

Dentronix® Multipurpose Ultrasonic Cleaning Solution Super Concentrate

Revision Date: October 2014

Internal Document Number: 48231-01B

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Section 1: PRODUCT AND COMPANY IDENTIFICATION**Product Name:** Dentronix® Multipurpose Ultrasonic Cleaning Solution Super Concentrate**Product Code(s):** DMP-USP, DMP1**Relevant identified uses of the mixture and uses advised against:** intended for use with an ultrasonic cleaner for cleaning medical instruments. Uses advised against: none noted.**Synonyms:** MP-US**Manufactured for:**

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

Section 2: HAZARDS IDENTIFICATION**Classification:** Reproductive Toxicant / Category 1B, Serious Eye Irritant / Category 2**Appearance:** Transparent, Green, with amine/ alcohol odor**Contains:** Disodium Tetraborate Pentahydrate, Alkylpolyglycosides,**Route(s) of Exposure:** Ingestion, Dermal (skin/eyes), Inhalation (vapors)**Labeling Elements:****Hazard Category**Reproductive Toxicant /
Category 1BSerious Eye Irritant /
Category 2**Signal Word:**

DANGER

Hazard Statements:H360FD: May damage fertility.
May damage the unborn child.H319: Causes serious eye
irritation**Prevention:**

P201 P202 P281 Obtain
special instructions
before use. Do not
handle until all safety
precautions have been
read and understood.
Use personal protective
equipment as required.

P264 + P280 Wash
hands thoroughly after
handling. Wear eye
protection.

Response:

P308 + P313 IF exposed or
concerned: Get medical
advice/attention.

P305 + P351 + P338 + P337 + P313
If in eyes: Rinse cautiously with water
for several minutes. Remove contact
lenses, if present and easy to do.
Continue rinsing. If eye irritation
persists: Get medical
advice/attention.

Storage:P405 Store
locked up.**Disposal:**

P501 Dispose of
contents/container in
accordance with federal, state
and local regulations

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Classification in Accordance with 67/548/EEC and 1999/45/EC: T – Toxic, R60-61-36, S53-26-35-45-36/37 (see section 15 for full text).

PBT/vPvB Assessment: This product does not contain persistent, bioaccumulative and toxic chemicals (PBT's) nor does this product contain any very persistent and very bioaccumulative chemicals (vPvB's).

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance	CAS	EC number	Percent (w/w%)
Disodium Tetraborate Pentahydrate (Borax Pentahydrate)	12179-04-3	215-540-4	7.5
Alkylpolyglycosides	68515-73-1	500-220-1	10-15

Section 4: FIRST AID MEASURES

Inhalation: Move victim to fresh air. Call 911 or emergency medical service. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Eyes: Irrigate exposed eyes with copious amounts of room temperature water for at least 15 minutes. If irritation, pain, swelling, lacrimation, or photophobia persist, the patient should be seen in a health care facility.

Skin: Remove contaminated clothing and wash exposed area thoroughly with soap and water. A physician may need to examine the area if irritation or pain persists.

Ingestion: May cause slight irritation to the digestive tract. Contact a physician if ill effects persist.

Section 5: FIRE FIGHTING MEASURES

Extinguishing Media: if material involved in fire: extinguish fire using agent suitable for type of surrounding fire. Cool all affected containers with flooding quantities of water. Apply water from as far a distance as possible.

Specific Hazards Arising from the Chemical: None known.

Protective Equipment and Precautions for Firefighters: standard protection for all firefighters stated in this subsection of the SDS text should include self-contained breathing apparatus (SCBA) and full firefighting turn-out gear (Bunker gear).

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: Ventilate contaminated area, remove all sources of ignition, stop or reduce discharge if it can be done safely.

Other Information: none noted

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling: use with adequate ventilation, do not use near ignition sources.

Conditions for Safe Storage, Including Incompatibilities: store in a cool, dry location.

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Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**Component Exposure Limits:**

Component:	Concentration:	NIOSH REL:	OSHA PEL:	IDLH:	AIHA WEEL	STEL's	Notation
Disodium Tetraborate Pentahydrate	7.5 %w/w	TWA 5 mg/m ³	none	none	none	none	none

Appropriate Engineering Controls: sufficient exhaust & general ventilation should be provided to keep vapor concentration below recommended levels.

Personal Protective Equipment (Eyes and Face): wear safety goggles or face shield.

Personal Protective Equipment (Skin): wear protective gloves

Personal Protective Equipment (Respiratory): none required for well-ventilated areas.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Transparent, Green Liquid	Viscosity:	60 cps
Odor:	Floral / Soapy		(Brookfield LVT#1, 30 RPM)
Odor Threshold:	No data	VOC:	No data
pH:	7 - 9	Boiling Point:	100°C (212°F)
Melting Point:	Not applicable	Solubility (H₂O):	No data
Specific Gravity:	1.08 g/cc (25°C)	Evaporation Rate:	No data
Octanol / H₂O Coefficient (log <i>k_{ow}</i>):	No data	Decomposition Temp:	No data
Molecular Weight:	No data	LFL:	No data
Auto Ignition:	No data	UFL:	No data
Flash Point:	>100°C (> 212°F)	Vapor Pressure:	No data
Vapor Density:	No data	Flammability Class:	No data

Section 10: STABILITY AND REACTIVITY

Chemical Stability: Chemically Stable

Possibility of Hazardous Reactions: This product is not known to be susceptible to chemical reactions that can result in undesirable effect(s).

Conditions to Avoid: Freezing may impact the effectivity of the solution.

Incompatibility: Chemically-active metals such as potassium, beryllium, powdered aluminum, zinc, calcium, magnesium & sodium acids should be avoided.

Hazardous Decomposition Products: No data.

Section 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Ingestion, Dermal (Skin/Eyes), Inhalation (Vapors)

Acute Effects:

Inhalation: All ingredients present in concentrations greater than 1 %w/w have an LC50 greater than 20 mg/L. Acute effects from vapors are not expected to be hazardous.

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Eye Contact: Concentration of ingredients classified as Eye Category 1 or 2 has triggered classification of the mixtures as hazardous to the eye. Symptoms of exposure are irritation, pain, swelling, lacrimation, or photophobia.

Skin: Contact with this material cause slight irritation.

Ingestion: All relevant ingredients present in quantities greater than 1 %w/w have an oral / dermal LD50 greater than 2000 mg/kg body weight. Acute effects from ingestion are not likely, Observe patients with ingestion carefully for the possible development of esophageal or gastrointestinal tract irritation or burns. If signs or symptoms of esophageal irritation or burns are present, consult a physician.

Sensitization: May cause skin sensitization.

Ingestion: May cause irritation to the digestive tract

Carcinogenicity: Does not contain any substances classified as carcinogens by NTP, ACGIH, IARC or OSHA

Mutagenicity: Not mutagenic

Reproductive Toxicity: This product contains 7.5%w/w Disodium Tetraborate Pentahydrate suspended in solution: There have been limited animal studies which suggest decreased ovulation, fetotoxicity and developmental defects may occur with very high exposure levels. Maternal toxicity was present in some studies.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: LC50 : 10-100 mg/l (Semistatic) fish

Persistence / Degradability This material degrades rapidly in the environment

Bioaccumulative Potential: will not bioconcentrate in fish and aquatic organisms nor will it adsorb to sediment and suspended organic matter.

Mobility in Soil: moderate to high mobility in soil

Other Adverse Effects: none known.

This product does not contain persistent, bioaccumulative and toxic chemicals (PBT's) nor does this product contain any very persistent and very bioaccumulative chemicals (vPvB's).

Section 13: DISPOSAL CONSIDERATIONS

Disposal: Dispose of in accordance with federal, state and local regulations.

Additional Disposal Considerations: Dispose if shelf-life has been exceeded.

Section 14: TRANSPORT INFORMATION

Agency	Proper Shipping name	Technical Shipping Name	UN-No.	Hazard Class	Label
DOT	NOT REGULATED FOR TRANSPORTATION				
Sea Transport IMDG/GGV Sea					
Air Transport ICAO-Ti and IATA-DGR					

Section 15: REGULATORY INFORMATION

SARA Sections 302 and 304: This product does not contain Extremely Hazardous Substances (EHS) and is not subject to emergency planning requirements.

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CERCLA: This product does not contain CERCLA Hazardous Substances and is not subject to reporting requirements.

SARA Section 313: Substances within this product are not required to be reported in accordance with SARA 313 or the substances within are exempt by rules for "de minimis concentrations of a toxic chemical in a mixture" §372.38(a).

International Inventories:

US (TSCA): The components within this product are included on the TSCA Inventory of Chemical Substances

Canada (DSL): All ingredients are on the inventory or exempt from listing.

European Union (EINECS): All ingredients conform to the EU requirements.

Japan (ENCS): All other ingredients are on the inventory or exempt from listing.

Philippines (PICCS): All other ingredients are on the inventory or exempt from listing.

South Korea (KECL): All ingredients are on the Inventory or exempt from listing.

Australia (AICS): All ingredients are on the Inventory or exempt from listing.

New Zealand (NZIoC): All ingredients are on the Inventory or exempt from listing.

China (IECSC): All ingredients are on the Inventory or exempt from listing.

California Proposition 65: There are no chemicals within this mixture on the Proposition 65 List.

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.

Classification in Accordance with 67/548/EEC and 1999/45/EC Full Text: T – Toxic, R60 May impair fertility. R61 May cause harm to the unborn child. R36 Irritating to eyes. S53 Avoid exposure - obtain special instructions before use. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S35 This material and its container must be disposed of in a safe way. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S36/37 Wear suitable protective clothing and gloves.

Section 16: OTHER INFORMATION**NFPA Ratings:****Health: 1****Fire: 1****Reactivity: 0****HMIS Ratings:****Health: 1****Fire: 1****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	10/03/14	14425	TG	SBL	Updated MSDS to GHS/SDS Format. P/N 48231-01 Revision A was 48028 revision G.
B	10/28/14	14488	SBL	PS	Modified address in Section 1.

The information and recommendations set forth herein are presented in good faith and are believed to be correct as of the date hereof. Dentronix, 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 Dentronix, Inc. be responsible for damages of any nature whatsoever resulting from use of or reliance upon information.