightness, feeling of chest pressure.
<b>Ingestion</b>	May cause stomach pain or vomiting. May cause chemical burns in mouth and throat.
<b>Skin contact</b>	Burning pain and severe corrosive skin damage. May cause serious chemical burns to the skin.
<b>Eye contact</b>	Severe irritation, burning and tearing. Prolonged contact causes serious eye and tissue damage.

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

**Notes for the doctor** Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

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

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

**Specific hazards** Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

#### 5.3. Advice for firefighters

**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

**Personal precautions** Wear protective clothing, gloves, eye and face protection. Wear respiratory protection. For personal protection, see Section 8.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Small Spillages: Flush away spillage with plenty of water. Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Wear Respiratory protection compliant with EN 141 (A2 B2 E2 K2 Hg-p3). Wear protective clothing, gloves, eye and face protection.

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

**Storage precautions** Keep only in the original container in a cool, well-ventilated place. Store away from the following materials: Oxidising materials. (eg Hypochlorite / Bleach)

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

**Usage description** See Product Information Sheet & Label for detailed use of this product.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### GLUTARAL

Long-term exposure limit (8-hour TWA): WEL 0.05 ppm 0.2 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 0.05 ppm 0.2 mg/m<sup>3</sup>

Sen

##### PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup>

##### PHOSPHORIC ACID

Long-term exposure limit (8-hour TWA): WEL 1 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

##### METHANOL

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit

Sen = Capable of causing occupational asthma.

Sk = Can be absorbed through skin.

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

This product must not be handled in a confined space without adequate ventilation.

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<b>Eye/face protection</b>	The following protection should be worn: Chemical splash goggles or face shield.
<b>Hand protection</b>	Wear protective gloves. Polyvinyl chloride (PVC).
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of skin contact.
<b>Respiratory protection</b>	Wear Respiratory protection compliant with EN 141 (A2 B2 E2 K2 Hg-p3).

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Clear. Orange. Red.
<b>Odour</b>	Characteristic. Pungent. Glutaraldehyde.
<b>pH</b>	pH (concentrated solution): 1.70
<b>Melting point</b>	-2°C
<b>Initial boiling point and range</b>	101°C @ 760 mm Hg
<b>Flash point</b>	Boils without flashing.
<b>Relative density</b>	1.035 @ 20°C
<b>Solubility(ies)</b>	Soluble in water.

#### 9.2. Other information

<b>Other information</b>	None.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	Reacts with alkalis and generates heat.
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#### 10.2. Chemical stability

<b>Stability</b>	No particular stability concerns.
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#### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	See sections 10.1, 10.4 & 10.5
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#### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat. >30°C
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#### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong oxidising agents.
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#### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	When heated, vapours/gases hazardous to health may be formed.
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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

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**Toxicological effects** We have not carried out any animal testing for this product. Any ATE figures quoted below are from Toxicity Classifications that have been carried out using ATE (Acute Toxicity Estimate) Calculation Method using LD50 or ATE figures provided by the Raw Material Manufacturer.

### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Classification criteria has been met – Product is classified as Harmful if Swallowed.

**ATE oral (mg/kg)** 610.65

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE dermal (mg/kg)** 160,282.34

### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Fatal if inhaled.

**ATE inhalation (gases ppm)** 784.99

**ATE inhalation (vapours mg/l)** 3.92

**ATE inhalation (dusts/mists mg/l)** 0.39

## SECTION 12: Ecological Information

**Ecotoxicity** The product contains a substance which is very toxic to aquatic organisms. Harmful to aquatic life with long lasting effects. The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

### 12.1. Toxicity

**Toxicity** We have not carried out any Aquatic testing, therefore we have no Aquatic Toxicity Data specifically for this product. The Aquatic Toxicity Data, where provided by the raw material manufacturer for ingredients with aquatic toxicity, can be made available on request. Very toxic to aquatic organisms.

### 12.2. Persistence and degradability

**Persistence and degradability** The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

### 12.4. Mobility in soil

**Mobility** Not known.

### 12.5. Results of PBT and vPvB assessment

**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** Not known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

## Glutaquat

**Disposal methods** Discharge used solutions to drain. Small amounts (less than 5 Litres) of unwanted product may be flushed with water to sewer. Larger volumes must be sent for disposal as special waste. Rinse out empty container with water and consign to normal waste.

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID)	3265
UN No. (IMDG)	3265
UN No. (ICAO)	3265

#### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (glutaraldehyde)

**Proper shipping name (IMDG)** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (glutaraldehyde)

**Proper shipping name (ICAO)** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (glutaraldehyde)

#### 14.3. Transport hazard class(es)

ADR/RID class	Class 8: Corrosive substances.
ADR/RID label	8
IMDG class	Class 8: Corrosive substances.
ICAO class/division	Class 8: Corrosive substances.

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

EmS	F-A, S-B
Tunnel restriction code	(E)

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

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not relevant. for a packaged product.



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### SECTION 15: Regulatory information

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

##### **EU legislation**

Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 2015/830 (which amends Regulation (EC) No 453/2010 & 1907/2006).  
The product is as classified under GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.  
Ingredients are listed with classification under GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out as not applicable as this product is a mixture.

### SECTION 16: Other information

#### **Abbreviations and acronyms used in the safety data sheet**

PBT: Persistent, Bioaccumulative and Toxic substance.  
vPvB: Very Persistent and Very Bioaccumulative.  
ATE: Acute Toxicity Estimate.  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
IMDG: International Maritime Dangerous Goods.  
ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.  
GHS: Globally Harmonized System.  
Spec Conc Limits = Specific Concentration Limits.

#### **Classification abbreviations and acronyms**

Acute Tox. = Acute toxicity  
Aquatic Acute = Hazardous to the aquatic environment (acute)  
Aquatic Chronic = Hazardous to the aquatic environment (chronic)  
Eye Dam. = Serious eye damage  
Eye Irrit. = Eye irritation  
Eye Irrit. = Eye irritation  
Resp. Sens. = Respiratory sensitisation  
Skin Corr. = Skin corrosion  
Skin Irrit. = Skin irritation  
Skin Sens. = Skin sensitisation  
STOT SE = Specific target organ toxicity-single exposure

#### **Key literature references and sources for data**

Material Safety Data Sheet, Miscellaneous manufacturers. CLP Class - Table 3.1 List of harmonised classification and labeling of hazardous substances. ECHA - C&L Inventory database.

#### **Classification procedures according to Regulation (EC) 1272/2008**

Calculation Method.

#### **Revision comments**

First issue. Classification from GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

#### **Revision date**

01/05/2019

#### **Revision**

Issue 1

#### **SDS status**

The Hazard Statements listed below in this Section No 16 relate to the Raw Materials (Ingredients) in the Product (as listed in Section 3) and NOT the product itself. For the Hazard Statements relating to this Product see Section 2.

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### Hazard statements in full

H225 Highly flammable liquid and vapour.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
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.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.  
H331 Toxic if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H370 Causes damage to organs .  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.