

SAFETY DATA SHEET

Section1- Identification

Product identifier used on the label:

Product Name: iSonic DualZyme Dual Enzymatic Ultrasonic Cleaning Tablet

Product Code: CTDE01

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Ultrasonic Cleaning tablets

Manufacturer Information:

Manufacturer Name: ISONIC INC
Address: 2243 S. THROOP
CHICAGO, IL 60608
USA

General Phone Number: (847)850-0404

Emergency contact: 1-630-935-0775 (Inside/Outside U.S.A.) 24 hours

In case of medical emergencies, please contact local poison control center.

Date: February 15, 2016

Section 2- HAZARD(S) IDENTIFICATION



Signal Word:

DANGER.

GHS Class:

Serious Eye Damage. Category 1.

Skin corrosion.

Category 1.

Hazard Statements:

H318 Causes serious eye damage.

H314 Causes severe skin burns and eye damage.

Precautionary Statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see ... on this label).
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with Local, State, Federal and Provincial regulations.

Route of Exposure:

Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Eye:

Corrosive. Will cause eye burns and may cause permanent tissue damage.

Skin:

Severely irritating may cause permanent skin damage.

Inhalation:

May cause severe respiratory system irritation.

Ingestion:

Harmful if swallowed. Corrosive to the gastrointestinal tract.

Chronic Health Effects:

May causes burns in the event of prolonged skin contact. Repeated or prolonged inhalation may cause toxic effects.

Signs/Symptoms:

Depending on solution concentration, material may be corrosive to skin, mucous membranes and eyes. Vapors may cause respiratory irritation.

Target Organs:

Eyes. Skin. Respiratory system. Digestive system.

Aggravation of PreExisting

Conditions:

May aggravate preexisting respiratory disorders, allergy, eczema, or skin conditions.

Section 3- COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Sodium Bicarbonate	144558	25-30 by weight	
Citric Acid USP Granular Anhydrous	77929	15-20 by weight	
MALTRIN QD M500	9050366	15-20 by weight	
Sucrose	57501	15-20 by weight	
Enzyme Cultures	Trade Secret	10-15 by weight	

Notes: Microbial species types are withheld in order to protect trade secrets.

The remaining components of this product are nonhazardous or are in a small enough quantity as to not meet regulatory thresholds for disclosure.

Section 4- First Aid Measures

Eye:

Flush eyes immediately with plenty of water for a minimum of 15 to 20 minutes. Separating of the eyelids will help ensure adequate flushing of the eyes. If possible/ manageable, Remove contacts if present. Continue rinsing for 5 to 10 minutes. If irritation or symptoms of overexposure persists seek medical attention.

Skin Problem:

Wash exposed skin immediately with plenty of soap and water for 15 to 20 minutes. Remove any contaminated clothing. Seek medical attention if irritation or symptoms of overexposure persists.

Inhalation:

In case of inhalation, remove immediately to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion:

Do not induce vomiting if swallowed. Call a physician or poison control center immediately.

Section 5 – Fire Fighting Measures

Extinguishing Media:

Water, Carbon Dioxide, Dry Chemical

Explosion Hazard:

No applicable information has been found.

Fire Fighting Instructions:

Contact emergency personnel. Use self- contained breathing apparatus and full protective gear, if large quantities of product are involved. Hazardous decomposition products may be release. Thermal degradation may produce oxides of carbon and/or nitrogen; hydrocarbons and/or derivatives.

NFPA Ratings:

NFPA Health:	3
NFPA Flammability:	1
NFPA Reactivity:	2

Section 6- Accidental Release Measures

Personnel Precautions:

Evacuate contaminated area and keep unnecessary and unprotected personnel from entering the spill area. Use proper personal protective equipment as listed in section 8.

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Methods for containment: Contain spills with an inert absorbent material such as soil or sand. Prevent from spreading by covering, diking or other means.

Methods for cleanup: Scrub off access and vacuum spills.

Procedures for Spill/Leak Clean-up:

Vacuum or moisten with water and collect into closed disposal container.

Waste Disposal Method: Follow local, state, and federal regulations for disposal. Product is Biodegradable.

Section 7- Handling and Storage

Methods for safe handling:

Handling: Corrosive. Use proper personal protective equipment as listed in section 8. Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing. Wash hands thoroughly after handling.

Hygiene Practices: Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling.

Methods of safe storage, including any incompatibilities:

Storage: Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and in compatible substances. Keep container tightly closed when not in use. Keep only in the original, corrosive resistant container and store locked up.

Section 8- Exposure Controls, Personal Protection

EXPOSURE GUIDELINES:

Guideline ACGIH: Exposure limits are not established

Guideline OSHA: Exposure limits are not established

Appropriate engineering controls:

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended

exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Individual protection measures:

Eye/Face Protection:

Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection Description:

Chemical resistant gloves and chemical goggles, face shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.

Respiratory Protection:

A NIOSH approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PPE Pictograms:



Section 9 – Physical and Chemical Properties

Color, Odor, and Appearance:

Blue and White speckled tablet, Mint Aroma

Physical State: solid

Solubility in Water: Readily Soluble

Section 10- Stability and Reactivity Data

Chemical Stability: Stable

Conditions to Avoid: Extremely High Temperatures

Section 11- Toxicological Information

Sodium Bicarbonate:

Eye:	Administration into the eye Rabbit
Standard Draize test:	100 mg/30S [Mild] (RTECS)
Ingestion:	Oral Rat LD50 Lethal dose, 50 percent kill: 4220 mg/kg [Details of toxic effects not reported other than lethal dose value] (RTECS)

Citric Acid USP Granular Anhydrous :

Eye:	Administration into the eye Rabbit
Standard Draize test:	750 ug/24H [Severe] (RTECS)
Ingestion:	Oral Rat LD50 Lethal dose, 50 percent kill: 3 gm/kg [Details of toxic effects not reported other than lethal dose value] Oral Rat LD50 Lethal dose, 50 percent kill: 11700 mg/kg [Behavioral Ataxia Cardiac Change in rate Lungs, Thorax, or Respiration Respiratory depression] (RTECS)

MALTRIN QD M500:

Ingestion:	Expected to be a low ingestion hazard.
Inhalation:	Inhalation of dusts may cause respiratory irritation.
Skin contact:	No adverse effects due to skin contact are expected.
Eye contact:	Dust in the eyes will cause irritation.
Acute toxicity:	Not available

Sucrose

Ingestion:	Not available
Inhalation:	Not available
Skin contact:	Not available
Eye contact:	Not available
Acute toxicity:	Not available

Microbial Cultures:

Eye contact:	Dust contact with the eyes can lead to mechanical irritation
Skin contact:	Prolonged or repeated contact may dry skin or cause irritation.
Inhalation:	Inhalation of dust in high concentrations may cause irritation of the respiratory system.
Ingestion:	May cause temporary gastrointestinal discomfort
Acute toxicity:	Not available

Section 12- Ecological Information

The product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Additional information is available from the supplier on request.

Section 13- Disposal Information

Waste Disposal Method: Follow local, state, and federal regulations for disposal. Product is Biodegradable.

Section 14- Transportation Information

Finished packaged product transported by ground (DOT): Non-hazardous

Finished packaged product transported by vessel (IMDG): Non- hazardous

Finished packaged product transported by air (IATA): Non hazardous

Section 15- Regulatory information

Sodium Bicarbonate:

TSCA Inventory Status: Listed

Canada DSL: Listed

Citric Acid USP Granular Anhydrous :

TSCA Inventory Status: Listed

Canada DSL: Listed

MALTRIN QD M500:

TSCA Inventory Status: Listed

Canada DSL: Listed

Sucrose

TSCA Inventory Status: Listed

Canada DSL: Listed

Microbial Cultures:

TSCA Inventory Status: Listed
Canada DSL: Listed

Section 16- Addistional information



Personal protection is required for this item, refer to section 8 more information

Revision date: 02-15-2016

SDS Author: Regulatory department

Disclaimer:

This SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered to be dependable and is accurate to the best of the company's knowledge. It is not meant to be an all- inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. The company assumed no responsibility for injury to the recipient or third persons or for any damage to any property resulting from misuse of the product.