

Midmark Corporation  
60 Vista Drive  
Versailles, OH 45380

Safety Data Sheet (SDS)  
OSHA HazCom Standard 29 CFR 1910.1200.

**SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Enzymatic Ultrasonic Cleaner

**Product Number:** DP5500

**Contact:**  
MIDMARK CORPORATION  
60 VISTA DRIVE  
VERSAILLES, OH 45380

**Tel:** 800-643-6275  
**Fax:** 937-526-8285 (Sterilizer Op Group)

**EMERGENCY TELEPHONE NUMBERS**

24 HOURS A DAY	CHEMTREC 800-424-9300
INTERNATIONAL	CHEMTREC 703-527-3887
8 AM TO 4:30 PM - CENTRAL TIME	262-255-9500

**SECTION 2 – HAZARD(S) IDENTIFICATION**

Classification of the substance or mixture



Causes skin irritation.  
Causes eye irritation and redness.  
May cause respiratory irritation.

Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS07

*Signal word:* Warning

*Hazard statements*

Harmful if swallowed.  
Causes skin irritation.  
May causes serious eye damage.

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May cause an allergic skin reaction.

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**Precautionary statements**

Avoid breathing fume/gas/mist/vapors/spray.

Wear protective gloves/protective clothing/eye protection.

Wash thoroughly after handling.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

If skin irritation or rash occurs: Get medical advice/attention.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

IF ON SKIN: Wash with plenty of water.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system:**

**NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 0

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 0

Reactivity = 0

**SECTION 3 - COMPOSITION /INFORMATION ON INGREDIENTS**

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

**Components:**

CAS No.	Description	% Range	Hazard Classification
CAS: 7732-18-5	Water	60-95%	Hazard Classification: None Risk Phrases: None
CAS: 84133-50-6	Secondary alcohol ethoxylate	5-10%	⚠ Skin Irrit. 2, H315
CAS: 7758-29-4	Sodium tripolyphosphate	1-5%	⚠ Skin Irrit. 2, H315 ⚠ Eye Irrit. 2, H319

**Additional information:**

Trade Secret/Proprietary made in accordance with paragraph (i) of 1910.1200 of 29 CFR 1910.1200, the OSHA Communication Standard

**SECTION 4 - FIRST AID INFORMATION**

Description of first aid measures

**General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the

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accident.

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**After inhalation:**

If having difficulty breathing, contact emergency personnel immediately  
Supply fresh air and to be sure call for a doctor.

**After skin contact:**

Remove contaminated clothing. Wash clothing before reuse.  
Immediately wash with water and soap and rinse thoroughly.

If irritation occurs consult a doctor.

**After eye contact:**

Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes.

Seek medical treatment.

**After swallowing:**

Do NOT induce vomiting and call for medical help.

Never give anything by mouth to an unconscious person.

Immediately call a doctor.

**Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**Information for doctor:**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5 - FIRE-FIGHTING INFORMATION**

**Extinguishing media**

**Suitable extinguishing agents:**

Water spray, dry chemical, alcohol foam or carbon dioxide. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards arising from the substance or mixture**

Use self contained breathing apparatus and protective equipment.

**Advice for firefighters**

**Protective equipment:**

Full protective clothing and self-contained breathing apparatus should be worn.

**SECTION 6 - ACCIDENTAL RELEASE INFORMATION**

**Personal precautions, protective equipment and emergency procedures:**

Refer to section 8

**Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

**Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to section 13.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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**SECTION 7 - HANDLING AND STORAGE**

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**Precautions for safe handling:**

Avoid contact with skin, eyes and clothing

**Information about protection against explosions and fires:**

No special measures required.

**Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Keep container tightly closed.

Store in a well ventilated place.

Store in a cool, dry place.

**Information about storage in one common storage facility:**

Not required.

**Further information about storage conditions:**

Use plastics or stainless steel for suitable packaging.

**Precautions for safe handling:**

Avoid contact with skin, eyes and clothing.

**Specific end use(s)**

No further relevant information available.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Additional information about design of technical systems:**

No further data; see section 7.

**Control parameters**

**Components with occupational exposure limits:**

Federal guidelines suggest to treat the ingredient in this product as a nuisance dust, as no product specific guidelines have been issued for exposure.

Particulates Not Otherwise Regulated: OSHA (PEL/TWA): None available. ACGIH (TLV): None available

**Additional information:**

The lists that were valid during the creation were used as basis.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

Keep away from tobacco products.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

**Breathing equipment:** Not required.

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**Protection of hands:**



Protective Gloves

**Protection of eyes:**



Protective goggles

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

**Material of gloves**

The selection of the suitable gloves depends on the material, and marks of quality, and varies from manufacturer to manufacturer.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

**Eye protection:**

Have a safety shower and eyewash fountain readily available in the immediate work area.

Tightly seal goggles.

**Body protection:** Protective work clothing

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

General Information

**Appearance:**

Form: Liquid

Color: Red

Odor: No significant odor

Odor threshold: Not determined

pH-value @ 20° C (68° F): 9.5

**Change in condition:**

**Flash point:** Not applicable

Melting point/Melting range: Not determined.

**Flammability (solid, gaseous):** Not determined

Boiling point/Boiling range: 100° C (212° F)

**Ignition temperature:**

**Auto igniting:** Product is not self igniting.

Decomposition temperature: Not determined.

**Danger of explosion:** Product does not present an explosion hazard.

**Explosion limits:**

Lower: Not determined

Upper: Not determined

**Vapor pressure:** Not applicable

**Relative density:** Not determined

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<b>Density:</b> Not determined	<b>Vapor density:</b> Not applicable
<b>Evaporation rate:</b> Not applicable	
<b>Solubility in / Miscibility with Water:</b> Completely	
<b>Partition coefficient (n-octanol/water):</b> Not determined	
<b>Viscosity:</b>	
<b>Dynamic:</b> Not applicable	<b>Kinematic:</b> Not applicable
<b>Solvent content:</b>	<b>Specific Gravity (H2)=1:</b> 1.04 ± 0.02
<b>Organic solvents:</b> 0.0%	<b>Other information:</b> No further relevant information available.

**SECTION 10 – STABILITY AND REACTIVITY**

**Reactivity:** No further relevant information available.

**Chemical stability:** Product is stable under normal conditions.

**Thermal decomposition / conditions to be avoided:**

Carbon dioxide and carbon monoxide may form when heated to decomposition.

**Conditions to avoid:**

Avoid strong oxidizing agents, aluminum, heat, moisture and other incompatible materials as stated above.

**Incompatible materials:**

Avoid oxidizing agents and acids. Avoid contact with bare aluminum. Flammable hydrogen gas may be produced in contact with bare aluminum. Sodium carbonate reacts with fluorine, aluminum, phosphorous pentoxide, sulfuric acid, zinc, lithium, moisture, calcium hydroxide and 2,4,6-trinitrotoluene and reacts violently with acid to form carbon dioxide.

**Hazardous decomposition products:**

Carbon dioxide and carbon monoxide may form when heated to decomposition.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

Information on toxicological effects

**Acute toxicity**

**LD/LC50 values that are relevant for classification**

Secondary alcohol ethoxylate (CAS: 84133-50-6)

LD50 oral rate 3120 mg/kg (rat)

LD50 dermal rate >2000 mg/kg (rabbit)

Sodium tripolyphosphate (CAS: 7758-29-4)

LD50 oral rate 3900 mg/kg (rat)

LD50 dermal rate 4600 mg/kg (rabbit)

**Primary irritant effect:**

**On the skin:** Irritant to skin and mucous membranes.

**On the eye:** Strong irritant with the danger of severe eye injury.

**Sensitization:** Sensitization possible through skin contact.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

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Harmful	(Continued of page 6)
Irritant	
Carcinogenic categories	
<i>IARC (International Agency for Research on Cancer)</i>	
None of the ingredients is listed.	
<i>NTP (National Toxicology Program)</i>	
None of the ingredients is listed.	
<i>OSHA-Ca (Occupational Safety &amp; Health Administration)</i>	
None of the ingredients is listed.	

**SECTION 12 – ECOLOGICAL INFORMATION**

<b>Toxicity</b>	
<i>Aquatic toxicity:</i>	Moderately toxic to aquatic life
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
<i>Additional ecological information:</i>	
<i>General notes:</i>	
Water hazard class 2 (Self-assessment):	Slightly hazardous for water
Do not allow product to reach ground water, water course or sewage system.	
Danger to drinking water if even small quantities leak into the ground.	
<i>Results of PBT and vPvB assessment</i>	
PBT:	Not applicable
vPvB:	Not applicable
Other adverse effects	No further relevant information available.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

<b>Waste disposal methods</b>	
Waste disposal recommendation	Observe all federal, state and local environmental regulations when disposing of this material.
	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Un-cleaned packaging:	
Recommendation:	Disposal must be made according to official regulations.
Recommended cleansing agent:	Water, if necessary with cleansing agents.


**SECTION 14 – TRANSPORT INFORMATION**

<i>UN-Number</i>	
<i>DOT, ADR, ADN, IMDG, IATA</i>	Non-Regulated Material
<i>UN proper shipping name</i>	

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DOT, ADR, ADN, IMDG, IATA Transport hazard class(es)	Non-Regulated Material	(Continued of page 7)
DOT, ADR, ADN, IMDG, IATA Class	Non-Regulated Material	
Packing group		
DOT, ADR, IMDG, IATA Environmental hazards:	Non-Regulated Material	
Marine pollutant:	No	
Special precautions for user	Not applicable	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable	
UN "Model Regulation":	-	

SECTION 15 – REGULATORY INFORMATION	
Safety, health and environmental regulations/legislation specific for the substance or mixture	
Sara	
<i>Section 355 (extremely hazardous substances):</i> None of the ingredients is listed.	
<i>Section 313 (Specific toxic chemical listings):</i> None of the ingredients is listed.	
<i>TSCA (Toxic Substances Control Act):</i> All Ingredients are listed.	
<i>Proposition 65</i>	
Chemicals known to cause cancer:	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females:	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males:	None of the ingredients is listed.
Chemicals known to cause developmental toxicity:	None of the ingredients is listed.
<i>Carcinogenic categories</i>	
EPA (Environmental Protection Agency)	None of the ingredients is listed.
TLV (Threshold Limit Value established by ACGIH)	None of the ingredients is listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the ingredients is listed.
GHS label elements	The product is classified and labeled according to the Global Harmonized System (GHS).
<i>Hazard pictograms</i>	
	
GHS07	



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Signal word: Warning

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**Hazard-determining components of labeling:**

**Hazard statements**

- Harmful if swallowed.
- Causes skin irritation.
- Causes eye irritation and redness.
- May cause respiratory irritation.

**Precautionary statements**

- Avoid breathing fume/gas/mist/vapors/spray.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Specific treatment (see on this label).
- Take off contaminated clothing and wash before reuse.
- Wash contaminated clothing before reuse.
- If skin irritation or rash occurs: Get medical advice/attention.
- IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- IF ON SKIN: Wash with plenty of water.
- Immediately call a POISON CENTER/doctor.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

**National Regulations**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

**State Right to Know**

CAS No.	Description	% Range	Hazard Classification
CAS: 7732-18-5	Water	60-95%	Hazard Classification: None Risk Phrases: None
CAS: 84133-50-6	Secondary alcohol ethoxylate	5-10%	⚠ Skin Irrit. 2, H315
CAS: 7758-29-4	Sodium tripolyphosphate	1-5%	⚠ Skin Irrit. 2, H315 ⚠ Eye Irrit. 2, H319

**Additional information:**

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**SECTION 16 – OTHER INFORMATION**

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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IMDG:	International Maritime Code for Dangerous Goods	(Continued of page 9)
DOT:	US Department of Transportation	
IATA:	International Air Transport Association	
CAS:	Chemical Abstracts Service (division of the American Chemical Society)	
NFPA:	National Fire Protection Association (USA)	
HMIS:	Hazardous Materials Identification System (USA)	
LC50:	Lethal concentration, 50 percent	
LD50:	Lethal dose, 50 percent	

Revision Summary Replaces Rev 4 issued on 03-December-2012. Complies with GHS OSHA requirements.

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