

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: General Purpose Cleaner - Liquid

Product Number: DP5400

Contact:

MIDMARK CORPORATION
60 VISTA DRIVE
WILMINGTON, DEL. 19804

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



Corrosion

Causes serious eye damage.



Harmful if swallowed.

Causes skin irritation.

May cause an allergic reaction.

Label elements

GHS label elements

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

Hazard pictograms



GHS05



GHS07

Signal word: Danger

(Continued of page 1)

Hazard-determining components of labeling:

Tetrasodium ethylenediaminetetraacetate
Sodium lauryl sulfate

Hazard statements

Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.
May cause an allergic skin reaction.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.

Response

Specific treatment (see on this label).
Take off contaminated clothing and wash before reuse.
IF ON SKIN: Wash with plenty of water.
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
IF SWALLOWED: Call a POISON CENTER/doctor if feel unwell. Rinse mouth
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/doctor.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if feel unwell.

Disposal

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.

Dangerous Components:

CAS No.	Description	% Range	GHS-US classification
CAS: 7732-18-5	Water	60-90%	Hazard Classification: None Risk Phrase: None
CAS: 7758-29-4	Pentasodium triphosphate	5-10%	⚠ Skin Irrit. 2, H315 ⚠ Eye Irrit. 2, H319
CAS: 64-02-8	Tetrasodium ethylenediaminetetraacetate	1-5%	⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302
CAS: 497-19-8	Sodium carbonate	<1%	⚠ Eye Irrit. 2, H319
CAS: NA	Surfactants	<1%	⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319
CAS: 151-21-3	Sodium lauryl sulfate	<1%	⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335

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 accident.

After inhalation:

If having difficulty breathing, supply fresh air and contact emergency personnel immediately.

In case of unconsciousness, place patient securely on side position for transportation.

After skin contact:

Remove contaminated clothing. Wash clothing before reuse.

Immediately wash with water 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. Remove contact lenses after the first 5 minutes.

Seek medical treatment preferably from an ophthalmologist.

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

Any additional important symptoms and effects are described in section 11.

Information for doctor:

Refer to component in section 2

Indication of any immediate medical attention and special treatment needed

Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5 - FIRE-FIGHTING INFORMATION

Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

No further relevant information available.

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.

SECTION 7 - HANDLING AND STORAGE

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 treating 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): 15 mg/m³ (total dust); 5 mg/m³ (resp fraction)

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:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Protection of hands:



Protective Gloves

The glove material must 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 must 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 sealed 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: Blue
Odor: No significant odor
Odor threshold: Not determined
pH-value @ 20° C (68° F): 9.5

Change in condition:

Melting point/Melting range: Not determined.
Boiling point/Boiling range: 101° C (214° F)

Flash point: Not applicable

Flammability (solid, gaseous): Not determined

Ignition temperature:

Decomposition temperature: Not determined.

Auto igniting: Product is not self-igniting.

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

Density: Not determined

Vapor density Not applicable

Evaporation rate Not applicable

Solubility in / Miscibility with Water: <10%

Partition coefficient (n-octanol/water): Not determined

Viscosity:

Dynamic: Not applicable

Kinematic: Not applicable

Solvent content:

Organic solvents: 0.0%

Specific Gravity (H2)=1: 1.03 ± 0.03

Other information 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, acids and bases. 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:

Sulfur dioxide, 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	
Pentasodium triphosphate (CAS: 7758-29-4)	
LD50 dermal rate	>7940 mg/kg (rabbit)
LD50 oral rate	3900 mg/kg (rat)
Tetrasodium ethylenediaminetetraacetate (CAS: 64-02-8)	
LD50 dermal rate	>2000 mg/kg (rabbit)
LD50 oral rate	2800 mg/kg (rat)
Sodium carbonate (CAS: 497-19-8)	
LD50 dermal rate	No information available
LD50 oral rate	>5000 mg/kg (rat)
Surfactants	
LD50 dermal rate	>2000 mg/kg (rabbit)
LD50 oral rate	1080-1980 mg/kg (rat)
Sodium lauryl sulfate (CAS: 151-21-3)	
LD50 dermal rate	>2000 mg/kg (rabbit)
LD50 oral rate	1200 mg/kg (rat)
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: Harmful, irritant	
Carcinogenic categories	
IARC (International Agency for Research on Cancer)	
None of the ingredients is listed.	
NTP (National Toxicology Program)	
None of the ingredients is listed.	
OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

SECTION 12 – ECOLOGICAL INFORMATION**Toxicity**

Aquatic toxicity:	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.

Additional ecological information:**General notes:**

Water hazard class 2 (Self-assessment): 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.

Results of PBT and vPvB assessment

PBT:	Not applicable
vPvB:	Not applicable
Other adverse effects	No further relevant information available.

SECTION 13 – DISPOSAL CONSIDERATIONS**Waste disposal methods**

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*DOT, IMDG, IATA*

<i>UN-Number</i>	UN 3077
<i>UN proper shipping name</i>	Environmentally Hazardous Substance, Solid
<i>Transport hazard class</i>	
<i>Class</i>	9
<i>Subsidiary risk</i>	-
<i>Packing group</i>	III
<i>Environmental hazards</i>	Marine Pollutant

SECTION 15 – REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture****Sara****Sections 311 and 312 (EPCRA)**

Yes - Acute Health Hazard

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

CAS: 7758-29-4

Pentasodium triphosphate

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TSCA (Toxic Substances Control Act):

CAS: 64-02-8

Tetrasodium ethylenediaminetetraacetate

CAS: 151-21-3

Sodium lauryl sulfate

Proposition 65

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.

Carcinogenic categories

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).

Hazard pictograms



GHS05



GHS07

Signal word: Danger

Hazard-determining components of labeling:

Tetrasodium ethylenediaminetetraacetate

Sodium lauryl sulfate

Hazard statements

Harmful if swallowed.

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or well-ventilated area.

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

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Response

Specific treatment (see on this label).

Take off contaminated clothing and wash before reuse.

IF ON SKIN: Wash with plenty of water.

If skin irritation occurs: Get medical advice/attention.

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

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

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/doctor.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if feel unwell.

Disposal

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.

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)
IMDG:	International Maritime Code for Dangerous Goods
DOT:	US Department of Transportation
IATA:	International Air Transport Association
ACGIH:	American Conference of Governmental Industrial Hygienists
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
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
Acute Tox. 4:	Acute toxicity, Hazard Category 4
Skin Irrit. 2:	Skin corrosion/irritation
Eye Dam. 1:	Serious eye damage/eye irritation
Eye Irrit. 2:	Serious eye damage/eye irritation
Eye Irrit. 2A:	Serious eye damage/eye irritation
Skin Sens. 1:	Sensitization - Skin
STOT SE 3:	Specific target organ toxicity - Single exposure

Revision Summary Replaces Rev 5 issued on 08-September-2014. Complies with GHS OSHA requirements.

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