

1. PRODUCT AND COMPANY IDENTIFICATION**1.1 Product identifiers**

Product name : Cassette Shrink Bands

Product Number : 225-25, 225-25A, 225-2503, 225-2503A, 225-2504, 225-2504A, 225-2507, 225-2507A, 225-2508, 225-2508A, 225-2509, 225-2509A, 225-2510, 225-2514, 225-2515A

Brand : SKC Inc.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Manufacture of cassettes

1.3 Details of the supplier of the safety data sheet

Company : SKC, Inc.
863 Valley View Rd.
Eighty Four, PA 15330
USA

Telephone : 724-941-9701; 800-752-8472 (Mon - Fri, 8:30 a.m. - 5:00 p.m. EST)

Fax : 724-941-1369 (Mon-Fri, 8:30 a.m. - 5:00 p.m. EST)

1.4 Emergency telephone number

Emergency Phone # : CHEMTREC at 800-424-9300 (U.S./Canada); 703-741-5970 (Global)

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****CLP Classification – Regulation (EC) No 1272/2008****Physical hazards**

Based on available data, the classification criteria are not met.

Health hazards

Acute oral toxicity : Category 3 (H301)
Skin Corrosion/Irritation : Category 1 C (H314)
Serious Eye Damage/Eye Irritation : Category 1 (H318)

Environmental hazards

Acute aquatic toxicity : Category 1 (H400)

For the full text of the H-Statements mentioned in this section, see section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)	
H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H400	Very toxic to aquatic life
Precautionary statement(s)	
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P273	Avoid release to the environment.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous components

Component	CAS-No	Weight %	CLP Classification – Regulation (EC) No 1272/2008
Water	7732-18-5	86.9	
Glycerin	56-81-5	12.9	
Benzethonium chloride	121-54-0	< 1	Acute Tox. 3 (H301) Skin Corr. 1C (H314) Eye Dam. 1 (H318) Aquatic Acute 1 (H400)
Sodium phosphate, dibasic	7558-79-4	< 1	

For the full text of the H-Statements mentioned in this section, see section 16.

3.2 **Important Note:** As required by OSHA regulations, hazardous information supplied is based on exposure to reagent-grade (full-strength) chemicals. Gel Band Solution contains a dilute solution of water; benzethonium chloride; sodium phosphate, dibasic; and glycerin.

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled

Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If not breathing, give artificial respiration.

In case of skin contact

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

In case of eye contact

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

If swallowed

Do not induce vomiting. Call a physician or Poison Control Center Immediately.

Protection of first-aiders

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

4.3 Notes to Physician

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which must not be used for safety reasons

No information available

5.2 Special hazards arising from the substance or mixture

Corrosive Material

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Do not allow run-off from firefighting to enter drains or water courses.

Hazardous combustion products

Hydrogen chloride gas, nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂), sodium oxides of phosphorous

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. *For personal protection, see section 8.*

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate groundwater system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

6.4 Reference to other sections

Refer to protective measures listed in sections 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Use only under a chemical fume hood. Wear personal protective equipment. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not breathe vapors/dust. Do not ingest. *For precautions, see section 2.2.*

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink, and animal feeding stuffs. Do not eat, drink, or smoke when using this product. Remove and wash contaminated clothing before reuse. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry and well-ventilated place. Corrosives area.

7.3 Specific end use(s)

Used in laboratories.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values established by the region specific regulatory bodies.

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

8.2 Exposure controls

Appropriate engineering controls

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimize release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

Personal protective equipment

Eye/face protection

Safety glasses

Hand protection

Protective gloves

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.

Control of environmental exposure

Prevent product from entering drains. Do not allow material to contaminate groundwater system. Local authorities should be advised if significant spillages cannot be contained.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Clear	
b) Physical state	Liquid	
c) Odor	No data available	
d) Odor threshold	No data available	
e) pH	No data available	
f) Melting point/freezing point	No data available	
g) Softening point	No data available	
h) Initial boiling point and boiling range	No data available	
i) Flash point	No data available	Method – No information available
j) Evaporation rate	Not applicable	
k) Flammability (solid, gas)	No data available	
l) Upper/lower flammability or explosive limits	No data available	
m) Vapor pressure	No data available	
n) Vapor density	Not applicable	
o) Specific gravity/density	No data available	
p) Bulk density	No data available	

q) Relative density	No data available
r) Water solubility	No data available
s) Solubility in other solvents	No data available
t) Partition coefficient: n-octanol/water	No data available
u) Auto-ignition temperature	Not applicable
v) Decomposition temperature	No data available
w) Viscosity	Not applicable
x) Explosive properties	No data available
y) Oxidizing properties	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

Unknown

10.2 Chemical stability

Unknown

10.3 Possibility of hazardous reactions

Hazardous polymerization

No data available

Hazardous reactions

No data available

10.4 Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat. Exposure to moisture.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Hydrogen chloride gas, nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂), sodium oxides of phosphorous

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzethonium chloride	295 mg/kg (Rat)	Not listed	Not listed
Sodium phosphate, dibasic	17 g/kg (Rat)	Not listed	Not listed
Glycerin	Not listed as a carcinogen		

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Target organs

None known

Aspiration hazard

Not applicable

Solid

Other adverse effects

The toxicological properties have not been fully investigated.

Symptoms/effects, both acute and delayed

Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

12. ECOLOGICAL INFORMATION**12.1 Ecotoxicity**

Very toxic to aquatic organisms. The product contains following substances which are hazardous to the environment.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Benzethonium chloride	LC50 = 1.15 mg/L/96 h (Oncorhynchus/mykiss)	EC50: 0.220 mg/L/48 h	-	-

12.2 Persistence and degradability

Not readily biodegradable.

Soluble in water, persistence is unlikely, based on information available.

Contains substances known to be hazardous to the environment or not degradable in wastewater treatment plants.

12.3 Mobility in soil

The product is water soluble and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.

12.4 Results of PBT and vPvB assessment

Not available for assessment

12.5 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Waste from residues/unused products**

Should not be released into the environment. Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated packaging

Dispose of this container to hazardous or special waste collection point.

Other information

Do not dispose of waste into sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Large amounts will affect pH and harm aquatic organisms. Do not let this chemical enter the environment.

14. TRANSPORT INFORMATION**IMDG/IMO**

UN No. UN2923
UN proper shipping name Corrosive solid, toxic, n.o.s
Transport hazard classes 8
Subsidiary Hazard Class 6.1
Packing group III

ADR

UN No. UN2923
UN proper shipping name Corrosive solid, toxic, n.o.s
Transport hazard classes 8
Subsidiary Hazard Class 6.1
Packing group III

IATA

UN No. UN2923
UN proper shipping name Corrosive solid, toxic, n.o.s
Transport hazard classes 8
Subsidiary Hazard Class 6.1
Packing group III
Environmental hazards Dangerous for the environment
Product is a marine pollutant according to the criteria set by IMDG/IMO
Special precautions for user No special precautions required
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable, packaged goods

15. REGULATORY INFORMATION

All of the components in the product are on the following inventory lists: X = listed

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Benzethonium chloride	204-479-9	-	-	X	X	-	X	X	X	X	X
Sodium phosphate, dibasic	231-448-7	-	-	X	X	-	X	X	X	X	X
Glycerin				Active							

Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H400	Very toxic to aquatic life

CAS - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

TWA - Time Weighted Average

ACGIH - American Conference of Governmental Industrial Hygienists

IARC - International Agency for Research on Cancer

DNEL - Derived No Effect Level

PNEC - Predicted No Effect Concentration

RPE - Respiratory Protective Equipment

LD50 - Lethal Dose 50%

LC50 - Lethal Concentration 50%

EC50 - Effective Concentration 50%

NOEC - No Observed Effect Concentration

POW - Partition coefficient Octanol:Water

PBT - Persistent, Bioaccumulative, Toxic

vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

MARPOL - International Convention for the Prevention of Pollution from Ships

OECD - Organisation for Economic Co-operation and Development

ATE - Acute Toxicity Estimate

BCF - Bioconcentration factor

VOC - Volatile Organic Compounds

Key literature references and sources for data

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Disclaimer

For approved uses only. Not for drug, household, or other uses.

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. SKC Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

Creation Date: August 8, 2022