

# SAFETY DATA SHEET

## QUAT 256

### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or preparation

**Product name** : QUAT 256

**Product No.** : 00256SC

**Use of the substance/preparation** : Concentrated quaternary disinfectant/cleaner

#### Company/undertaking identification

**Manufacturer** : Essential Industries, Inc.  
P.O. Box 12  
28391 Essential Rd.  
Merton, WI 53056-0012 USA

**Supplier** : Essential Industries, Inc.  
P.O. Box 12  
28391 Essential Rd.  
Merton, WI 53056-0012 USA

**Emergency telephone number** : 001-262-821-7814

### 2. Composition/information on ingredients

**Substance/Preparation** : Preparation

| Ingredient Name  | CAS number | %    | EC Number | Classification |
|--|------------|------|-----------|----------------|
| poly(oxy-1,2-ethanediyl),<br>.alpha.-(nonylphenyl)-.omega.-hydroxy-<br>See Section 16 for the full text of the R Phrases declared<br>above | 9016-45-9  | 5-10 | 500-024-6 | Xn; R22        |

\* Occupational Exposure Limit(s), if available, are listed in section 8

### 3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : C; R34, R53

See Section 11 for more detailed information on health effects and symptoms.

### 4. First aid measures

#### First aid measures

**Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

**Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

**Skin contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Eye contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Specific treatments** : None identified.

See Section 11 for more detailed information on health effects and symptoms.

## 5. Fire-fighting measures

- Extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical, or CO<sub>2</sub>.
- Special exposure hazards** : No specific hazard.  
Not available.
- Hazardous thermal decomposition products** : None identified.
- Special protective equipment for fire-fighters** : Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
- Remark** : No additional remark.

## 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).
- Environmental Precautions and Clean-up Methods** : Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.  
If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

**Note:** See section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Packaging materials**
- Recommended** : Use original container.
- Specific uses** : Industrial applications

## 8. Exposure controls/personal protection

- Exposure limit values** : Not available.
- Recommended monitoring procedures** : Good general ventilation should be sufficient to control airborne levels.
- Exposure controls**
- Occupational exposure controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
- Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.
- Hand protection** : Use latex gloves.
- Eye protection** : Safety glasses.
- Skin protection** : Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits).

## 9. Physical and chemical properties

### General information

#### Appearance

**Physical state** : Liquid.

**Color** : Blue.

**Odor** : Bland.

### Important health, safety and environmental information

**pH** : 9.4 - 10.4

**Boiling Point** : The lowest known value is 100°C (212°F) (water).

## QUAT 256

|   |   |
|---|---|
| <b>Melting Point</b>                        | : May start to solidify at 0°C (32°F) based on data for: water.   |
| <b>Flash point</b>                          | : Not applicable.   |
| <b>Flammability (solid, gas)</b>            | : Not applicable.   |
| <b>Explosive properties</b>                 | : Risks of explosion of the product in presence of mechanical impact: Not available.<br>Risks of explosion of the product in presence of static discharge: Not available. |
| <b>Oxidizing Properties</b>                 | : Not available.  |
| <b>Relative density</b>                     | : The only known value is 1 g/cm <sup>3</sup> (water).  |
| <b>Solubility</b>                           | : Easily soluble in cold water, hot water, methanol, acetone.   |
| <b>Octanol/water partition coefficient</b>  | : Not determined.   |
| <b>Viscosity</b>                            | : Not determined.   |
| <b>Evaporation rate (butyl acetate = 1)</b> | : 0.36 (water) compared to Butyl acetate.   |

### Other information

## 10. Stability and reactivity

|   |                          |
|---|--------------------------|
| <b>Stability</b>                        | : The product is stable. |
| <b>Conditions to avoid</b>              | : None.                  |
| <b>Materials to avoid</b>               | : None.                  |
| <b>Hazardous decomposition products</b> | : None identified.       |

## 11. Toxicological information

### Potential Acute Health Effects

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | : May cause respiratory tract irritation.   |
| <b>Ingestion</b>    | : May irritate digestive tract.   |
| <b>Skin contact</b> | : Corrosive to the skin.  |
| <b>Eye contact</b>  | : May cause severe burns, irritation and damage, especially at higher concentrations. |

### Acute toxicity

| <u>Ingredient Name</u>  | <u>Test</u> | <u>Result</u> | <u>Route</u> | <u>Species</u> |
|---|-------------|---------------|--------------|----------------|
| poly(oxy-1,2-ethanediyl),<br>.alpha.-(nonylphenyl)-.omega.-hydro: | LD50        | 1310 mg/kg    | Oral         | Rat            |

**Carcinogenicity** : No carcinogenic effect known.

**Mutagenicity** : No mutagenic effect.

**Reproductive toxicity** : No teratogenic effect.

### Over-exposure signs/symptoms

**Target Organs** : Contains material which causes damage to the following organs: eye, lens or cornea.

**Other adverse effects** : Not available.

## 12. Ecological information

### Ecotoxicity Data

| <u>Ingredient Name</u>  | <u>Species</u>             | <u>Period</u> | <u>Result</u> |
|---|----------------------------|---------------|---------------|
| poly(oxy-1,2-ethanediyl),<br>.alpha.-(nonylphenyl)-.omega.-hydroxy- | Lepomis macrochirus (LC50) | 96 hour(s)    | 1.3 mg/l      |
|   | Oncorhynchus mykiss (LC50) | 96 hour(s)    | 4.7 mg/l      |
|   | Lepomis macrochirus (LC50) | 96 hour(s)    | 7.6 mg/l      |
|   | Lepomis macrochirus (LC50) | 96 hour(s)    | 7.9 mg/l      |
|   | Lepomis macrochirus (LC50) | 96 hour(s)    | >10 mg/l      |
|   | Lepomis macrochirus (LC50) | 96 hour(s)    | >1000 mg/l    |

**Mobility** : Not available.





**Other adverse effects** : Not available.

## 13. Disposal considerations

- Methods of disposal** : Avoid contact of spilled material and runoff with soil and surface waterways. Dispose of according to all federal, state and local applicable regulations.
- Waste Classification** : Not applicable.
- European Waste Catalogue (EWC)** : Not available.
- Hazardous Waste** : To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 91/689/EC.

## 14. Transport information

### International transport regulations

| Regulatory information | UN number | Proper shipping name   | Class | Packing Group | Label   | Additional information |
|------------------------|-----------|--|-------|---------------|---|------------------------|
| ADR/RID Class          | 1903      | Disinfectants, Liquid, Corrosive, N.O.S. (Quaternary Ammonium Compound) Limited Quantity | 8     | III           |    | -                      |
| ADN Class              | 1903      | Disinfectants, Liquid, Corrosive, N.O.S. (Quaternary Ammonium Compound) Limited Quantity | 8     | III           |    | -                      |
| IMDG Class             | 1903      | Disinfectants, Liquid, Corrosive, N.O.S. (Quaternary Ammonium Compound) Limited Quantity | 8     | III           |   | EmS:<br>F-A, S-B       |
| IATA-DGR Class         | 1903      | Disinfectants, Liquid, Corrosive, N.O.S. (Quaternary Ammonium Compound)                  | 8     | III           |  | -                      |

## 15. Regulatory information

### EU Regulations

**Hazard symbol(s)** :



Corrosive

**Risk phrases** :

- R34- Causes burns.  
R53- May cause long-term adverse effects in the aquatic environment.

**Safety phrases** :

- S24/25- Avoid contact with skin and eyes.  
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37/39- Wear suitable gloves and eye/face protection.  
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Contains** :

- quaternary ammonium compounds, benzyl-c12-18-alkyldimethyl, 269-919-4 chlorides

**Product Use** :

- Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and the intended use.  
- Industrial applications

**Additional Warning Phrases** :

- Safety Data Sheet available for professional user on request.

**EC Statistical Classification (Tariff Code)** :

- 32089091

## 16. Other information

**Full text of R phrases referred to in Sections 2 and 3 - United Kingdom (UK)** : R22- Harmful if swallowed.

**Full text of classifications referred to in Sections 2 and 3 - United Kingdom (UK)** : Xn - Harmful

### HISTORY

**Date of printing** : 5/11/2005.  
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**Prepared by** : Regulatory Affairs.

### Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*