healthmark
INDUSTRIES CO.
health care products
800-521-6224
www.hmark.com

Product SDS

***Reference date: 12/3/09* Revision date: 7/30/14**

01. Identification of the substance/mixture and of the company

Product name: Snap Locks

Code number(s): 7525 BLUE, 7525 GREEN, 7525 RED, 8050 BLUE, 8050 GREEN, 8050 RED, 8050 YELLOW

Purpose of product: Provides tamper evidence and is breakable by hand.

Manufacturer/supplier: Healthmark Industries Co.

Address18600 Malyn Blvd. / Fraser, MI 48026

Telephone/Fax/Email: (800) 521-6224 / (586) 491-2113 / healthmark@hmark.com

Emergency telephone number: (800) 424-9300 (24-hour service)

02. Hazards identifications

Classification of the substance or mixture: Celcon M90T CF2001 Natural (acetyl copolymer, polyoxymethylene copolymer)

Adverse environmental and human health effects: Dust from this product can form an explosive organic dust cloud. Spilled pellets may present a slipping hazard. Formaldehyde, which is a degradation product, is listed as a potential cancer hazard by OSHA, a known human carcinogen by The International Agency for Research on Cancer (IARC, Group 1), and a substance which can reasonably be anticipated to be a carcinogen by The National Testing Program (NTP). Formaldehyde should not pose a risk if exposures are kept below the OSHA Permissible Exposure Limit.

Inhalation: Overheating in processing may generate hazardous, irritating vapors. Dust irritating to the respiratory tract.
Skin: Polymer particles may cause mechanical irritation. The molten product can cause serious burns.
Eyes: Resin particles, like other inert materials, are mechanically irritating to the eyes.
Ingestion: Low toxicity by this route is expected based on the biological activity of high molecular weight polymers.

03. Composition/information on ingredients

Description of the mixture:

Component	CAS #	Percent (%)
1,3,5-Trioxane, polymer with 1,3-dioxolane	24969-26-4	
Formaldehyde	50-00-0	Trace level contaminant

Hazardous ingredients: This product may contain proprietary ingredients. This is a polymeric material. Any hazardous constituents are wetted by the polymer system, and therefore are unlikely to present exposure under normal conditions of processing and handling.

04. First aid measures

General information: N/A

Following inhalation: Move to fresh air in case of accidental inhalation of vapors. Get medical attention immediately if symptoms occur.

Following skin contact: Cool skin rapidly with cold water after contact with molten polymer. Immediate medical attention is required. Do not peel solidified product off the skin.

Following eye contact: Immediately flush eye(s) with plenty of water. Call a physician if irritation persists.

Following ingestion: If swallowed, do not induce vomiting - seek medical advice.

Notes for the doctor: This product is essentially inert and nontoxic. However, if it is overheated or burns, gases such as carbon monoxide and formaldehyde may be released. Those exposed to off-gases may need to have their arterial blood gases and carboxyhemoglobin levels checked. If the carboxyhemoglobin levels are normal and the exposure occurred in an enclosed space, asphyxia (carbon dioxide replacing oxygen) is a possibility. Formaldehyde is a respiratory irritant gas. If patients may have inhaled high concentrations of irritating fumes, they should be monitored for delayed onset pulmonary edema.

05. Firefighting measures

Suitable extinguishing media: Water, foam, dry powder, dry chemical, solid extinguishing agent

Unsuitable extinguishing media: N/A

Special hazards arising from the substance and combustion products: Carbon monoxide, carbon dioxide, formaldehyde vapors, hazardous combustion products

Advice for firefighters: Wear a self-contained breathing apparatus and a protective suit.

06. Accidental release measures

General information: Remove all sources of ignition. Avoid dust formation.

Environmental precautions: None required

Additional information: Use mechanical handling equipment. Dispose of in accordance with local regulations.

07. Handling and storage

Precautions for safe handing: Do not handle hot or molten material without appropriate protective equipment. Maintain good housekeeping in work areas. Do not exceed recommended process temperatures to minimize release of decomposition products. Do not smoke in areas where polymer dust is present. Appropriate measures should be taken to control the generation and accumulation of dust during conveying and processing operations.

Fire Preventions: N/A

Technical measures and storage conditions: Store in a cool dry place. Maintain dryness of resin.

08. Exposure controls/personal protection

Control parameters:
OSHA Exposure Limits:

Component	TWA
Formaldehyde	0.75 PPM
Respirable dust	5 mg/m^3
Total dust	15 mg/m^3

ACGIH Exposure Limits:

Component	TWA
Respirable dust	3 mg/m^3
Total dust	10 mg/m^3
	Ceiling Limit Value
Formaldehyde	0.3 PPM
	Manufacturer Workplace Exposure Limit
Formaldehyde	0.75 PPM (TWA), 2 PPM (STEL)

Personal protective equipment: When thermal or melt processing, wear long pants, long sleeves, well insulated gloves, and face shield when there is a chance of contact.

Hand protection: Well insulated gloves when thermal or melt processing.

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment.

Eye protection: Safety goggles/glasses with side-shields.

Advice on general occupational hygiene: N/A

Environmental exposure controls: N/A

09. Physical and chemical properties

Appearance: Pellets

Physical state: Solid

Color: Various

Odor: Slight, specific

Safety relevant basic data: N/A

Explosion hazard: N/A

Density: ~1.4-1.8g/mL at 20°C

pH: N/A

Initial boiling point/range: ºC /ºF N/A

Solubility: Insoluble in water

Flash point: >93ºC />200ºF

Ignition temperature: 320ºC /608ºF

Melting point: 164ºC

Conditions to avoid: Flame. Do not allow mixing of this material with PVC, other halogen containing materials, and partially and/or fully crosslink able thermoplastic elastomers. Recommended melt temperatures 360-390°F (182-199°C). Avoid prolonged heating at or above the recommended processing temperature. Do not heat above 460°F (238°C).

Incompatible materials: Polyvinyl chloride, strong acids, oxidizing agents.

10. Stability and reactivity

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Incompatible materials: Polyvinyl chloride, strong acids, oxidizing agents.

Hazardous decomposition products: Trioxane, formaldehyde, paraformaldehyde, formic acid.

11. Toxicological information

Information on toxicological effects: N/A

Irritation: N/A

Sensitization: N/A

Inhalation: N/A

Practical experiences: N/A

Ingredient: N/A

12. Ecological information

Terrestrial toxicity: The effects of resin pellets on the wildlife that may ingest them is not well understood. In the case of seabirds, some marine biologists believe that the fowl may not be able to pass plastic pellets through their digestive tracts. Thus, large quantities of ingested pellets may cause intestinal blockage, false feelings of satiation or reduction in absorption of nutrients, causing malnutrition and starvation.

Aquatic toxicity: N/A

Mobility: N/A

Persistence and degradability: This material is considered to be non-biodegradable.

Bio accumulative potential: N/A

Results of PBT and vPvB assessment: N/A

Other adverse effects: N/A

13. Disposal considerations

Product: Please refer to applicable local, state, and federal regulations.

Contaminated packaging: N/A

Uncontaminated packaging: N/A

14. Transport information

UN-No: N/A

Proper shipping name: N/A

Classification code: N/A

Packing group: N/A

Hazard label: N/A

15. Regulatory information

Material safety evaluation:
TSCA Inventory: This product complies with U.S. Toxic Substance Control Act (TSCA).

SARA 313 Chemicals: Contains no substances at or above the reporting threshold under Section 313.
Canadian regulations:
WHMIS Classification: Not a WHMIS controlled product.

WHMIS Ingredient Disclosure List: This product does not contain substances required to be disclosed according to the Canada WHMIS Ingredient Disclosure List.

Regulation on combustible liquids: N/A

Class according 2009/104/EG (BetrSichV): N/A

Water hazard class: N/A

Storage according TRGS 510 (Storage of hazardous substances in non-stationary containers): N/A

16. Other information

Recommended application:

Relevant R-, H-, and EUH-phrases:

The information supplied in this Safety Data Sheet is designed only as a guidance for the safe use, storage, and handling of the product. This information is correct to the best of our knowledge and beliefs at the date of the publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other processes.