

Section 1 - Product Information

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| Product Name: Ruhof Biocide | Supplier | The Ruhof Corporation |
| Product Code: 34566 | Information Phone: 1-800-537-8463 | Address 393 Sagamore Avenue Mineola NY 11501 |
| Product Use: Detergent Disinfectant | Emergency Contact: 1-800-424-9300 (Chemtrec) | |

Section 2 - Hazards Identification

GHS Classification Respiratory Sensitization Category 2

Section 2.1 Label Elements

| Hazard Pictograms | Precautionary Statements |
|---|--|
| Not Applicable | Prevention <ul style="list-style-type: none">Wear eye/face protection.Avoid breathing dust/fume/gas/mist/vapors/spray.In case of inadequate ventilation wear respiratory protection. Eyes <ul style="list-style-type: none">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. Inhalation <ul style="list-style-type: none">IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathingIf experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. |
| Signal Word: Not Applicable | |
| Hazard Statements: Causes eye irritation | |

Section 3 - Composition/Information on Ingredients

| Chemical Name | CAS-No | Weight % | Trade secret |
|-----------------------------------|--------|----------|--------------|
| N-ALKYL(60%C14;30%C16;5%C12;5%C18 | | - | * |
| DIMETHY BENZYL AMMONIUM CHLORIDES | | - | * |
| N-ALKYL(68%C12;38%C14) DIMETHYL | | - | * |
| ETHYLBENZYL AMMONIUM CHLORIDES | | - | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

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| General Advice | If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. |
| Eye Contact | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Immediate medical attention is required. |
| Skin Contact | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician. |
| Inhalation | Move to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician. |
| Ingestion | Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician. |

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

May cause sensitization by inhalation Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Prevent entry into waterways, sewers, basements or confined areas.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product.

Storage Keep in properly labeled containers. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls

Engineering Measures Showers, Eyewash stations, Ventilation systems

Individual protection measures, such as personal protective equipment



Eye/Face Protection Wear safety goggles.

Skin and Body Protection Lightweight protective clothing. Impervious gloves.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical State | Odor | Appearance | pH | Melting Point/Range | Boiling Point |
|-------------------|---------------------|-------------------|------------------|---------------------|----------------------|
| Liquid | Mild | Light Yellow | 11-12 | No data available | >100C |
| Flash Point | Flammability Limits | Vapor Pressure | Specific Gravity | Water Solubility | Flammable Properties |
| No data available | No data available | No data available | 1.01-1.03 | Soluble | Not Flammable |

10. STABILITY AND REACTIVITY

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|------------------------------------|--|
| Reactivity | No data available. |
| Chemical stability | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | None under normal processing. |
| Hazardous Polymerization | Hazardous polymerization does not occur. |
| Conditions to avoid | None known based on information supplied. |
| Incompatible materials | None known based on information supplied. |
| Hazardous decomposition products | None known based on information supplied. |

11. TOXICOLOGICAL INFORMATION

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|---|---|
| Inhalation | May be harmful if inhaled |
| Eye Contact | Irritating to eyes. Causes serious eye damage. |
| Skin Contact | May cause irritation. |
| Ingestion | There is no data available for this product. |
| Delayed and immediate effects and also chronic effects from short and long term exposure | |
| Sensitization | May cause sensitization of susceptible persons. May cause sensitization by inhalation. |
| Carcinogenicity | Contains no ingredients above reportable quantities listed as a carcinogen. |
| Chronic Toxicity | Avoid repeated exposure. Repeated contact may cause allergic reactions in very susceptible persons. |
| Target Organ Effects | Respiratory system. Eyes. Skin. |

12. ECOLOGICAL INFORMATION

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| Ecotoxicity | The product is not expected to be hazardous to the environment. |
| Persistence and Degradability | No information available. |
| Bioaccumulation | The product does not contain any substances expected to be bioaccumulating. |
| Other Adverse Effects | No information available. |

13. DISPOSAL CONSIDERATIONS

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| Waste Disposal Methods | Dispose of in accordance with federal, state, and local regulations |
| Contaminated Packaging | Do not re-use empty containers. |

14. TRANSPORT INFORMATION

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| DOT | The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID). |
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15. REGULATORY INFORMATION

| Safety, health and environmental regulations/legislation specific for the substance or mixture | |
|--|---|
| EU Legislation | The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006 |
| National Regulations | The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40) |

16. OTHER INFORMATION

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|-------------|-----------------|----------------|-------------------|---------------------------------|
| NFPA | Health Hazard 1 | Flammability 0 | Instability 0 | Physical and Chemical Hazards - |
| HMS | Health Hazard 1 | Flammability 0 | Physical Hazard 0 | Personal Protection X |



Prepared By
The Ruhof Corporation
393 Sagamore Avenue
Mineola, NY 11501

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General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet