

Biosonic® Germicidal Ultrasonic Cleaner Concentrate

Revision Date: September 2014

Internal Document Number: 48238A

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Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Biosonic® Germicidal Ultrasonic Cleaner Concentrate

Product Code(s): UC38, UC42

Relevant identified uses of the mixture and uses advised against: Intended for use with an ultrasonic cleaner for cleaning medical instruments. Can also be used as instrument pre-soak and carrier bath in tank when using beakers.

Synonyms: UC38, UC42

Manufacturer 

Coltene/Whaledent Inc.

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Copies of this SDS can be found at
www.coltene.com

Section 2: HAZARDS IDENTIFICATION

Classifications: Skin Corrosion/Irritation Category 1 Sub-Category C, Serious Eye Damage/Eye Irritation Category 1, Flammable Liquids Category 3

Appearance: Clear, Light Amber Liquid, Mild Lavender Odor

Contains: Alcohols, Sodium Orthobenzyl Parachlorophenate, Sodium Ortho Phenylphenate, Sodium Para Tertiary Amyl Phenate

Route(S) Of Exposure: Dermal, Eye, Inhalation, Ingestion

This product is a U.S. EPA Registered pesticide, EPA Reg. No. 211-36, and is subject to specific labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products. FIFRA labels approved by EPA pre-empt OSHA's label requirements.

OSHA Labeling Elements:

Hazard Category

Skin corrosion/irritation Category 1
 Sub-category C

Serious eye damage/eye irritation
 Category 1

Flammable Liquids Category 3

Signal Word:

Danger

Hazard Statements:

Causes severe skin burns and eye damage

Flammable liquid and vapor



Prevention:

Do not breathe
 dust/fume/gas/mist/vapors/spray

Wash face, hands and any
 exposed skin thoroughly after
 handling

Wear protective gloves/protective
 clothing/eye protection/face
 protection

Keep away from heat/sparks/open

Response:

Immediately call a POISON CENTER or
 doctor/physician

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

IF ON SKIN (or hair): Remove/Take off
 immediately all contaminated clothing.

Storage:

Store locked up –
 KEEP OUT OF THE
 REACH OF
 CHILDREN

Store in a well-
 ventilated place. Keep
 cool.

Disposal:

Clean container promptly after
 emptying.

Triple rinse as follows: Empty the
 remaining contents into application
 equipment or a mix tank and drain
 for 10 seconds after the flow

begins to drip. Fill the container ¼
 full with water and recap. Shake
 for 10 seconds. Pour rinsate into
 application equipment or a mix

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flames/hot surfaces. — No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof equipment

Use only non-sparking tools

Take precautionary measures against static discharge

Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Get medical attention if symptoms persist

IF SWALLOWED: Call a poison center or doctor/physician

Do not induce vomiting. Rinse mouth. Never give anything by mouth to a person who is unconscious or convulsing.

Note to physician: If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the

affected person appropriately.

IN CASE OF FIRE: Use CO₂, dry chemical, or foam for extinction

tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Other Hazards: Toxic to aquatic life

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

| Substance | CAS | Percent (w/w%) |
|--------------------------------|----------|----------------|
| Isopropyl Alcohol | 67-63-0 | < 8 |
| Ortho-benzyl-para-Chlorophenol | 120-32-1 | < 5 |
| Para-tertiary Amylphenol | 80-46-6 | < 3 |
| 2-Phenylphenol | 90-43-7 | < 3 |

Section 4: FIRST AID MEASURES

General Advice Provide this SDS to medical personnel for treatment. Always get medical attention when product is swallowed or when symptoms are significant or persist.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact Wash liberally with soap and water. If on clothes: Wash before reuse. If symptoms persist, call a physician.

Inhalation Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician / poison center if individual's condition declines or if symptoms persist.

Ingestion If patient is conscious and alert, dilute by drinking milk, egg whites or large quantities of water. Do not induce vomiting without medical advice. Get medical attention immediately.

Most important symptoms and effects: Symptoms - If in eyes: Burning sensation, watering, or redness. If on skin: Redness, irritation, or burning sensation with prolonged exposure. If spray mist is inhaled: Possible lung damage, irritation and/or burning sensation. If swallowed: Drowsiness, irregular pulse, loss of consciousness. Possible gastrointestinal irritation or disturbance such as cramps and stomach pains.

Indication of any immediate medical attention and special treatment needed: Notes to Physician: If the product is ingested, probable mucosal damage may contraindicate

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Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Alcohol resistant foam, carbon dioxide, or dry chemical.

Unsuitable Extinguishing Media: Not determined.

Specific Hazards Arising from the Chemical: Flammable liquid and vapor.

Hazardous Combustion Products: Burning may release combustion products such as Phenolics, carbon monoxide, carbon dioxide, and chlorine.

Sensitivity to Static Discharge: Take precautionary measures against static discharge.

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. Use water spray to keep exposed containers cool to prevent bursting.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: use personal protection recommended in Section 8.

Methods for Containment and Clean-up: Prevent further leakage or spillage if safe to do so. Absorb spill with an inert absorbent material. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. This product is toxic to fish and aquatic organisms.

Other Information: none noted

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Do not contaminate water, food, or feed. Do not reuse empty containers. Keep containers clean and closed. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Ground/bond container and receiving equipment. Use non-sparking hand tools and explosion-proof electrical equipment. Take precautionary measures against static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling.

Conditions for Safe Storage, Including Incompatibilities: Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep out of the reach of children. Store locked up. Keep cool Do not store at temperatures above 120°F.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Component Exposure Limits:

| Component: | ACGIH TLV: | NIOSH ILDH: | OSHA PEL: |
|------------------------------|-------------------------------|---|---|
| Isopropyl Alcohol 67-63-0 | STEL: 400 ppm TWA: 200 ppm | IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m3 STEL: 500 ppm STEL: 1225 mg/m3 | TWA: 400 ppm TWA: 980 mg/m3 (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m3 (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m3 |

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| | | | |
|-------------------------------|------------------------------|--|--|
| Sodium hydroxide 1310-73-2 | Ceiling: 2 mg/m ³ | IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³ | TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³ |
|-------------------------------|------------------------------|--|--|

Appropriate Engineering Controls: Mechanical (General): Normally Sufficient Local Exhaust: Not Normally Needed.

Personal Protective Equipment (Eyes and Face): USE Safety Glasses when splashing or spraying of the product into the eyes is likely or possible.

Personal Protective Equipment (Skin): Gloves are required for exposure to the concentrate when diluting or for long exposures to end-use dilutions. Persons sensitive to cleaning chemicals should always wear gloves.

Personal Protective Equipment (Respiratory): General ventilation is normally adequate. Use appropriate respiratory protection if application method produces a fine spray or mists.

General Hygiene Considerations: Wash hands after using. Do not get into eyes, on skin, or clothing. May be harmful if swallowed. Protect food and drink from contamination by product. Wash contaminated clothing before reuse

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---------------------|--------------------------------|--------------------|
| Appearance: | Clear, amber liquid | Viscosity: | No data |
| Odor: | Mild lavender | Odor Threshold: | No data |
| pH: | 11.50-12.50 | Boiling Point: | 100 °C / 212 °F |
| Melting Point: | No data | Solubility (H ₂ O): | Completely soluble |
| Specific Gravity: | 1.05-1.07 | Density: | 8.75-8.92 lbs/gal |
| Octanol / H ₂ O Coefficient: | No data | Evaporation Rate: | No data |
| Molecular Weight: | No data | Decomposition Temp: | No data |
| Auto Ignition: | No data | LFL: | No data |
| Flash Point: | 46.11 °C / 115 °F | UFL: | No data |
| Vapor Density: | No data | Vapor Pressure: | No data |
| VOC: | No data | Flammability Class: | No data |

Section 10: STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None under normal processing.

Conditions to Avoid: Extreme high temperatures, sparks and open flames. Incompatible Materials.

Incompatibility: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide (CO₂).

Section 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Dermal (Skin And Eye), Inhalation, Ingestion

Information on likely routes of exposure

Eye Contact: Causes severe eye damage.

Skin Contact: Causes severe skin burns.

Inhalation: Avoid breathing vapors or mists. May cause irritation to the mucous membranes and upper respiratory tract.

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Ingestion: Ingestion causes burns of the upper digestive and respiratory tracts.

| Chemical Name | Oral LD ₅₀ | Dermal LD ₅₀ | Inhalation LC ₅₀ |
|---|-----------------------|-------------------------|---|
| Isopropyl Alcohol 67-63-0 | = 4396 mg/kg (Rat) | = 12800 mg/kg (Rat) | = 12870 mg/kg (Rabbit) = 72.6 mg/L (Rat) 4 h |
| Ortho-benzyl-para-hlorophenol 120-32-1 | = 1700 mg/kg (Rat) | - | - |
| Para-tertiary Amylphenol 80-46-6 | = 1830 mg/kg (Rat) | = 2 g/kg (Rabbit) | - |
| 2-Phenylphenol 90-43-7 | = 1049 mg/kg (Rat) | > 2000 mg/kg (Rat) | > 0.949 mg/L (Rat) 1 h |
| Sodium hydroxide 1310-73-2 | - | = 1350 mg/kg (Rabbit) | - |

Carcinogenicity: Isopropyl Alcohol, 2-Phenylphenol are listed by IARC as Group "not classifiable as human carcinogens".

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic organisms.

Persistence / Degradability Not determined.

Bioaccumulative Potential: Not determined.

Mobility in Soil: moderate to high mobility in soil (Isopropyl Alcohol, Partition Coefficient = 0.05 / 2-Phenylphenol, Partition Coefficient = 3.18)

Other Adverse Effects: Not determined.

Section 13: DISPOSAL CONSIDERATIONS

Disposal: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Additional Disposal Considerations:

Dispose if shelf-life has been exceeded.

Container Disposal: Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

California Hazardous Waste Status:

Isopropyl Alcohol – CAS 67-63-0: Toxic Ignitable

Sodium hydroxide – CAS 1310-73-2: Toxic Corrosive




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Section 14: TRANSPORT INFORMATION

| Agency | Proper Shipping Name | UN-No. | Hazard Class | Label |
|---------------------------------------|---|--------|--------------------|--|
| DOT | Consumer Commodity | ID8000 | Consumer Commodity |  |
| *Sea Transport IMDG/GGV Sea | FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ISOPROPANOL, SODIUM HYDROXIDE) | UN2924 | 3, 8 PG III |   |
| Air Transport ICAO-Ti and IATA-DGR | | | | |

*This material may meet the definition of a marine pollutant

Section 15: REGULATORY INFORMATION

This product is a U.S. EPA Registered pesticide, EPA Reg. No. 211-36, and is subject to specific labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products. FIFRA labels approved by EPA pre-empt OSHA's label requirements.

EPA Registration Number 211-36-61584

EPA Establishment Number 061584-OH-001

CERCLA: This mixture contains Sodium hydroxide CAS 1310-73-2. Sodium Hydroxide has a reportable quantity threshold of 1000 lb / 454 kg.

SARA Section 313:

| Chemical Name | CAS No | Weight-% | SARA 313 – Threshold Values % |
|--------------------------------|----------|----------|-------------------------------|
| Isopropyl Alcohol | 67-63-0 | 5-10 | 1.0 |
| Ortho-benzyl-para-Chlorophenol | 120-32-1 | 1-5 | 0.1 |
| 2-Phenylphenol | 90-43-7 | 1-5 | 1.0 |

Inventories: Not determined

California Proposition 65: This Product Contains Chemicals Known To The State of California To Cause Cancer.

Canadian Regulations require the inclusion of the following statements under "Regulatory Information": This product has been classified in accordance with the hazard criteria of the controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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Section 16: OTHER INFORMATION**NFPA Ratings:****Health: 2****Fire: 2****Reactivity: 0****HMIS Ratings:****Health: 2****Fire: 2****Reactivity: 0**

(NFPA and HMIS Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe)

REVISION HISTORY

| REVISION | DATE | ECN# | CHG BY | APPR BY | DESC. OF CHANGE |
|----------|----------|-------|--------|---------|--|
| A | 09/12/14 | 14378 | TG | SBL | Updated MSDS to GHS/SDS Format. 48238-01 Revision A supersedes 48004 revision G. |

The information and recommendations set forth herein are presented in good faith and are believed to be correct as of the date hereof. Coltene/Whaledent Inc., however, makes no representations as to the completeness of this information and supplies it on the condition that the persons receiving same will make their own determination as to its suitability of their purposes prior to use. In no event will Coltene/Whaledent Inc. be responsible for damages of any nature whatsoever resulting from use of or reliance upon information.